



Sardar Patel Institute of Technology
Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-
400058, India
(Autonomous College Affiliated to University of Mumbai)

2.1 Academic Flexibility

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Bhartiya Vidya Bhavan's
Sardar Patel Institute of Technology
(Autonomous Institution permanently affiliated to Mumbai University)

Agenda

of

9th Academic Council Meeting
(virtual mode)
on
27th July 2023 at 3.00 P.M.



11/11/2023



Preamble:

SP-IT was conferred with autonomous status by UGC, GOM, and Mumbai University in 2017. At the time of implementation, a decision was taken to start with an autonomous curriculum for the first year and second year. This new curriculum was of 188-194 credits. SP-IT graduated its first autonomous branch in July 2020. The academic structures of UG/PG programs were changed to accommodate the 6 months industry internship and few other initiatives. This academic structure was modified in 2019 to implement the AICTE's new Model curriculum of 160 credits. It was restructured in A.Y. 2020 for its enrichment and student's convenience with additional flexibility and a choice-based approach and targeting implementation of few suggestions from the NEP draft document.

With the approval of AICTE, SP-IT has initiated the merger of Computer and Information Technology to Computer Engineering with an intake of 120. Similarly, the merger of Electronics and Electronics & Telecommunication to Telecommunication Engineering with intake of 120. Admissions are done w.e.f. A.Y. 2021-22. By then we had started two new programs: 1) Computer Science and Engineering with specialization in Artificial Intelligence and Machine Learning (CSE-AIML) and 2) Computer Science and Engineering with specialization in Data Science (CSE-DS) with the intake of 60 each. This year We have got the approval for increase in intake of Computer Engineering to 240. We have stopped branches with specialization in AIML and DS and started it as CSE with 120 intake.



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Agenda of 9th AC meeting

1. Confirmation of minutes of the 8th AC meeting held on 3rd February 2023.

The important points discussed in the 8th meeting include the academic plan and evaluation policy for A.Y. 2022-23, approval (Ratification) for a few amendments in the academic structure, approval for a few amendments in the Attendance and Examination Rules, approval to apply for Integrated M. Tech. (EXTC.), approval for Academic Rules and Regulations at SP-IT, etc. A separate file of the minutes is attached as Annexure A. Esteemed members of Academic council are requested to approve the same.

2. Approval (Ratification) for a few amendments in the academic structure (2020-24 batch)

As per the curriculum (2020), we had mentioned the Community Project of 2 credits after the First Year. But we could not conduct it for the batches during the pandemic and had to cancel it. Thus, the credit requirement was not satisfied. Hence from 2021-22 batch onwards the requirement is fulfilled by making it of 160 credits.

For B.Tech. Electronics & Telecommunication,

1. In Sem V, Java Programming / Internet of Things is introduced which is a prerequisite for VLSI and Embedded track.
2. In Sem VI, Fundamentals of Antenna / Fundamentals of Power Electronics is introduced which is a prerequisite for Power Electronics track.
3. In Sem VI: Main-Project Stage I with 3 credits is added instead of Mini Project-II: Here students who are not doing any research internship can begin with Main-Project Stage -I
4. In Sem VII, these students who have completed Main-Project Stage-I can complete Main-

3





[9th ACM Agenda-270723]

- Project Stage-II, and students joining directly Sem 7 can begin with Main-Project Stage 1.
5. Mobile and Wireless communication, a 3 credit one Program core course is introduced in Sem VII.
 6. The minor changes in the syllabus of Internet of Things Laboratory, Analog and Digital Communication, Information theory and Coding and Space Communication technologies are approved.

For B.Tech. Computer Engineering,

1. In Sem VI: Main-Project Stage I with 3 credits is added instead of Mini Project-II: Here students who are not doing any research internship can begin with Main-Project Stage -1
2. In Sem VII, these students who have completed Main-Project Stage-1 can complete Main-Project Stage-II, and students joining directly Sem 7 can begin with Main-Project Stage 1
3. Credit requirement is fulfilled by adding one core course in the 8th semester.

Esteemed members of Academic council are requested to ratify the same.

3. Approval for SPIT NEP Curriculum Structure

According to the GR of state government of Maharashtra (Higher and Technical Education) dated 4th July 2023 and of DTE Maharashtra, dated 19th July 2023, it is mandatory to implement the curriculum w.e.f. 2023-24 as per the NEP-2020 guidelines. We have adopted the guidelines to implement the curriculum from A.Y. 2023-24 and prepared the draft. The file containing the draft has been attached herewith. Esteemed members are requested to approve the same.

D. J. S

S. Chaudhary



Any other point of discussion with the permission of the chairman.

O.L.J

Sekhariaj





Reena Kumbhare <reena_kumbhare@spit.ac.in>

9th Academic Council Meeting of SPIT (Virtual)

Academics S.P.I.T. <academics@spit.ac.in> Wed, Jul 26, 2023 at 9:00 PM
 To: "DR. AVINASH GAJANAN KESKAR" <agkeskar@ece.vnit.ac.in>, nutan@cse.lltb.ac.in, Dr R S Pande <principal@rkneec.edu>, mssutaone.extc@coop.ac.in, hemadate@nille.ac.in, sudhakar.paulzagade@druva.com, Dr Faruk Kazi <fskazi@el.vjti.ac.in>, "Ainapure, Aniruddha R" <aniruddha.r.ainapure@jmchase.com>, "B.Satyana Rayana" <bsn@lifr.res.in>, anand.chitre@barclays.com, Reena Kumbhare <reena_kumbhare@spit.ac.in>, Prasenjit Bhavathankar <p_bhavathankar@spit.ac.in>, Dhananjay Kalbande <drkalbande@spit.ac.in>, Sukanya Kulkarni <sukanya_kulkarni@spit.ac.in>, vinod_sikka@spit.ac.in, Pallavi More <pallavi_more@spit.ac.in>, Rajendra Sutar <rajendra_sutar@spit.ac.in>, "Dr. Pooja Raundale" <pooja@spit.ac.in>, kallas_devadkar@spit.ac.in, aartimkarande@spit.ac.in, rita_das@spit.ac.in, deepak_karia@spit.ac.in, "Dr. Sudhir Dhage" <sudhir_dhage@spit.ac.in>, kiran.talele@spit.ac.in, Narendra Bhagat <narendra_bhagat@spit.ac.in>, rajendra.sawant@spit.ac.in, sujata_kulkarni@spit.ac.in, manish_parmar@spit.ac.in, Dayanand Ambawade <dd_ambawade@spit.ac.in>, Surekha Dholay <surekha_dholay@spit.ac.in>, Anand Godbole <anand_godbole@spit.ac.in>, Sparsh Vyas <sparsh.vyas@spit.ac.in>, eeshaan.asodekar@spit.ac.in, sara.sheth@spit.ac.in, shreya.shetty@spit.ac.in, vishal.padme@spit.ac.in, "Dr. B. N. Chaudhari" <bnc@spit.ac.in>

Dear Sir /Madam,

Greetings!!

We at SPIT have proposed the New Curriculum Structure as per the recommendations of NEP 2020. As per the GR of State Government dated 4th July 2023, It is mandatory to implement NEP curriculum with effect from Academic Year 2023-24. We need to discuss and finalize the draft. This is the main agenda of the Academic Council meeting scheduled on 27th July 2023 at 3 PM in virtual mode.

You are requested to attend the meeting at following link

meet.google.com/nwo-jras-ruj

Please find the attached files for the agenda of the meeting, minutes of 8th AC meeting and the SPIT NEP curriculum Structure 2023-24.

Dean Academics & Research,
 Sardar Patel Institute of Technology,
 Munshi Nagar, Bhavans Campus, Andheri (W), Mumbai-58
 2-26708520/2628 7250 (Ext: 380).
 Mob: 9820962670

3 attachments

- Minutes_8th_Academic_Council_3Feb2023.pdf
172K
- SPIT NEP Curriculum 23-24.pdf
208K
- Agenda 9th ACM.pdf
262K

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Minutes of the 8th Academic Council Meeting

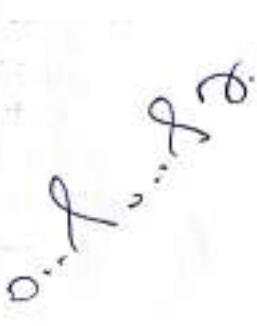
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|---|---|--------------|----------|
| Meeting Name: | 8 th Academic Council Meeting (Online) | | |
| Date of Meeting | 03/02/2023 | Time: | 11:30 AM |
| Place: | Online | | |
| Chairman | Dr. B. N. Chaudhari | | |
| Member Secretary | Dr. Y S Rao | | |
| Special Invitees and University Nominees | Dr. Uday Khedker (IIT Bombay) Dr. Hema Date (NITIE Mumbai) Dr. Faruk Kazi (VJTI, Mumbai) Dr. B. Satyanarayana (TIFR) Dr. Nutan Limaye (IIT, Bombay) Dr. A.G. Keskar (VNIT, Nagpur) Dr. M.S. Sutavane (COEP) Dr. Rajesh R. Pande (RKNEC, Nagpur) Mr. Anand Chitre (Barclays) Mr. Aniruddha Ainapure (JPMC) Mr. Sudhakar Paulzagade (Druva) | | |
| Student Representatives | Eeshan Asodekar (ETRX) Sara Sheth (EXTC) Aditya Motwani (COMP) Shreya Shetty (IT) Vishal Padme (MCA) | | |
| Head of the Departments | Dr. Reena S. Sonkusare Dr. Prasenjit Bhavathantkar Dr. D. R. Kalbande | | |
| Controller of Examinations | Dr. Sukannya Kulkarni | | |
| T.P.O. | Mr. Vinod Sikka | | |
| Registrar | Ms. Pallavi More | | |
| Faculty Representatives | Dr. R. G. Sutar Dr. Pooja Raundale Dr. K. K. Devadkar Dr. Aarti Karande | | |



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| | |
|---|--|
| Professors and Associate Professors | Dr. Rita Das Dr. D. C. Karia Dr. S. N. Dhage Prof. K. T. Talele Dr. N. A. Bhagat Dr. R. R. Sawant Dr. Sujata Kulkarni Prof. M. M. Parmar Prof. D. D. Ambawade Dr. Surekha Dholay Prof. A A Godbole |
| Minutes Prepared By: | Prof. Sparsh Vyas |
| <p>The Academic Council meeting was called via online mode on 3rd February 2023 at 11.30 a.m to discuss various issues related to SP-IT academics. Prof. Y.S. Rao, Dean-Academics, welcomed all the committee members and experts from across the country additionally, briefly discussed the VISION and MISSION, and presented the agenda of the meeting.</p> <p>Further, Prof. B. N. Chaudhari, Principal, explained the curriculum of 160 credits- UG Academics at SP-IT and the Dean briefed on the history of autonomy, the Programs offered at SP-IT – various credit courses, grading- absolute and relative, the education model, curriculum structure, and choice-based curriculum (128 credits) including mini project, major project, industry internship, SCOPE and MOOCS Courses.</p> | |




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Agenda 1: Confirmation of minutes of the 7th AC meeting held on 3rd September 2021

Matters Discussed:

- 1) Prof. Y.S. Rao, Dean- Academics briefed on the previous minutes.

Resolution:

- 1) All members confirmed the previous minutes of the meeting.

Agenda 2: Confirmation of Result Analysis and Placement Statistics

Matters Discussed:

- 1) Prof. Y.S. Rao, Dean- Academics shared information visually through the graph of result analysis and placement statistics, additionally also shared an average CGPA for each year.
- 2) Committee Member- Prof. Satyanarayan Bhesette observed and asked why we do not follow the analysis and distribution as flat distribution is not acceptable – this is a reason for not being able to follow an expected number and having a long bin of students failing.
- 3) Prof. (Dr.) R.S. Pande asked to explain the trend of placements. Prof. Y.S. Rao informed that the average CTC has increased.
- 4) Prof. Avinash Gajanan Keskar asked whether in the placement statistics we separate the core companies from the IT companies.
- 5) Prof. Y.S. Rao presented that student could opt for 6 months research internship (6th semester) at IIT-B and/or other IITs or industry internships (8th semester) additionally, students who wish to pursue higher education are given the option to complete their academics at the institute itself as they do not opt for internships.

Resolution:

- 1) Dr. Pooja Raundale shared the details as observed by the committee members for placement statistics displaying the trend of placements.
- 2) Prof. B.N. Chaudhuri, the Principal, explained that the social policies with reference to admitting students as greatly responsible for these statistics additionally also explained the relative grading on finalizing the SA Value that justifies the analysis and distribution. Prof. Satyanarayan Bhesette suggested following the analysis and distribution as explained in the beginning and asked to show statistics accordingly. Both, the Principal and Dean- Academics accepted the observation and confirmed to look and work on it.
- 3) Prof. Pande suggested that the placement statistics must be highlighted as student engagement as the list will make students opting for higher education visible, also presenting the data demographically will help in better presentation.
- 4) Prof. Keskar's suggestion was accepted, and Prof. Rao mentioned that we shall do it as per his suggestion.



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Agenda 3: Approval for Academic Plan (Academic Calendar) for the A.Y. 2022 – 2023

Matters Discussed:

- 1) Prof. Y.S. Rao presented the proposed Academic Calendar and evaluation policy for F.Y. B.Tech. and other even semesters.

Resolution:

- 1) All members approved the academic calendar and evaluation policy for the presently admitted students.

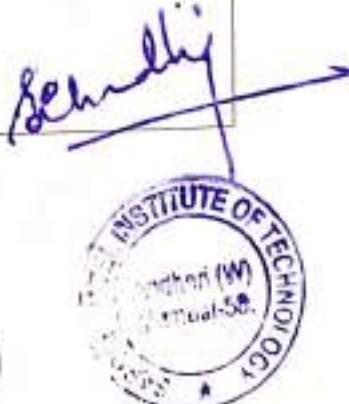
Agenda 4: Approval (Ratification) for a few amendments in the academic structure

Matters Discussed:

- 1) Prof. Y.S Rao highlighted that a skill-based course for 2 credits on Engineering Exploration was excluded from the course due to semesters commencing late from the last 3 years. Due to the pandemic, the semesters were compressed, so there was no space to conduct the summer term.
- 2) It was proposed with reference to the discussion with the industry personnel that an industry internship be approved to offer in the 8th semester (instead of the 6th) and a research internship will be approved to offer in the 6th semester (instead of the 8th) additionally, a student can choose in any case anyone internship from the two.
- 3) The SEVA/SATVA courses are now renamed to LLC (Life, Literature, and Culture) and were offered from Sem. I to Sem. VIII; but we propose a further batch (2023-2027) to include them between Sem. II to Sem. VII. The reason is first-year late admissions, revised curriculum, and 8th-semester industry internship so students will have 6 LLC courses instead of 8 LLC courses and acquire 6 credits as each semester the LLC course is for 1 credit. If a student is unable to complete the course due to reasons such as absence, performance in the evaluation, or fitness etc. he/she will be dropped from that course and will have to complete 2 courses in a subsequent semester. A student will be allowed to enrol in a maximum of 2 such courses in any such semester.

Resolution:

- 1) Academic Council members approved the same.
- 2) Academic Council members approved the change in the internship offered.
- 3) Academic Council members approved the changes in the LLC Courses.



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Agenda 5: Approval for a few amendments in the Attendance and Examination Rules

Matters Discussed:

- 1) Prof. Y.S. Rao proposed a relaxation of 25% in lab/tutorial and theory attendance with a pre-approval from the H.O.D. and a student with below 75% attendance will not be allowed to sit for the end-semester examination for that particular subject's theory and/or practical.
- 2) For students below 75% attendance, will have to appear for a re-examination after attending the extra session as remedial lectures are scheduled for them additionally, all students who will attempt the re-examination will have a grade penalty of one grade.
- 3) The Controller of examination, Dr. Sukanya Kulkarni proposed the 3rd attempt as a special examination apart from regular examination and re-examination to be conducted at the end of the academic year. It is mainly conducted for students who were engaged in malpractice during odd and even semester MSE/ESE by debarring them till the end of the academic year. Further, special examination will be an additional opportunity for those students who failed or remained absent in the End semester (Regular) Examination as well as Re-examination to be promoted to the next academic year of program without any backlog courses. This examination provides a extra chance to slow learners to complete the program in the stipulated 4 years and help avoid losing a term. All students will have a grade penalty of one grade and special examination fees needed to be paid.
- 4) Prof. Rao proposed the end-semester examination (ESE) as a separate passing head. The student needs to score a minimum passing mark of median/2 in ESE as well as a minimum passing mark of median/2 out of 100 in the total marks of all theory or laboratory courses so that ESE is taken seriously by students.
- 5) For specially abled students, the earlier grace marks rule of 3% of the total marks in a semester across all courses in the semester is increased to grace marks up to 5% of the total marks in a semester across all courses in the semester.

Resolution:

- 1) Principal B.N. Chaudhari suggested that lab attendance must be 100% and that teachers must arrange for extra sessions when students miss out or are absent from any practical lab course.
- 2) Prof. Keskar suggested that the defaulter students' mark sheets should show a second attempt as they are appearing for re-examination else, students might take advantage of the same.
- 3) Dr. B. Satyanarayana suggested that it is better to limit the examination to 1+1 and 1+1 in both semesters. It was internally declared that the terms of the special examination will be discussed again closely.
- 4) Dr. Satyanarayana shared his observation and suggested some minor changes in the same.

Sunday



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Agenda 6: Approval for the discontinuation of M. Tech (Comps.) and M. Tech. (EXTC.) Programs

Matters Discussed:

- 1) Prof. Rao explained that statistics and analysis of the PG Program and one of the main reasons for the closure of the program is the lack of student interest. Despite efforts taken to increase enrolment, the program has consistently had low enrolment numbers over the past few years. And it is no longer aligned with our institutional goals and is not generating enough enrolment or revenue to justify its continued operation.

Resolution:

- 1) Prof. R.S. Pande suggested that we can reduce the intake from 18 to 6 and continue the courses for a few more years; additionally, Prof. Keskar pointed out that we must continue the course and postpone our decision on discontinuation as suggested by Prof Pande as it is difficult to restart a course after its discontinuation.

Agenda 7: Approval to apply for Integrated M. Tech. (EXTC.)

Matters Discussed:

- 1) Prof. Rao proposed approval of the 4+1 integrated master's program as constituted by AICTE.

Resolution:

- 1) Academic Council members approved the same, and members also suggested planning for a domain-specific integrated program.

Agenda 8: Approval to apply for the autonomous status of Ph.D. programs at SP-IT

Matters Discussed:

- 1) It was proposed that we apply to our governing body for the autonomous status of Ph.D. programs.

Resolution:

- 1) Academic Council members unanimously approved the same.

Agenda 9: Approval for an increase in intake capacity of the MCA Program

Matters Discussed:

- 1) Prof. Rao proposed an increase in the intake from 60 to 120 students as the college has all the resources, infrastructure, and placements in place for the same.

Resolution:

- 1) Academic Council members approved the same.



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Agenda 10: Approval for Academic Rules and Regulations at SP-IT

Matters Discussed:

- 1) Prof. Rao mentioned that the academic rule book is published at the beginning of the academic year and is sent to all the academic council members and their suggestions on the same are welcomed over email.

Agenda 11: Approval for BoS member list (EXTC, Computer, CSE-AIML, CSE- DS, MCA)

Matters Discussed:

- 1) Prof. Rao shared the proposed list of subject experts nominated by the academic council for respective BoS members for two new programs CSE-AIML, CSE- DS with 60 intake additionally, for EXTC, Computer, MCA.

Resolution:

- 1) Academic Council members approved the same.

Agenda 12: Any other point of discussion with the permission of the chairman.

- 1) The chairman thanked the members for attending and providing their valuable insights and suggestions; and promised that all the suggestions and recommendations will be implemented in the best of spirits.

J. J. J.

Sekhdev





Agenda for 8th AC meeting on 3rd February 2023 at 11.30 a.m.

ramreddy Srinivasa Rao <cysrao@spit.ac.in>
: "Dr. B. N. Chaudhari" <bnc@spit.ac.in>, Reena Kumbhare <reena_kumbhare@spit.ac.in>, Sukanya Kulkarni
ukanya_kulkarni@spit.ac.in>, Rajendra Sutar <rajendra_sutar@spit.ac.in>, Prasenjit Bhavathankar <p_bhavathankar@spit.ac.in>,
ananjay Kalbande <drkalbande@spit.ac.in>, "Dr. Pooja Raundale" <pooja@spit.ac.in>, Rita Das <rita_das@spit.ac.in>, Sudhir
age <sudhir_dhage@spit.ac.in>, Kiran Talele <kiran.talele@spit.ac.in>
: "Academics S.P.I.T." <academics@spit.ac.in>

Wed, Feb 1, 2023 at 11:38 PM

Dear Sir/Madam,

Greetings from Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology!!!

Thank you for accepting our invitation to be a member of our Academic Council. I've attached the agenda for the 8th AC meeting scheduled on 3rd February 2023 from 11:30 am onwards in online mode.

Online meeting details are as follows:

<https://meet.google.com/wix-eyny-cyx?authuser=0&hs=122>

Re:

Dr. Y S Rao, PhD (ES-IIT-Bombay)
Vice-Principal,
Sardar Patel Institute of Technology,
Munshi Nagar, Bhavans Campus, Andheri (W), Mumbai-58
J22-26708520/2628 7250 (Ext: 380).
Mob: 9820962870
www.linkedin.com/in/dr-y-s-rao-4b22313c
Lecture Videos: <https://www.youtube.com/user/EMTRONTechnologies>

S.P.I.T. Vision

To build a renowned institute which will produce graduate engineers with global competency and social sensitivity.

Agenda of 8th ACM SP-IT.pdf
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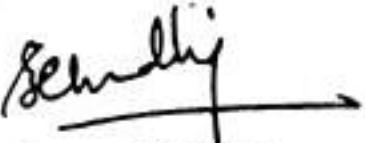
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Sudhir
Sardar Patel INSTITUTE OF TECHNOLOGY
Andheri (W)
Mumbai-58.

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Minutes of the 8th Academic Council Meeting

| | | | |
|---|---|--------------|----------|
| Meeting Name: | 8th Academic Council Meeting (Online) | | |
| Date of Meeting | 03/02/2023 | Time: | 11:30 AM |
| Place: | Online | | |
| Chairman | Dr. B. N. Chaudhari | | |
| Member Secretary | Dr. Y S Rao | | |
| Special Invitees and University Guests | Dr. Uday Khedker (IIT Bombay) Dr. Hema Date (NITIE Mumbai) Dr. Faruk Kazi (VJTI, Mumbai) Dr. B. Satyanarayana (TIFR) Dr. Nutan Limaye (IIT, Bombay) Dr. A.G. Keskar (VNIT, Nagpur) Dr. M.S. Sutavane (COEP) Dr. Rajesh R. Pande (RKNEC, Nagpur) Mr. Anand Chitre (Barclays) Mr. Aniruddha Ainapure (JPMC) Mr. Sudhakar Paulzagade (Druva) | | |
| Student Representatives | Eeshaan Asodekar (ETRX) Sara Sheth (EXTC) Aditya Motwani (COMP) Shreya Shetty (IT) Vishal Padme (MCA) | | |
| Head of the Departments | Dr. Reena S. Sonkusare Dr. Prasenjit Bhavathantkar Dr. D. R. Kalbande | | |
| Controller of Examinations | Dr. Sukannya Kulkarni | | |
| T.P.O. | Mr. Vinod Sikka | | |
| Registrar | Ms. Pallavi More | | |
| Faculty Representative | Dr. R. G. Sutar Dr. Pooja Raundale Dr. K. K. Devadkar Dr. Aarti Karande | | |


Principal
Sardar Patel Institute of Technology
Bhartiya Vidya Bhavan's Campus,
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Mumbai - 400 058.


DEAN
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| | |
|--|--|
| Professors and Associate Professors | Dr. Rita Das Dr. D. C. Karia Dr. S. N. Dhage Prof. K. T. Talele Dr. N. A. Bhagat Dr. R. R. Sawant Dr. Sujata Kulkarni Prof. M. M. Parmar Prof. D. D. Ambawade Dr. Surekha Dholay Prof. A A Godbole |
| Minutes Prepared By: | Prof. Sparsh Vyas |

The Academic Council meeting was called via online mode on 3rd February 2022 at 11.30 a.m to discuss various issues related to SP-IT academics. Prof. Y.S. Rao, Dean-Academics, welcomed all the committee members and experts from across the country additionally, briefly discussed the VISION and MISSION, and presented the agenda of the meeting.

Further, Prof. B. N. Chaudhari, Principal, explained the curriculum of 160 credits- UG Academics at SP-IT and the Dean briefed on the history of autonomy, the Programs offered at SP-IT – various credit courses, grading- absolute and relative, the education model, curricular structure, and choice-based curriculum (128 credits) including mini project, major project, industry internship, SCOPE and MOOCs Courses.

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SARDAR PATEL INSTITUTE OF TECHNOLOGY
 (Autonomous Institute Affiliated to University of Mumbai)
 Munshi Nagar, Andheri, Mumbai-400058

Agenda 1: Confirmation of minutes of the 7th AC meeting held on 3rd September 2021

Matters Discussed:

- 1) Prof. Y.S. Rao, Dean- Academics briefed on the previous minutes.

Resolution:

- 1) All members confirmed the previous minutes of the meeting

Agenda 2: Confirmation of Result Analysis and Placement Statistics

Matters Discussed:

- 1) Prof. Y.S. Rao, Dean- Academics shared information visually through the graph of result analysis and placement statistics, additionally also shared an average CGPA for each year.
- 2) Committee Member Prof. Satyanarayan Bhesette observed and asked why we do not follow the analysis and distribution as flat distribution is not acceptable – this is a reason for not being able to follow an expected number and having a long bin of students failing
- 3) Prof. Dr. V.S. Patil asked to explain the trend of placements. Prof. Y.S. Rao informed that average CTC has increased
- 4) Prof. Avinash Gajanan Keskar asked whether in the placements statistics we separate the core companies from the IT companies.
- 5) Prof. Y.S. Rao presented that students can opt for 6 months research internship (6th semester) at IIT-B and/or other IITs or industry internships (8th semester) additionally, students who wish to pursue higher education are given the option to complete their academics at the institution if they do not opt for internships

Resolution:

- 1) Dr. Pooya Rambaghi shared the details as observed by the committee members for placement statistics displaying the trend of placements.
- 2) Prof. B.N. Chaudhari, the Principal, explained that the social policies with reference to admitting students as greatly responsible for these statistics additionally also explained the relative grading in increasing the SA Value that justifies the analysis and distribution. Prof. Satyanarayan Bhesette suggested following the analysis and distribution as explained in the beginning and asked to share statistics accordingly. Both, the Principal and Dean- Academics accepted the suggestion and confirmed to look and work on it.
- 3) Prof. Y.S. Rao suggested that the placement statistics must be highlighted as student engagement as this will make students opting for higher education visible, also presenting the data graphically will help in better presentation.
- 4) Prof. Avinash Keskar's suggestion was accepted and Prof. Rao mentioned that we shall do it as per his suggestion.

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Agenda 3: Approval for Academic Plan (Academic Calendar) for the A.Y. 2022 - 2023

Matters Discussed:

- 1) Prof. Y.S. Rao presented the proposed Academic Calendar and evaluation policy for F.Y. B.Tech. and other even semesters.

Resolution:

- 1) All members approved the academic calendar and evaluation policy for the presently admitted students.

Agenda 4: Approval (Ratification) for a few amendments in the academic structure

Matters Discussed:

- 1) Prof. Y.S Rao highlighted that a skill-based course for 2 credits on Engineering Exploration was excluded from the course due to semesters commencing late from the last 3 years. Due to the pandemic, the semesters were compressed, so there was no space to conduct the summer term.
- 2) It was proposed with reference to the discussion with the industry personnel that an industry internship be approved to offer in the 8th semester (instead of the 6th) and a research internship will be approved to offer in the 6th semester (instead of the 8th) additionally, a student can choose in any case any one internship from the two
- 3) The SEVA/SATVA courses are now renamed to LLC (Life, Literature, and Culture) and were offered from Sem. I to Sem. VIII; but we propose a further batch (2023-2027) to include them between Sem. II to Sem. VII. The reason is first-year late admissions, revised curriculum, and 8th-semester industry internship so students will have 6 LLC courses instead of 8 LLC courses and acquire 6 credits as each semester the LLC course is for 1 credit. If a student is unable to complete the course due to reasons such as absence, performance in the evaluation, or fitness etc. he/she will be dropped from that course and will have to complete 2 courses in a subsequent semester. A student will be allowed to enroll in a maximum of 2 such courses in any such semester.

Resolution:

- 1) Academic Council members approved the same.
- 2) Academic Council members approved the change in the internship offered.
- 3) Academic Council members approved the changes in the LLC Courses,

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Agenda 5: Approval for a few amendments in the Attendance and Examination Rules

Matters Discussed:

- 1) Prof. S. S. Patil proposed a relaxation of 25% in lab/tutorial and theory attendance with a presumption from the i.C.O.D. and a student with below 75% attendance will not be allowed to sit for the end-semester examination for that particular subject's theory and/or practical.
- 2) If students below 75% attendance, will have to appear for a re-examination after attending the extra session or remedial lectures are scheduled for them additionally, all students who will undergo the re-examination will have a grade penalty of one grade.
- 3) The chairman of examination, Dr. Sukanya Kulkarni proposed 3rd attempt as a special examination apart from regular examination and re-examination where students can appear at the end of the academic year mainly for students with unfair means and for those who have not been able to clear in the first and second attempt are given an opportunity to re-appear before they go to the next higher semester instead of carrying ATKT concept and, all students will have a grade penalty of one grade and financial examination charges.
- 4) Prof. T. A. Patel made the end-semester examination (ESE) as a separate passing head. The student needs to score a minimum passing mark of median/2 in ESE as well as a minimum passing mark of median/2 in the total marks of all theory or laboratory courses so ESE is taken separately by students. Specially abled students shall be given grace marks up to 5% of the total marks in individual subjects all courses in the semester.

Resolution:

- 1) Prof. D. D. Chandhari suggested that lab attendance must be 100% and that teachers must encourage the students when students miss out or are absent from any practical lab course.
- 2) Prof. Shukla suggested that the defaulter students' mark sheets should show a second attempt instead of appearing for re-examination else, students might take advantage of the same.
- 3) Prof. T. A. Patel suggested that it is better to limit the examination to 1+1 and 1+1 in both internal & external internally declared that the terms of the special examination will be on the 1st week of January.
- 4) Prof. T. A. Patel agreed his observation and suggested some minor changes in the same.

Agenda 6: Approval for the discontinuation of M.Tech (Comps.) and M.Tech. (EXTC.) Programs

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Matters Discussed:

- 1) Prof. Rao explained that statistics and analysis of the PG Program and one of the main reasons for the closure of the program is the lack of student interest. Despite efforts taken to increase enrolment, the program has consistently had low enrolment numbers over the past few years. And it is no longer aligned with our institutional goals and is not generating enough enrolment or revenue to justify its continued operation.

Resolution:

- 1) Prof. R.S. Pande suggested that we can reduce the intake from 18 to 6 and continue the courses for a few more years; additionally, Prof. Keskar pointed out that we must continue the course and postpone our decision on discontinuation as suggested by Prof Pande as it is difficult to restart a course after its discontinuation.

Agenda 7: Approval to apply for Integrated M.Tech. (EXTC.)

Matters Discussed:

- 1) Prof. Rao proposed approval of the 4+1 integrated master's program as constituted by AICTE.

Resolution:

- 1) Academic Council members approved the same, and members also suggested planning for a domain-specific integrated program.

Agenda 8: Approval to apply for the autonomous status of Ph.D. programs at SP-IT

Matters Discussed:

- 1) It was proposed that we apply to our governing body for the autonomous status of Ph.D. programs.

Resolution:

- 1) Academic Council members unanimously approved the same.

Agenda 9: Approval for an increase in intake capacity of the MCA Program

Matters Discussed:

- 1) Prof. Rao proposed an increase in the intake from 60 to 120 students as the college has all the resources, infrastructure, and placements in place for the same.

Resolution:

- 1) Academic Council members approved the same.

Agenda 10: Approval for Academic Rules and Regulations at SP-IT

Matters Discussed:

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- 1) The chairman informed that the academic rule book is published at the beginning of the academic year. He also informed that the academic council members and their suggestions on the same are very encouraging.

Agenda: 1. Approval of the intake number list (EXTC, Computer, CSE-AIML, CSE- DS, MCA)

Matter: 1. Intake

- 1) Prof. Bhagat informed the proposed list of subject experts nominated by the academic council for respective B.Ed. intakes for two new programs CSE-AIML, CSE- DS with 60 intake each, namely, 160 EXTC, Computer, MCA.

Resolution:

- 1) Academic council approved the same.

Agenda: 2. Accept other point of discussion with the permission of the chairman.

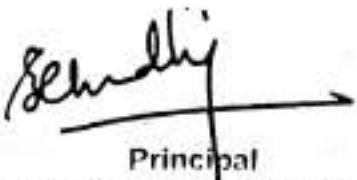
- 1) The chairman thanked the members for attending and providing their valuable insights and suggestions and promised that all the suggestions and recommendations will be implemented in due course of time.

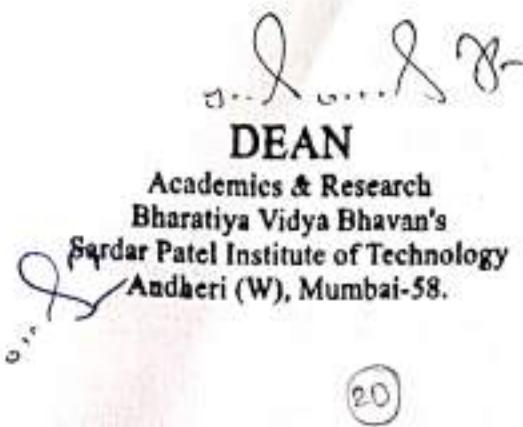
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Minutes of the 9th Academic Council Meeting

| Meeting No.: | 9 th Academic Council Meeting (Online) | | |
|--|--|-------|----------|
| Date of Meeting | 27/07/2023 | Time: | 03:00 PM |
| Place: | Online | | |
| Chairman | Dr. B. N. Chaudhari | | |
| Member Secretary | Dr. Y S Rao | | |
| Special Invitees and University Nominees | Dr. Hema Date (NITIE Mumbai) Dr. Faruk Kazi (VJTI, Mumbai) Dr. B. Satyanarayana (TIFR) Dr. Nutan Limaye (IIT, Bombay) Dr. A.G. Keskar (VNIT, Nagpur) Dr. M.S. Sutavane (COEP) Dr. Rajesh R. Pande (RKNEC, Nagpur) Mr. Anand Chitre (Barclays) Mr. Aniruddha Ainapure (JPMC) Mr. Sudhakar Paulzagade (Druva) | | |
| Student Representatives | Eeshaan Asodekar (ETRX) Sara Sheth (EXTC) Aditya Motwani (COMP) Shreya Shetty (IT) vishal Padme (MCA) | | |
| Head of the Departments | Dr. Reena S. Sonkusare Dr. Prasenjit Bhavathantkar Dr. D. R. Kalbande | | |
| Controller of Examinations | Dr. Sukanya Kulkarni | | |
| T.P.O. | Mr. Vinod Sikka | | |
| Registrar | Ms. Pallavi More | | |
| Faculty Representatives | Dr. R. G. Sutar Dr. Pooja Raundale Dr. K. K. Devadkar Dr. Aarti Karande | | |


Principal
Sardar Patel Institute of Technology
 Bhavan's Campus,
 Munshi Nagar, Andheri (West),
 Mumbai - 400 058.


DEAN
 Academics & Research
 Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
 Andheri (W), Mumbai-58.

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| Professors and Associate Professors | Dr. Rita Das Dr. D. C. Karia Dr. S. N. Dhage Prof. K. T. Talele Dr. N. A. Bhagat Dr. R. R. Sawant Dr. Sujata Kulkarni Prof. M. M. Parmar Prof. D. D. Ambawade Dr. Surekha Dholay Prof. A A Godbole |
| Minutes Prepared By: | Dr. Deepak Nair |

The Academic Council meeting was called via online mode on 27th July 2023 at 03.00 p.m. to discuss various issues related to SP-IT academics. Prof. Y.S. Rao, Dean-Academics, welcomed all the committee members and experts from across the country and presented the agenda of the meeting.

Further, Prof. B. N. Chaudhari, Principal, gave the opening note for the meeting.

Agenda 1: Confirmation of minutes of the 8th AC meeting held on 2nd February 2022

Matters Discussed:

- 1) Prof. Y.S. Rao, Dean- Academics briefed on the previous minutes.

Resolution:

- 1) All members unanimously confirmed the minutes of the previous meeting.

Agenda 2: Approval (Ratification) for a few amendments in the academic structure (2020-24 batch)

Matters Discussed:

- 1) Prof. Y.S. Rao, Dean- Academics presented the amendments needs to be made in the academic structure for 2020-2024 batch.
- 2) Prof. B.N. Chaudhari informed the committee about the intention of implementing NEP based curriculum at SPIT and stressed on the advantages of the same to the students and the institution.
- 3) He further informed the committee about the new elective basket implemented for FY students wherein they can opt for any three courses of their choice.
- 4) Prof. B.N. Chaudhary seconded this implementation by articulating that this move shall give the choice-based system more aptness.
- 5) Prof. Y.S. Rao also informed the committee that the Seva-Satva courses are now renamed as Life Literature Courses.
- 6) Prof. Y.S. Rao also stated about the introduction of mathematics at higher semesters and how it will enable the students to have more detailed knowledge about the engineering mathematics which in turn help them to implement their engineering core subjects studies in a better manner.

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- 7) He also suggested to have engineers with sound knowledge of mathematics as faculties to teach at higher semesters.
- 8) Dr. M.S. Sutavane enquired about the rational of having different maths for CE and CSE.
- 9) Prof. B.N. Chaudhary responded to his query by explaining the already existing scheme and how it can benefit the students.
- 10) Dr. E. Srinivasan enquired about the reason for having engineering professional to teach maths as suggested by Prof. Y.S. Rao.
- 11) He suggested to have the course be taught jointly by engineering professionals and mathematics teachers.
- 12) Dr. Faruk Kazi also recommended co-teaching of maths by both engineering professionals and maths teachers which will be more beneficial for students.
- 13) Mr. Anand Chitre asked whether any course is being removed since the introduction of new courses and some courses have now been moved to optional/elective courses.
- 14) Prof. Y.S. Rao responded that no course has been removed but some have been made optional.
- 15) Prof. Y.S. Rao also informed the committee about the internship options offered by the college.
- 16) Committee member Dr. Avinash Keskar suggested not to introduce all options of degree together as it will be difficult to administer them properly.

Resolution:

- 1) As suggested by Dr. Avinash and other members of the committee, both, the Principal and Dean-Academic accepted the observation and confirmed to implement one or two courses this year and gradually introduce different options of degree.
- 2) Mathematics will be taught by both mathematics teachers and engineering professionals.
- 3) The committee unanimously accepted the amendments with few suggestions.

Agenda D. Approval for SPIT NEP Curriculum Structure:

Matters Discussed:

- 1) Prof. Y.S. Rao presented the proposed NEP curriculum for approval of the committee.
- 2) Prof. B.N. Chaudhary further stressed on the advantages of having NEP curriculum structure for the institution.
- 3) Dr. M.S. Sutavane suggested to have LO based courses than CO based as desired by the NEP.
- 4) He also suggested to develop academic rule/ordinance based on NEP model of education.

Resolution:

The committee unanimously approved the SPIT NEP Curriculum Structure.

Agenda E. Any other point of discussion with the permission of the chairman.

- 1) The chairman thanked the members for attending and providing their valuable insights and suggestions and promised that all the suggestions and recommendations will be implemented in due course of time.

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A.Y. 2021-22

Minutes of the Meeting

| | | | |
|-----------------------------|---|--------------|----------|
| Meeting Name: | 7 th Academic Council Meeting (Online) | | |
| Date of Meeting | 03/09/2021 | Time: | 10:00 AM |
| Place: | Online | | |
| Attendees | As indicated in the list below. | | |
| Minutes Prepared By: | Dr. R. G. Sutar | | |

Academic Council meeting was called in online mode on 3rd September 2021 to discuss various issues related to the academics at SPIT. Principal and chairman of the council initiated the meeting with welcome note and brief introduction to the agenda of the meeting. He further asked Dr. Rajendra Sutar (Dean academics) to begin the proceedings of the meeting.

| Meeting Agenda | Discussion |
|--|---|
| <ul style="list-style-type: none"> 1) Confirmation of minutes of 6th AC meeting held on 26th March 2021. 2) Confirmation of result analysis and placement statistics 3) Approval for modification in evaluation scheme for the students to be admitted from AY 2021-22. | <p>Dr Rajendra Sutar Started with the agenda item, "confirmation of minutes of 6th Academic Council meeting". He informed the members of the council about implementation of the new curriculum approved in 6th ACM. He informed about the result analysis and placement statistics. He mentioned about the consistency in the placements despite the pandemic. Dr. Sutar presented the proposed scheme of evaluation for the students to be admitted this year and subsequent years, where a course teacher can have flexibility to decide the weightages of ISE and MSE with the permission of Department Undergraduate Program Committee (DUPC). Dr. Shubha Pandit, while addressing to the issue mentioned that the proposal must be first passed by Examination Committee and BoS and then put it for the approval of Academic Council. She also mentioned that students of a batch admitted to the institute belonging to certain curriculum. Any change in the evaluation policy must be from the beginning of the program and should not be from the halfway through. She further mentioned that there should be uniformity of marks in the marksheets, whereas the proposed policy will not ensure the uniformity. In reply to that Dr. Chaudhari mentioned that on the marksheets anyway we mention the grades and it will ensure the uniformity. Dr. Bhagwat mentioned that it may or may not be put in BoS but must be approved by the Examination Committee.</p> |

Resolution





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| | <p>Chairman Dr. B. N. Chaudhari assured that it will be presented to Examination committee and BoS and then to the Academic Council for the approval.</p> |
| 3) Approval for Academic Plan (Academic Calendar) and evaluation policy for the presently admitted students. | <p>Dr Sutar Presented the proposed Academic Calendar for Odd Term of 2021-22. He mentioned the need of different starting points for different classes due to late admissions in the first year and second year in academic year 2020-21. He also presented 40:60 policy for the presently admitted students.</p> |
| | Resolution |
| | <p>All members unanimously approved the academic calendar and evaluation policy for the presently admitted students.</p> |
| | Discussion |
| 4) Approval for the revised syllabus of Third year and the Final year UG Programs and second year MCA starting from A.Y. 2021-22. 5) Approval for the curriculum scheme of the merged UG programs: A) Computer Engineering and Information Technology to Computer Engineering B) Electronics Engineering and Electronics & Telecommunication Engineering to Electronics & Telecommunication Engineering. 6) Approval for the curriculum scheme for 2 New Programs at undergraduate level: A) B.Tech. Computer | <p>1. Dr. Sutar opened the discussion by highlighting some key initiatives like choice-based program electives, open electives. He presented the lists of program electives for four UG programs and MCA. He also presented the list of open electives (Institute level choice-based courses). Dr. Bhagwat asked to present the only summary and the changes recommended by the BoS and not the entire syllabus in the Academic Council. Replying to that Dr. Sutar mentioned that it is just a list and not a detailed syllabus. Further Dr Rathod informed that the list presented in the AC should be the one in which corrections are suggested by the BoS. He also mentioned that the corrections suggested in the BoS have been discussed in the department meeting, which are not reflected in the list presented. Replying to that Dr. Sutar informed that the presented one is the corrected list, and the separating of Department floated courses and MOOC courses is not done. He assured that while uploading the syllabus on the institute website, separated list of open electives will be placed.</p> <p>2. In the 6th meeting, the approval had been sought from the Academic council to merge the programs: A) Electronics Engineering with Electronics and Telecommunication Engineering and B) Information Technology with Computer Engineering. We have received the approval for merging these programs with intake of 120 each. The curriculum scheme for both the merged programs was presented to the council by Dr. Sutar. He enlightened the changes in the program electives and 2 program core courses in the 6th semester for E&TC program. He also informed that the syllabus for the first year of the merged programs are same as that of the 2020 iteration.</p> <p>3. In the 6th ACM esteemed members of the council had approved</p> |

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Sardar Patel Institute of Technology
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Date: 25/07/2021



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Science and
 Engineering (CSE-
 AIML)
 B) B.Tech. Computer
 Science and
 Engineering with
 specialization in Data
 Science. (CSE-DS)

unanimously the recommendation of the new branches. It was further presented for the approval to the governing board and subsequently received the approval from AICTE for two new programs: A) Computer Science and Engineering with specialization in Artificial Intelligence and Machine Learning (CSE-AIML), B) Computer Science and Engineering with specialization in Data Science (CSE-DS). Dr. Sutar proposed the curriculum structure for these programs, which has same structure as that of the Computer Engineering Program from 1st to 4th semester. Specialization begins from 5th semester in the form of compulsory courses in 5th and 6th semester and total 6 baskets of program electives placed 2 in each semester from 6th to 8th. He also proposed to incorporate 6-month long Industry Internship (optional) in the 7th semester in contrast to the 6th semester for CE and E & TC programs. Dr. Satyanarayana questioned on placement of Industry Internship in the 7th semester. Dr. Rathod advised to place it in 8th semester since the placement cycle starts in the 7th semester. In reply to that Dr Sutar informed that placing it in 6th or 8th semester will require internship offers for all the students in the same time frame. It will be challenging task for the placement office. Hence to maintain the balance, for these two new programs Industry Internship is placed in the 7th semester. Dr Sutar presented the program electives for both the programs: CSE-AIML and CSE-DS. Dr. Rathod mentioned that placing the general track of program electives will cause any student to graduate without the requisite specialization. Dr. Nimkar and Dr. Bhavathankar mentioned that the General Track can be removed and can be placed in 8th semester. Dr. Zia Saquib mentioned that the courses from the general track are important and should be the part of electives. Finally, Dr. B. N Chaudhari asked to place it in the 8th semester as an open basket. He further mentioned that at present the new programs are to be started at the time of actual implementation of program electives we will revisit it and revise if felt necessary. All the members unanimously advised to remove the general track from these programs and restructure the program electives.

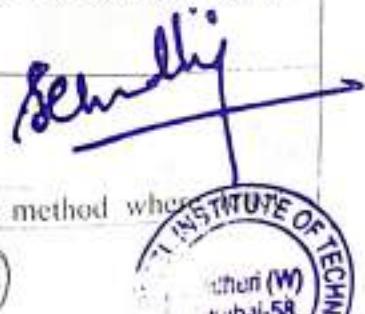
Resolution

Revised syllabus for 3rd and 4th year of UG programs and 2nd year of MCA was approved as it was approved and recommended by respective Bos. All the members unanimously approved the curriculum structure for the merged UG programs (CE and E& TC). Members also approved the Curriculum Structure for CSE-AIML and CSE-DS (with 6-month long Industry Internship in the 7th semester). The Curriculum structure for new programs was approved subject to elimination of general track of program electives and restructuring the tracks of Program Electives.

7) Approval for change in gradation method.

Discussion

Dr. Sutar Presented the proposed gradation method where





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9) Approval to start autonomous Ph. D. program at S.P.I.T.

grades from one digit to two digit. He mentioned that the proposed method will be bracketed relatively but absolute within the bracket. He further mentioned that department academic program committee (DAPC) will study the marks obtained by the entire class and decide the score. AB grade will be awarded to that score (S_A). S_A will not be more than top score of the class. It can be equal to or lower than the top score. The range between S_A and $M/2$ (Median/2) will be divided in 6 equal intervals and will be allotted these grades chronologically. In reply to that Dr. Satyanarayana and Dr. Bhagwat mentioned that the normal cases are covered easily but exceptional cases must be covered. Dr. Chaudhari explained how the role of DAPC is important and how the grade intervals should be equally spaced. Dr. Bhagwat expressed his view as need of exam audit committee and auditing of question papers, results, and grades, after the exam is over. While answering to that Dr. Chaudhari mentioned that DAPC will do the result and grade audit and presently question paper audit is done by external auditor. Dr. Bhagwat mentioned that there should be external auditor. Dr. Satyanarayana mentioned that we should not loose on the data due to absolute marks. Dr. Rita Das questioned whether there will be combined passing or passing in ESE will be compulsory. Replying to that Dr. Chaudhari explained that there will be combined passing. Dr. Bhagwat elaborated the advantages of combined passing by giving an example of a student who fail to attend due to illness or any other reason may also get passed with the help of continuous evaluation.

Dr Sutar opened the discussion for the last point of agenda, 'Starting Autonomous PHD at SPIT', by stating that presently the delay in the stages of the process including thesis review. Adding on to it Dr. Y. S. Rao mentioned that even for title approval, at university level it is required to freeze the title at day one. The researchers find it difficult when their research outcomes may change over the time. He also assured to maintain the quality of research and some collaborative research. Dr. Satyanarayana insisted the rigorous course work in the form of research methodology. Dr. Bhagwat cited that until total number of PhD candidates graduating every year cross 25 to 50, it will be highly inappropriate to start with autonomous PhD. Dr. Satyanarayana also seconded his opinion. Dr. Chaudhari requested the council to principally accept this and said that in due course of time we will submit the details. Dr. Bhagwat said that he is of the opinion that at this stage it is too premature to start autonomous PhD at SPIT. Dr. Satyanarayana seconded it and said that he also feels strongly that some more thought is required institute level before flashing the Autonomous PhD. Dr. Chaudhari cited some institutions where PhD program is younger. He also cited that as an outcome National Education Policy 2020 we may be forced to run our own programs.

Resolution





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All the members principally agreed for the change in the grading method with proper examination audit. Since the members believed it would be too premature to start Autonomous PhD at SPIT, the agenda was held temporarily.

At the end Principal Dr. Chaudhari thanked all the members of academic council. Dr. Kalbande proposed vote of thanks to conclude the meeting.

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encl.

Attendees:

Dr. B. N. Chaudhari (Chairman)
Dr. Satyanarayana B.
Dr. Shubha Pandit
Dr. S. S. Bhagwat
Dr. Zia Saquib
Dr. Sudhir Dhage
Dr. Rita Das
Dr. Pooja Raundale
Dr. Deepak Karia
Prof. Govind Haldankar
Dr. Prasenjit Bhavathankar
Dr. Reena Kumbhare
Dr. Anant Nimkar
Prof. Dayanand Ambawade
Dr. Rajendra Sawant
Dr. Rajendra Sutar
Prof. Surekha Dholay
Dr. Dhananjay Kalbande
Prof Kailas Devadkar
Dr. Yerramreddy Srinivasa Rao
Dr. Surendra Singh Rathod
Prof. Kiran Talele.
L V Aditi Chaluvadi
Rohit Pai

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Minutes of the Meeting

| | | | |
|----------------------|---|-------|----------|
| Meeting Name: | 7 th Academic Council Meeting (Online) | | |
| Date of Meeting | 03/09/2021 | Time: | 10:00 AM |
| Place: | Online | | |
| Attendees | As indicated in the list below. | | |
| Minutes Prepared By: | Dr. R. G. Sutar | | |

Academic Council meeting was called in online mode on 3rd September 2021 to discuss various issues related to the academics at SPIT. Principal and chairman of the council initiated the meeting with welcome note and brief introduction to the agenda of the meeting. He further asked Dr. Rajendra Sutar (Dean academics) to begin the proceedings of the meeting.

| Meeting Agenda | Discussion |
|--|---|
| <ul style="list-style-type: none"> 1) Confirmation of minutes of 6th AC meeting held on 26th March 2021. 2) Confirmation of result analysis and placement statistics 3) Approval for modification in evaluation scheme for the students to be admitted from AY 2021-22. | <p>Dr Rajendra Sutar Started with the agenda item, "confirmation of minutes of 6th Academic Council meeting". He informed the members of the council about implementation of the new curriculum approved in 6th ACM. He informed about the result analysis and placement statistics. He mentioned about the consistency in the placements despite the pandemic. Dr. Sutar presented the proposed scheme of evaluation for the students to be admitted this year and subsequent years, where a course teacher can have flexibility to decide the weightages of ISE and MSE with the permission of Department Undergraduate Program Committee (DUPC). Dr. Shubha Pandit, while addressing to the issue mentioned that the proposal must be first passed by Examination Committee and BoS and then put it for the approval of Academic Council. She also mentioned that students of a batch admitted to the institute belonging to certain curriculum. Any change in the evaluation policy must be from the beginning of the program and should not be from the halfway through. She further mentioned that there should be uniformity of marks in the marksheets, whereas the proposed policy will not ensure the uniformity. In reply to that Dr. Chaudhari mentioned that on the marksheets anyway we mention the grades and it will ensure the uniformity. Dr. Bhagwat mentioned that it may or may not be put in BoS but must be approved by the Examination Committee.</p> |

Resolution





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Chairman Dr. B. N. Chaudhari assured that it will be presented to Examination committee and BoS and then to the Academic Council for the approval.

- 3) Approval for Academic Plan (Academic Calendar) and evaluation policy for the presently admitted students.

Dr Sutar Presented the proposed Academic Calendar for Odd Term of 2021-22. He mentioned the need of different starting points for different classes due to late admissions in the first year and second year in academic year 2020-21. He also presented 40:60 policy for the presently admitted students.

Resolution

All members unanimously approved the academic calendar and evaluation policy for the presently admitted students.

Discussion

- 4) Approval for the revised syllabus of Third year and the Final year UG Programs and second year MCA starting from A.Y. 2021-22.

- 5) Approval for the curriculum scheme of the merged UG programs: A) Computer Engineering and Information Technology to Computer Engineering B) Electronics Engineering and Electronics & Telecommunication Engineering to Electronics & Telecommunication Engineering.

- 6) Approval for the curriculum scheme for 2 New Programs at undergraduate level: A) B.Tech. Computer

1. Dr. Sutar opened the discussion by highlighting some key initiatives like choice-based program electives, open electives. He presented the lists of program electives for four UG programs and MCA. He also presented the list of open electives (Institute level choice-based courses). Dr. Bhagwat asked to present the only summary and the changes recommended by the BoS and not the entire syllabus in the Academic Council. Replying to that Dr. Sutar mentioned that it is just a list and not a detailed syllabus. Further Dr Rathod informed that the list presented in the AC should be the one in which corrections are suggested by the BoS. He also mentioned that the corrections suggested in the BoS have been discussed in the department meeting, which are not reflected in the list presented. Replying to that Dr. Sutar informed that the presented one is the corrected list, and the separating of Department floated courses and MOOC courses is not done. He assured that while uploading the syllabus on the institute website, separated list of open electives will be placed.

2. In the 6th meeting, the approval had been sought from the Academic council to merge the programs: A) Electronics Engineering with Electronics and Telecommunication Engineering and B) Information Technology with Computer Engineering. We have received the approval for merging these programs with intake of 120 each. The curriculum scheme for both the merged programs was presented to the council by Dr. Sutar. He enlightened the changes in the program electives and 2 program core courses in the 6th semester for E&TC program. He also informed that the syllabus for the first year of the merged programs are same as that of the 2020 iteration.

3. In the 6th ACM esteemed members of the council had app-

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- Science and Engineering (CSE-AIML)
- B) Tech. Computer Science and Engineering with specialization in Data Science. (CSE-DS)

unanimously the recommendation of the new branches. It was further presented for the approval to the governing board and subsequently received the approval from AICTE for two new programs: A) Computer Science and Engineering with specialization in Artificial Intelligence and Machine Learning (CSE-AIML), B) Computer Science and Engineering with specialization in Data Science (CSE-DS). Dr. Sutar proposed the curriculum structure for these programs, which has same structure as that of the Computer Engineering Program from 1st to 4th semester. Specialization begins from 5th semester in the form of compulsory courses in 5th and 6th semester and total 6 baskets of program electives placed 2 in each semester from 6th to 8th. He also proposed to incorporate 6-month long Industry Internship (optional) in the 7th semester in contrast to the 6th semester for CE and E & TC programs. Dr. Satyanarayana questioned on placement of Industry Internship in the 7th semester. Dr. Rathod advised to place it in 8th semester since the placement cycle starts in the 7th semester. In reply to that Dr Sutar informed that placing it in 6th or 8th semester will require internship offers for all the students in the same time frame. It will be challenging task for the placement office. Hence to maintain the balance, for these two new programs Industry Internship is placed in the 7th semester. Dr Sutar presented the program electives for both the programs: CSE-AIML and CSE-DS. Dr. Rathod mentioned that placing the general track of program electives will cause any student to graduate without the requisite specialization. Dr. Nimkar and Dr. Bhavathankar mentioned that the General Track can be removed and can be placed in 8th semester. Dr. Zia Saquib mentioned that the courses from the general track are important and should be the part of electives. Finally, Dr. B. N Chaudhari asked to place it in the 8th semester as an open basket. He further mentioned that at present the new programs are to be started at the time of actual implementation of program electives we will revisit it and revise if felt necessary. All the members unanimously advised to remove the general track from these programs and restructure the program electives.

Resolution

Revised syllabus for 3rd and 4th year of UG programs and 2nd year of MCA was approved as it was approved and recommended by respective BoS. All the members unanimously approved the curriculum structure for the merged UG programs (CE and E & TC). Members also approved the Curriculum Structure for CSE-AIML and CSE-DS (with 6-month long Industry Internship in the 7th semester). The Curriculum structure for new programs was approved subject to elimination of general track of program electives and restructuring the tracks of Program Electives.

- 7) Approval for change in gradation method.

Discussion

Dr. Sutar Presented the proposed gradation method where





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- 9) Approval to start autonomous Ph. D. program at S.P.I.T.

grades from one digit to two digit. He mentioned that the proposed method will be bracketed relatively but absolute within the bracket. He further mentioned that department academic program committee (DAPC) will study the marks obtained by the entire class and decide the score. AB grade will be awarded to that score (S_A). S_A will not be more than top score of the class. It can be equal to or lower than the top score. The range between S_A and $M/2$ (Median/2) will be divided in 6 equal intervals and will be allotted these grades chronologically. In reply to that Dr. Satyanarayana and Dr. Bhagwat mentioned that the normal cases are covered easily but exceptional cases must be covered. Dr. Chaudhari explained how the role of DAPC is important and how the grade intervals should be equally spaced. Dr. Bhagwat expressed his view as need of exam audit committee and auditing of question papers, results, and grades, after the exam is over. While answering to that Dr. Chaudhari mentioned that DAPC will do the result and grade audit and presently question paper audit is done by external auditor. Dr. Bhagwat mentioned that there should be external auditor. Dr. Satyanarayana mentioned that we should not loose on the data due to absolute marks. Dr. Rita Das questioned whether there will be combined passing or passing in ESE will be compulsory. Replying to that Dr. Chaudhari explained that there will be combined passing. Dr. Bhagwat elaborated the advantages of combined passing by giving an example of a student who fail to attend due to illness or any other reason may also get passed with the help of continuous evaluation.

Dr Sutar opened the discussion for the last point of agenda, 'Starting Autonomous PHD at SPIT', by stating that presently the delay in the stages of the process including thesis review. Adding on to it Dr. Y. S. Rao mentioned that even for title approval, at university level it is required to freeze the title at day one. The researchers find it difficult when their research outcomes may change over the time. He also assured to maintain the quality of research and some collaborative research. Dr. Satyanarayana insisted the rigorous course work in the form of research methodology. Dr. Bhagwat cited that until total number of PhD candidates graduating every year cross 25 to 50, it will be highly inappropriate to start with autonomous PhD. Dr. Satyanarayana also seconded his opinion. Dr. Chaudhari requested the council to principally accept this and said that in due course of time we will submit the details. Dr. Bhagwat said that he is of the opinion that at this stage it is too premature to start autonomous PhD at SPIT. Dr. Satyanarayana seconded it and said that he also feels strongly that some more thought is required institute level before flashing the Autonomous PhD. Dr. Chaudhari cited some institutions where PhD program is younger. He also cited that as an outcome National Education Policy 2020 we may be forced to run our own programs.

Resolution



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| | All the members principally agreed for the change in the grading method with proper examination audit. Since the members believed it would be too premature to start Autonomous PhD at SPIT, the agenda was held temporarily. |
|--|---|

At the end Principal Dr. Chaudhari thanked all the members of academic council. Dr. Kalbande proposed vote of thanks to conclude the meeting.

Chaudhari →
Kalbande →

(20)


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encl.

Attendees:

Dr. B. N. Chaudhari (Chairman)
Dr. Satyanarayana B.
Dr. Shubha Pandit
Dr. S. S. Bhagwat
Dr. Zia Saquib
Dr. Sudhir Dhage
Dr. Rita Das
Dr. Pooja Raundale
Dr. Deepak Karia
Prof. Govind Haldankar
Dr. Prasenjit Bhavathankar
Dr. Reena Kumbhare
Dr. Anant Nimkar
Prof. Dayanand Ambawade
Dr. Rajendra Sawant
Dr. Rajendra Sutar
Prof. Surekha Dholay
Dr. Dhananjay Kalbande
Prof Kailas Devadkar
Dr. Yerramreddy Srinivasa Rao
Dr. Surendra Singh Rathod
Prof. Kiran Talele.
L V Aditi Chaluvadi
Rohit Pai



Sekhri

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Minutes of the Meeting

The 6th meeting of academic council took place on 26th March 2021. The following members of the council attended the meetings.

1. Dr. B. N. Chaudhari
2. Dr. Sudhir Dhage
3. Dr. Rita Das
4. Dr. Pooja Raundale
5. Dr. Deepak Karia
6. Prof. Govind Haldankar
7. Dr. Prasenjit Bhavathankar
8. Dr. Kushal Tuckley
9. Dr. Radha Shankarmani
10. Dr. Reena Kumbhare
11. Dr. Shubha Pandit
12. Dr. Anant Nimkar
13. Prof. Dayanand Ambawade
14. Dr. Rajendra Sawant
15. Dr. Jonathan Joshi
16. Dr. Rajendra Sutar
17. Prof. Surekha Dholay
18. Dr. Dhananjay Kalbande
19. Prof. Kailas Devadkar
20. Dr. Preeti Vinayakray
21. Dr. Yerramreddy Srinivasa Rao
22. Dr. Surendra Singh Rathod
23. Dr. Mahesh Patil
24. Dr. Rohin Daruwala
25. Raaheem Madoo
26. Prof. Kiran Talele
27. L V Aditi Chaluvadi
28. Rohit Pai
29. Nishit Shanbhag

Sudhir





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30. Sagar Badlani

31. Isha Naik.

Following members could not attend the meeting and were granted leave of absence.

1. Prof. Sunil Bhagwat
2. Dr. V. B. Chandratre
3. Dr. Satyanarayan
4. Prof. Milind Sohoni
5. Dr. Sameer Sahasrabudhe

| | | | |
|----------------------|---|-------|----------|
| Meeting Name: | 6 th Academic Council Meeting (Online) | | |
| Date of Meeting | 26/03/2021 | Time: | 11:00 AM |
| Place: | Online | | |
| Attendees | As indicated in the list below. | | |
| Minutes Prepared By: | Dr. R. G. Sutar | | |

Academic Council meeting was called in online mode on 26th March 2021 to discuss various issues related to the academics at SPIT. Principal and chairman of the council initiated the meeting with welcome note and brief introduction to the agenda of the meeting. He further asked Dr. Rajendra Sutar (Dean academics) to begin the proceedings of the meeting.

| Meeting Agenda | |
|--|---|
| 1) Confirmation of minutes of 5th AC meeting held on 14th May 2019. 2) Confirmation of evaluation policy for (Even Semester) 2019-20 batch 3) Confirmation of academic plan for odd semester of AY 2020-21 4) Confirmation of | <p style="text-align: center;">Discussion</p> <p>Dr Rajendra Sutar Started with the agenda item, "confirmation of minutes of 5th Academic Council meeting". Online approval for the "Policy of Evaluation" (even semester of 2019-20) and academic plan (odd semester of 2020-21 had been already sought. Members of AC ratified it. Academic Engagement during the Pandemic period was presented. Dean Academic presented the result analysis and pointed out the lacunas in conducting online examination. Dr. Daruwala mentioned that innovative ways must be used for online evaluation. Experts appreciated Institute's plan to conduct in person examination if situation permits.</p> |

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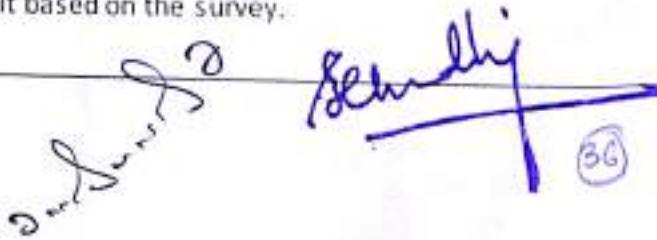




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| | |
|---|--|
| Academic Engagement and Result Analysis (in virtual mode) | |
| 5) Approval for Academic Plan (Academic Calendar) and evaluation plan for even semester 2020-21. | <p>Discussion</p> <p>Dean Academic Presented the academic plan and evaluation policy for even semester of 2020-21. Academic Calendar was presented for approval.</p> <p>Resolution</p> <p>All members unanimously approved the academic plan, evaluation policy and the academic calendar.</p> |
| 6) Approval for the changes in curriculum and new curriculum for First year and Second year UG and PG starting from A.Y. 2020-21. | <p>Discussion</p> <p>1. Dean Academics opened the discussion by highlighting the major changes in the curriculum and it's need. Dr. Jonathan Joshi pointed out that 6-month industry internship must be available in 8th semester also. Dr. Daruwala appreciated the plan of shifting 6-month internship to 6th semester. He gave an example of such internship in 7th semester at VJTI. He also mentioned about the improvement in the quality of student's projects due to such a move. Principal Dr. B. N. Chaudhari assured to conduct a rigorous survey of industrial experts and revisit it based on the survey.</p> |


 Dr. B. N. Chaudhari
 Principal





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2. While presenting the new curriculum structure, Dr. Sutar Presented the Honors and MINOR certification program. Dr. M B Patil raised concern on the way of offering the stars to top performers in Program Core courses. He mentioned that it would give double credit to the same activity. Dr. Shubha Pandit and Dr. Jonathan Joshi also seconded it. Dr B. N. Chaudhari informed that it is not the degree but is the certification. Dr. Shubha Pandit mentioned that to encourage students for such activities, they can be felicitated by giving certificates, but Honors certificate should not be given as it would cause the conflict of interest. Dr. Pandit insisted that for Honors degree additional credits must be earned by learning additional courses as per the norms. Dr. B N Chaudhari assured to revisit the ways in which the students can ear stars for fetching the Honors Certificate. He insisted that already the credits of the program are 160. Further for a passionate learner it is possible to earn honors as well as minor certification, which is special feature of this academic model.
3. While discussing the Minors Program Dr. Chaudhari informed that it is not the "Minor" degree but Minor certification program. He also highlighted the positive impact of Minors Program on the First-Year UG admissions. Dr. Daruwala mentioned that the Minors Program can be awarded as a degree, with completion of requisite number of credits. Prof Chaudhari briefed about the plans of the institute towards offering the Minor certifications. He informed that SPIT wishes to collaborate / partner with other institutions / industry for this certification. The minor degree with partner institutions/industries may need several approvals. He further informed that autonomous institutions are empowered to design own certificate and post graduate diploma programs and offer those to the interested learners.
4. While presenting the Second-Year Scheme, Dr. Sutar highlighted the initiative of Foundation courses on Mathematics for lateral entry students. These are bridge courses to bring the lateral entry students at par with the regular entry students. Dr. Daruwala appreciated the sensitivity of the institute towards the lateral entry students and this initiative of offering bridge courses first and then offer regular mathematics courses of the second year in the summer term.

Shubha Pandit
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5. While presenting PG schemes, Dr. Jonathan Joshi raised query about thread electives and asked whether pre-requisites are to be fulfilled for courses in the thread electives. Dr. Chaudhari clarified it by mentioning the relevance of courses to each other and clarified that the pre-requisites must be fulfilled while opting for the courses from thread electives.

Resolution

The Changes in the curriculum for UG, PG and MCA, First and Second-Year Syllabi was unanimously approved subject to concerns on initiatives such as Honors Certification and Six-month Industry Internship. Principal Dr. B. N. Chaudhari assured to take necessary steps to revisit it based on the suggestions received and the feedback received from Industry Experts.

Discussion

- 7) Information about Admission Statistics
 8) Information about Placement and Internships

Dr. Sutar Presented the Admission Statistics of First-Year UG programs. Dr Chaudhari informed about admission scenario. Dr. Sutar while presenting placement and internship statistics thanked the Training and Placement office for their sincere efforts in breaking the previous records.

Discussion

- 9) Recommendations for merger of the UG programs
 10) Starting New Programs at undergraduate level

1. Dr. Sutar opened the discussion on the possible merger of Electronics and Electronics & Telecommunication to "Electronics and Telecommunication". Merger of Computer Engineering and Information Technology to Computer Engineering was also proposed. Dr. Shubha Pandit pointed out regarding the difficulties in merging and advised to handle the issue carefully while dealing with the Cadre Ratio and Sonority of faculty. Prof Chaudhari informed that faculty qualifications, recruitment rules, present cadre, etc are duly studied and the proposed merger will not trigger any issue. He further informed that due discussions and deliberations with all senior faculty members (HoDs/Deans/Professors/Associate Professors) were made before bringing this to the academic council. Further he remarked that institute has already taken steps in this direction, making core courses common. Board of studies of the res-

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departments have appreciated and approved the combined curriculum for the common courses. Dr. Jonathan Joshi insisted to retain the core courses like VLSI, Computer Architecture etc. while drafting scheme of such program after merging. All external members of the council welcomed this proposal.

2. Dr. B. N. Chaudhari proposed the expansion by a way of addition of two programs:

B. Tech. Computer Engineering (AI and Machine Learning)
B. Tech. Computer Engineering (Data Science)

Dr. Rathod mentioned that it may not be possible to merge the Electronics and Electronics & Telecommunication programs as according to Approval Process Handbook it may not be permitted. Dr. Chaudhari informed that the Institute has informally confirmed with the AICTE officials. However he informed about the difficulty in the portal for electronics merger.

Resolution

All the members principally agreed for the merger of the said branches and approved unanimously the recommendation of addition of the new branches

At the end Principal Dr. Chaudhari thanked all the members of academic council, particularly external members for their valuable inputs and discussions. He remarked that SPIT will carefully look at the input from every corner. Dr. Shubha Pandit appreciated this thought process and open ness.

Dr. Kalbande proposed vote of thanks to conclude the meeting.

AP/81
[Signature]

[Signature]

Principal



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Reena Kumbhare <reena_kumbhare@spit.ac.in>

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7th Academic Council Meeting at SPIT (Online)

Rajendra Sutar <rajendra_sutar@spit.ac.in>

Wed, Sep 1, 2021 at 9:03 PM

To: isha.naik@spit.ac.in, ivaditi.chaluvadi@spit.ac.in, sagar.bedlani@spit.ac.in, rohit.pai@spit.ac.in, Yusha Bhabay <yusha.bhabay@spit.ac.in>, Raaheem Madoo <raaheem.madoo@spit.ac.in>, nishit.shanbhag@spit.ac.in, milind.sohoni@gmail.com, vbc@barc.gov.in, Zia Saquib <zsaquib@gmail.com>, jonathan.joshi <jonjoshi@gmail.com>, s1000brains@iitb.ac.in, "B.Satyanarayana" <bsn@iifr.res.in>, Shubha Pandit <principal@engg.somaiya.edu>, Sunil Bhagwat <ss.bhagwat@ictmumbai.edu.in>, "Dr. Rohin Daruwala" <rddaruwala@el.vjti.ac.in>, Kushal Tuckley <kushal.tuckley@agv-systems.in>, Yerramreddy Srinivasa Rao <ysrao@spit.ac.in>, Rita Das <rita_das@spit.ac.in>, Dhananjay Kalbande <drkalbande@spit.ac.in>, Radha Shankarmani <radha_shankarmani@spit.ac.in>, "Dr. Pooja Raundale" <pooja@spit.ac.in>, Surekha Dholay <surekha_dholay@spit.ac.in>, Dayanand Ambawade <dd_ambawade@spit.ac.in>, Devadkar Kailas <kailas_devadkar@spit.ac.in>, "Dr. Sudhir Dhage" <sudhir_dhage@spit.ac.in>, Kiran Talele <kiran.talele@spit.ac.in>, Surendra Singh Rathod <surendra_rathod@spit.ac.in>, Govind Haldankar <g_haldankar@spit.ac.in>, Preeti Vinayakray <preeti.vinayakray@spit.ac.in>, Rajendra Sawant <rajendra.sawant@spit.ac.in>, deepak_karia@spit.ac.in, Anant V Nimkar <anant_nimkar@spit.ac.in>, Prasenjit Bhavathankar <p_bhavathankar@spit.ac.in>, Reena Kumbhare <reena_kumbhare@spit.ac.in>

Dear Esteemed members of Academic Council of SPIT,

It's my pleasure to share with you that we have scheduled 7th Academic Council meeting at SPIT on Friday 3rd September 2021. It is the time to revisit and discuss our academic activities after the implementation of the revised curriculum (2020 iteration) The meeting is scheduled yet again in online mode, because of the COVID19 pandemic.

We have scheduled our "Seventh Academic Council Meeting" on 3rd September 2021 at 10:00 AM.

The google meet link is meet.google.com/dpu-rgdm-npv

On behalf of SPIT, I request you to join the meeting for the discussion for various points related to academics at SPIT.

The agenda of the meeting is attached herewith for your reference.

Thanks and regards,

Dr. Rajendra Sutar
Dean Academics,
S. P. I. T. Mumbai, 400058

Agenda 7th ACM Final.pdf
6096K

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Bhartiya Vidya Bhavan's
Sardar Patel Institute of Technology
(Autonomous Institution permanently affiliated to Mumbai University)

Agenda

Seventh Meeting (**Virtual**) of the

Academic Council

On

3rd September 2021 at 10.00 AM



J.S.
J.S.
J.S.

01



Preamble:

SPIT was conferred with autonomous status by UGC, GoM and Mumbai University in 2017. At the time of implementation, a decision was taken to start with autonomous curriculum for first year and second year. This new curriculum was of 188-194 credits. SPIT graduated its first autonomous branch in July 2020. The academic structures of UG/PG programs were changed to accommodate the 6 months industry internship and few other initiatives. This academic structure was modified in 2019 to implement the AICTE's new Model curriculum of 160 credits. It was restructured in A.Y. 2020 for its enrichment and student's convenience, without disturbing total 160 credits but with additional flexibility and choice-based approach and targeting implementation of few suggestions from the NEP draft document. Esteemed members of Academic Council had approved it in the last ACM.

It has been almost one and half year since we started with the virtual (online) mode of teaching learning, due to COVID-19. In the last AC meeting conducted on 26 March 2021, Revision of curriculum and syllabus for the F.Y. UG programs, M.Tech. and MCA. Modified Academic structure was presented and approved with some suggestions. SPIT's faculty and students, both sincerely adopted the new curriculum and executed the academic plan successfully. Second Wave of COVID 19 has once again disrupted the schedule of First-Year, Lateral Entry admissions causing significant delay. The delay in admissions has resulted in several challenges to conduct the academic activities in synchronization with the regular higher semesters. To deal with it, SPIT has planned several initiatives, which need discussions and deliberations.

With the approval of Governing Council, SPIT had applied for the merger of Computer and Information Technology to Computer Engineering with the intake of 120. Similarly, the merger of Electronics and Electronics & Telecommunication to Telecommunication Engineering with intake of 120. Additionally, we had also applied for permission to start two new programs: 1) Computer Science and Engineering with specialization in Artificial Intelligence and Machine Learning (CSE-AIML) and 2) Computer Science and Engineering with specialization in Data Science (CSE-DS) with the intake of 60 each. AICTE has approved all the proposals, Mumbai University has given NOC and Government of Maharashtra issued permission to all proposals. These programs will start from academic year 2021-22. Institute has designed the curriculum for these programs and tabled in this meeting.

These and some other academic issues are the agenda points for the discussions for the meeting planned on 3rd September 2021.



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| 4 | Approval for the revised syllabus of Third year and the Final year UG Programs and second year MCA starting from A.Y. 2021-22. | 5 |
| 5.a | Approval for the curriculum scheme Electronics & Telecommunication Engineering (merged with Electronics Engineering) starting from AY 2021 | 5 |
| 5.b | Approval for the curriculum scheme Computer Engineering (merged with Information Technology) starting from AY 2021 | 5 |
| 6.a | Approval for the curriculum scheme "Computer Science and Engineering with specialization in Artificial Intelligence & Machine Learning" (CSE-AIML)-a new program starting from AY 2021 | 5 |
| 6.b | Approval for the curriculum scheme "Computer Science and Engineering with specialization in Data Science" (CSE-DS)-a new program starting from AY 2021 | 5 |
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| E2 | Curriculum Scheme of (Merged) E&TC Program w.e.f. AY 2021-22 | 305 |
| F1 | Curriculum Scheme of (New Program) CSE-AIML w.e.f. AY 2021-22 | 309 |
| F2 | Curriculum Scheme of (New Program) CSE-DS w.e.f. AY 2021-22 | 314 |

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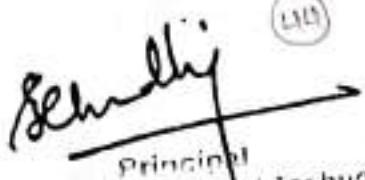
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 Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India
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Minutes of the Meeting

The 6th meeting of academic council took place on 26th March 2021. The following members of the council attended the meetings.

1. Dr. B. N. Chaudhari
2. Dr. Sudhir Dhage
3. Dr. Rita Das
4. Dr. Pooja Raundale
5. Dr. Deepak Karia
6. Prof. Govind Haldankar
7. Dr. Prasenjit Bhavathankar
8. Dr. Kushal Tuckley
9. Dr. Radha Shankarmani
10. Dr. Reena Kumbhare
11. Dr. Shubha Pandit
12. Dr. Anant Nimkar
13. Prof. Dayanand Ambawade
14. Dr. Rajendra Sawant
15. Dr. Jonathan Joshi
16. Dr. Rajendra Sutar
17. Prof. Surekha Dholay
18. Dr. Dhananjay Kalbande
19. Prof. Kailas Devadkar
20. Dr. Preeti Vinayakray
21. Dr. Yerramreddy Srinivasa Rao
22. Dr. Surendra Singh Rathod
23. Dr. Mahesh Patil
24. Dr. Rohin Daruwala
25. Raaheem Madoo
26. Prof. Kiran Talele
27. LV Aditi Chaluvadi
28. Rohit Pai
29. Nishit Shanbhag

A.Y


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30. Sagar Badlani

31. Isha Naik.

Following members could not attend the meeting and were granted leave of absence.

1. Prof. Sunil Bhagwat
2. Dr. V. B. Chandratre
3. Dr. Satyanarayan
4. Prof. Milind Sohoni
5. Dr. Sameer Sahasrabudhe

| | | | |
|-----------------------------|---|--------------|----------|
| Meeting Name: | 6 th Academic Council Meeting (Online) | | |
| Date of Meeting | 26/03/2021 | Time: | 11:00 AM |
| Place: | Online | | |
| Attendees | As indicated in the list below. | | |
| Minutes Prepared By: | Dr. R. G. Sutar | | |

Academic Council meeting was called in online mode on 26th March 2021 to discuss various issues related to the academics at SPIT. Principal and chairman of the council initiated the meeting with welcome note and brief introduction to the agenda of the meeting. He further asked Dr. Rajendra Sutar (Dean academics) to begin the proceedings of the meeting.

| Meeting Agenda | |
|--|---|
| 1) Confirmation of minutes of 5th AC meeting held on 14th May 2019. | Discussion |
| 2) Confirmation of evaluation policy for (Even Semester) 2019-20 batch | Dr Rajendra Sutar Started with the agenda item, "confirmation of minutes of 5 th Academic Council meeting". Online approval for the "Policy of Evaluation" (even semester of 2019-20) and academic plan (odd semester of 2020-21 had been already sought. Members of AC ratified it. Academic Engagement during the Pandemic period was presented. Dean Academic presented the result analysis and pointed out the lacunas in conducting online examination. Dr. Daruwala mentioned that innovative ways must be used for online evaluation. Experts appreciated Institute's plan to conduct in person examination if situation permits. |



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Academic Engagement and Result Analysis (in virtual mode)

| | |
|---|--|
| | |
| 5) Approval for Academic Plan (Academic Calendar) and evaluation plan for even semester 2020-21. | <p>Discussion</p> <p>Dean Academic Presented the academic plan and evaluation policy for even semester of 2020-21, Academic Calendar was presented for approval</p> <p>Resolution</p> <p>All members unanimously approved the academic plan, evaluation policy and the academic calendar.</p> |
| 6) Approval for the changes in curriculum and new curriculum for First year and Second year UG and PG starting from A.Y. 2020-21. | <p>Discussion</p> <p>1. Dean Academics opened the discussion by highlighting the major changes in the curriculum and it's need. Dr. Jonathan Joshi pointed out that 6-month industry internship must be available in 8th semester also. Dr. Daruwala appreciated the plan of shifting 6-month internship to 6th semester. He gave an example of such internship in 7th semester at VJTI. He also mentioned about the improvement in the quality of student's projects due to such a move. Principal Dr. B. N. Chaudhari assured to conduct a rigorous survey of industrial experts and revisit it based on the survey.</p> |

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2. While presenting the new curriculum structure, Dr. Sutar Presented the Honors and MINOR certification program. Dr. M B Patil raised concern on the way of offering the stars to top performers in Program Core courses. He mentioned that it would give double credit to the same activity. Dr. Shubha Pandit and Dr. Jonathan Joshi also seconded it. Dr B. N. Chaudhari informed that it is not the degree but is the certification, Dr. Shubha Pandit mentioned that to encourage students for such activities, they can be felicitated by giving certificates, but Honors certificate should not be given as it would cause the conflict of interest. Dr. Pandit insisted that for Honors degree additional credits must be earned by learning additional courses as per the norms. Dr. B N Chaudhari assured to revisit the ways in which the students can ear stars for fetching the Honors Certificate. He insisted that already the credits of the program are 160. Further for a passionate learner it is possible to earn honors as well as minor certification, which is special feature of this academic model.
3. While discussing the Minors Program Dr. Chaudhari informed that it is not the "Minor" degree but Minor certification program. He also highlighted the positive impact of Minors Program on the First-Year UG admissions. Dr. Daruwala mentioned that the Minors Program can be awarded as a degree, with completion of requisite number of credits. Prof Chaudhari briefed about the plans of the institute towards offering the Minor certifications. He informed that SPIIT wishes to collaborate / partner with other institutions / industry for this certification. The minor degree with partner institutions/industries may need several approvals. He further informed that autonomous institutions are empowered to design own certificate and post graduate diploma programs and offer those to the interested learners.
4. While presenting the Second-Year Scheme, Dr. Sutar highlighted the initiative of Foundation courses on Mathematics for lateral entry students. These are bridge courses to bring the lateral entry students at par with the regular entry students. Dr. Daruwala appreciated the sensitivity of the institute towards the lateral entry students and this initiative of offering bridge courses first and then offer regular mathematics courses of the second year in the summer term.



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5. While presenting PG schemes, Dr. Jonathan Joshi raised query about thread electives and asked whether pre-requisites are to be fulfilled for courses in the thread electives. Dr. Chaudhari clarified it by mentioning the relevance of courses to each other and clarified that the pre-requisites must be fulfilled while opting for the courses from thread electives.

Resolution

The Changes in the curriculum for UG, PG and MCA, First and Second-Year Syllabi was unanimously approved subject to concerns on initiatives such as Honors Certification and Six-month Industry Internship. Principal Dr. B. N. Chaudhari assured to take necessary steps to revisit it based on the suggestions received and the feedback received from Industry Experts.

Discussion

Dr. Sutar Presented the Admission Statistics of First-Year UG programs. Dr Chaudhari informed about admission scenario. Dr. Sutar while presenting placement and internship statistics thanked the Training and Placement office for their sincere efforts in breaking the previous records.

Discussion

1. Dr. Sutar opened the discussion on the possible merger of Electronics and Electronics & Telecommunication to "Electronics and Telecommunication". Merger of Computer Engineering and Information Technology to Computer Engineering was also proposed. Dr. Shubha Pandit pointed out regarding the difficulties in merging and advised to handle the issue carefully while dealing with the Cadre Ratio and Sonority of faculty. Prof Chaudhari informed that faculty qualifications, recruitment rules, present cadre, etc are duly studied and the proposed merger will not trigger any issue. He further informed that due discussions and deliberations with all senior faculty members (HoDs/Deans/Professors/Associate Professors) were made before bringing this to the academic council. Further he remarked that institute has already taken steps in this direction, making core courses common. Board of studies of the respective

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departments have appreciated and approved the combined curriculum for the common courses. Dr. Jonathan Joshi insisted to retain the core courses like VLSI, Computer Architecture etc. while drafting scheme of such program after merging. All external members of the council welcomed this proposal.

2. Dr. B. N. Chaudhari proposed the expansion by a way of addition of two programs:

B. Tech. Computer Engineering (AI and Machine Learning)
B. Tech. Computer Engineering (Data Science)

Dr. Rathod mentioned that it may not be possible to merge the Electronics and Electronics & Telecommunication programs as according to Approval Process Handbook it may not be permitted. Dr. Chaudhari informed that the Institute has informally confirmed with the AICTE officials. However he informed about the difficulty in the portal for electronics merger.

Resolution

All the members principally agreed for the merger of the said branches and approved unanimously the recommendation of addition of the new branches

At the end Principal Dr. Chaudhari thanked all the members of academic council, particularly external members for their valuable inputs and discussions. He remarked that SPIT will carefully look at the input from every corner. Dr. Shubha Pandit appreciated this thought process and open ness.

Dr. Kalbande proposed vote of thanks to conclude the meeting.


Dean Academics


Principal



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Minutes of the Meeting

Meeting Name:

7th Academic Council Meeting (Online)

Date of Meeting

03/09/2021

Time: | 10:00 AM

Place:

Online

Attendees

As indicated in the list below.

Minutes Prepared By:

Dr. R. G. Sutar

Academic Council meeting was called in online mode on 3rd September 2021 to discuss various issues related to the academics at SPIT. Principal and chairman of the council initiated the meeting with welcome note and brief introduction to the agenda of the meeting. He further asked Dr. Rajendra Sutar (Dean academics) to begin the proceedings of the meeting.

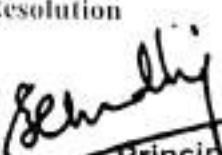
Meeting Agenda

- 1) Confirmation of minutes of 6th AC meeting held on 26th March 2021.
- 2) Confirmation of result analysis and placement statistics
- 3) Approval for modification in evaluation scheme for the students to be admitted from AY 2021-22.

Discussion

Dr. Rajendra Sutar Started with the agenda item, "confirmation of minutes of 6th Academic Council meeting". He informed the members of the council about implementation of the new curriculum approved in 6th ACM. He informed about the result analysis and placement statistics. He mentioned about the consistency in the placements despite the pandemic. Dr. Sutar presented the proposed scheme of evaluation for the students to be admitted this year and subsequent years, where a course teacher can have flexibility to decide the weightages of ISF and MSE with the permission of Department Undergraduate Program Committee (DUPC). Dr. Shubha Pandit, while addressing to the issue mentioned that the proposal must be first passed by Examination Committee and BoS and then put it for the approval of Academic Council. She also mentioned that students of a batch admitted to the institute belonging to certain curriculum. Any change in the evaluation policy must be from the beginning of the program and should not be from the halfway through. She further mentioned that there should be uniformity of marks in the marksheet, whereas the proposed policy will not ensure the uniformity. In reply to that Dr. Chaudhari mentioned that on the marksheet anyway we mention the grades and it will ensure the uniformity. Dr. Bhagwat mentioned that it may or may not be put in BoS but must be approved by the Examination Committee.

Resolution

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- 3) Approval for Academic Plan (Academic Calendar) and evaluation policy for the presently admitted students.

Chairman Dr. B. N. Chaudhari assured that it will be presented to Examination committee and BoS and then to the Academic Council for the approval.

Dr Sutar Presented the proposed Academic Calendar for Odd Term of 2021-22. He mentioned the need of different starting points for different classes due to late admissions in the first year and second year in academic year 2020-21. He also presented 40:60 policy for the presently admitted students.

Resolution

All members unanimously approved the academic calendar and evaluation policy for the presently admitted students.

Discussion

- 4) Approval for the revised syllabus of Third year and the Final year UG Programs and second year MCA starting from A.Y. 2021-22.
- 5) Approval for the curriculum scheme of the merged UG programs: A) Computer Engineering and Information Technology to Computer Engineering
 B) Electronics Engineering and Electronics & Telecommunication Engineering to Electronics & Telecommunication Engineering.
- 6) Approval for the curriculum scheme for 2 New Programs at undergraduate level: A) B.Tech. Computer

1. Dr. Sutar opened the discussion by highlighting some key initiatives like choice-based program electives, open electives. He presented the lists of program electives for four UG programs and MCA. He also presented the list of open electives (Institute level choice-based courses). Dr. Bhagwat asked to present the only summary and the changes recommended by the BoS and not the entire syllabus in the Academic Council. Replying to that Dr. Sutar mentioned that it is just a list and not a detailed syllabus. Further Dr Rathod informed that the list presented in the AC should be the one in which corrections are suggested by the BoS. He also mentioned that the corrections suggested in the BoS have been discussed in the department meeting, which are not reflected in the list presented. Replying to that Dr. Sutar informed that the presented one is the corrected list, and the separating of Department floated courses and MOOC courses is not done. He assured that while uploading the syllabus on the institute website, separated list of open electives will be placed.
2. In the 6th meeting, the approval had been sought from the Academic council to merge the programs: A) Electronics Engineering with Electronics and Telecommunication Engineering and B) Information Technology with Computer Engineering. We have received the approval for merging these programs with intake of 120 each. The curriculum scheme for both the merged programs was presented to the council by Dr. Sutar. He enlightened the changes in the program electives and 2 program core courses in the 6th semester for E&TC program. He also informed that the syllabus for the first year of the merged programs are same as that of the 2020 iteration.
3. In the 6th ACM esteemed members of the council had approved

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- Science and Engineering (CSE-AIML)
- B) Tech. Computer Science and Engineering with specialization in Data Science. (CSE-DS)

unanimously the recommendation of the new branches. It was further presented for the approval to the governing board and subsequently received the approval from AICTE for two new programs: A) Computer Science and Engineering with specialization in Artificial Intelligence and Machine Learning (CSE-AIML), B) Computer Science and Engineering with specialization in Data Science (CSE-DS). Dr. Sutar proposed the curriculum structure for these programs, which has same structure as that of the Computer Engineering Program from 1st to 4th semester. Specialization begins from 5th semester in the form of compulsory courses in 5th and 6th semester and total 6 baskets of program electives placed 2 in each semester from 6th to 8th. He also proposed to incorporate 6-month long Industry Internship (optional) in the 7th semester in contrast to the 6th semester for CE and E & TC programs. Dr. Satyanarayana questioned on placement of Industry Internship in the 7th semester. Dr. Rathod advised to place it in 8th semester since the placement cycle starts in the 7th semester. In reply to that Dr Sutar informed that placing it in 6th or 8th semester will require internship offers for all the students in the same time frame. It will be challenging task for the placement office. Hence to maintain the balance, for these two new programs Industry Internship is placed in the 7th semester. Dr Sutar presented the program electives for both the programs: CSE-AIML and CSE-DS. Dr. Rathod mentioned that placing the general track of program electives will cause any student to graduate without the requisite specialization. Dr. Nimkar and Dr. Bhavathankar mentioned that the General Track can be removed and can be placed in 8th semester. Dr. Zia Saquib mentioned that the courses from the general track are important and should be the part of electives. Finally, Dr. B. N Chaudhari asked to place it in the 8th semester as an open basket. He further mentioned that at present the new programs are to be started at the time of actual implementation of program electives we will revisit it and revise if felt necessary. All the members unanimously advised to remove the general track from these programs and restructure the program electives.

Resolution

Revised syllabus for 3rd and 4th year of UG programs and 2nd year of MCA was approved as it was approved and recommended by respective BoS. All the members unanimously approved the curriculum structure for the merged UG programs (CE and E & TC). Members also approved the Curriculum Structure for CSE-AIML and CSE-DS (with 6-month long Industry Internship in the 7th semester). The Curriculum structure for new programs was approved subject to elimination of general track of program electives and restructuring the tracks of Program Electives.

- 7) Approval for change in gradation method.

Discussion

Dr. Sutar Presented the proposed gradation method where letter

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- 9) Approval to start autonomous Ph. D. program at S.P.I.T.

grades from one digit to two digit. He mentioned that the proposed method will be bracketed relatively but absolute within the bracket. He further mentioned that department academic program committee (DAPC) will study the marks obtained by the entire class and decide the score. AB grade will be awarded to that score (S_A). S_A will not be more than top score of the class. It can be equal to or lower than the top score. The range between S_A and $M/2$ (Median/2) will be divided in 6 equal intervals and will be allotted these grades chronologically. In reply to that Dr. Satyanarayana and Dr. Bhagwat mentioned that the normal cases are covered easily but exceptional cases must be covered. Dr. Chaudhari explained how the role of DAPC is important and how the grade intervals should be equally spaced. Dr. Bhagwat expressed his view as need of exam audit committee and auditing of question papers, results, and grades, after the exam is over. While answering to that Dr. Chaudhari mentioned that DAPC will do the result and grade audit and presently question paper audit is done by external auditor. Dr. Bhagwat mentioned that there should be external auditor. Dr. Satyanarayana mentioned that we should not loose on the data due to absolute marks. Dr. Rita Das questioned whether there will be combined passing or passing in ESE will be compulsory. Replying to that Dr. Chaudhari explained that there will be combined passing. Dr. Bhagwat elaborated the advantages of combined passing by giving an example of a student who fail to attend due to illness or any other reason may also get passed with the help of continuous evaluation.

Dr Sutar opened the discussion for the last point of agenda, 'Starting Autonomous PHD at SPIT', by stating that presently the delay in the stages of the process including thesis review. Adding on to it Dr. Y. S. Rao mentioned that even for title approval, at university level it is required to freeze the title at day one. The researchers find it difficult when their research outcomes may change over the time. He also assured to maintain the quality of research and some collaborative research. Dr. Satyanarayana insisted the rigorous course work in the form of research methodology. Dr. Bhagwat cited that until total number of PhD candidates graduating every year cross 25 to 50, it will be highly inappropriate to start with autonomous PhD. Dr. Satyanarayana also seconded his opinion. Dr. Chaudhari requested the council to principally accept this and said that in due course of time we will submit the details. Dr. Bhagwat said that he is of the opinion that at this stage it is too premature to start autonomous PhD at SPIT. Dr. Satyanarayana seconded it and said that he also feels strongly that some more thought is required institute level before flashing the Autonomous PhD. Dr. Chaudhari cited some institutions where PhD program is younger. He also cited that as an outcome National Education Policy 2020 we may be forced to run our own programs.

Resolution

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All the members principally agreed for the change in the grading method with proper examination audit. Since the members believed it would be too premature to start Autonomous PhD at SPIT, the agenda was held temporarily.

At the end Principal Dr. Chaudhari thanked all the members of academic council. Dr. Kalbande proposed vote of thanks to conclude the meeting.



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encl.

Attendees:

Dr. B. N. Chaudhari (Chairman)
Dr. Satyanarayana B.
Dr. Shubha Pandit
Dr. S. S. Bhagwat
Dr. Zia Saquib
Dr. Sudhir Dhage
Dr. Rita Das
Dr. Pooja Raundale
Dr. Deepak Karia
Prof. Govind Haldankar
Dr. Prasenjit Bhavathankar
Dr. Reena Kumbhare
Dr. Anant Nimkar
Prof. Dayanand Ambawade
Dr. Rajendra Sawant
Dr. Rajendra Sutar
Prof. Surekha Dholay
Dr. Dhananjay Kalbande
Prof Kailas Devadkar
Dr. Yerramreddy Srinivasa Rao
Dr. Surendra Singh Rathod
Prof. Kiran Talele,
L V Aditi Chaluvadi
Rohit Pai

2018-19

Bharatiya Vidya Bhavan's
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(Autonomous Institute Affiliated to University of Mumbai)



Minutes of

Third Meeting of the

Academic Council

On

Saturday, July 14, 2018 at 10.30 AM

at

Conference Room No. 105
Sardar Patel Institute of Technology
Andheri (West), Mumbai-58

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Bharatiya Vidyabhavan's
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**Minutes and Action taken report for 3rd Academic Council Meeting
of S.P.I.T., Andheri (West), Mumbai.**

Meeting Date: Saturday, July 14, 2018

Time: 10.30 a.m.

Venue - Sardar Patel Institute of Technology

Following Members were present:

| Sr. No | Name |
|--------|--|
| 1 | Dr. Prachi Gharpure, Principal & Chairman |
| 2 | Dr. Zia Saquib, External Expert |
| 3 | Dr. Jonathan Joshi, External Expert |
| 4 | Dr. Sameer S. Sahasrabudhe, IIT Bombay, Invitee |
| 5 | Dr. Kushal Tuckley, IIT Bombay, Invitee |
| 6 | Dr. D.R. Kalbande, Head Computer Engineering Department, Member |
| 7 | Dr. Radha Shankar Mani, Head Information Technology Department, Member |
| 8 | Dr. Pooja Roundale, Head Master of Computer Applications, Member |
| 9 | Prof. Surekha Dholay, Associate Professor, Computer Engineering Department, Member |
| 10 | Prof. Kailash Devadkar, Associate Professor, Information Technology Department, Member |
| 11 | Prof. D.M. Patil, Associate Professor, Applied Sciences & Humanities Department, Invitee |
| 12 | Dr. Sudhir Dhage, Professor, Computer Engineering Department, Invitee |
| 13 | Dr. Rajendra Sutar, Associate Professor, Electronics Engineering Department, Invitee |
| 14 | Dr. Surendra Rathod, Dean(Academics) & Member Secretary |

Leave of absence was requested by Dr. Milind Sohoni Dr. Satyanarayana Bhasatte, Dr. V. B. Chandrasre, Dr. Y.S.Rao, Dr. Rita Das, Prof. D.D. Ambawade, Prof. Kiran Talele and Mrs. Apurva Mohite

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| Sr. No. | Agenda Item | Discussion/Remarks | Decision | Action Taken |
|---------|---|---|--|---|
| 1. | Welcome to members of the Academic Council for Third Meeting. | Member secretary, Academic Council Dr. S. S. Rathod started meeting by welcoming members. He informed that Dr. Sameer S. Sahasrabudhe, IIT Bombay, Dr. Kushal Tuckley, IIT Bombay, and Dr. V. B. Chandrade from BARC are included as invitee in AC. However Dr. V. B. Chandrade could not attend the meeting but has sent an email about his opinion on various agenda items; which has been read by Dr. S. S. Rathod. Member secretary also informed that S.P.I.T. regularly communicated to Mumbai university but names of nominees are not yet received. | .. | .. |
| 2. | Confirmation of Minutes and Action Taken Report of the Second Meeting of Academic Council held on 20th Jan 2018. | Member secretary asked about confirmation of minutes of second academic council meeting held on 20 th Jan 2018. No corrections or suggestions are given by the members and minutes are approved. | Minutes of Academic Council held on 20 th Jan 2018 are unanimously approved by all the members. | Minutes taken and ATR noted |
| 3. | Approval of Post Graduate Diploma Courses in: 1. UX Design 2. AR-VR 3. Music/Sound Engineering 4. Technology Entrepreneurship | Kindly refer Annexure-I for detail discussion. | Approved all the PGDM courses. | Suggestions are communicated to the curriculum designers of respective courses. |
| 4. | Approval of Academic Calendar for A.Y. 2018-19 | Academic Calendar for A.Y. 2018-19 was presented by Dr. S. S. Rathod | Approved the academic calendar | To be followed in academic year 2018-19 |

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| 5. | Approval of Examination Related Amendments | Dr. S. S. Rathod informed about the amendments proposed by the examination committee to be implemented from academic year 2018-19. He categorically informed about the introduction of reexamination. | All the amendments related to examinations are approved | Revised examination manual is prepared which is followed in academic year 2018-19. Amendments are presented in all the classes for student's information. Faculty was informed through faculty meeting. |
| 6. | Discussion on Credit Structure for UG Course as per new AICTE Guidelines for 160 Credits | Member secretary informed AC about the new AICTE guidelines regarding range of credits i.e. 150 to 160. He also informed that as per AICTE a student will be eligible to get Under Graduate degree with Honours or additional Minor engineering, if he/she completes an additional 20 credits which could be acquired through MOOCs. Dr. Prachi Gharpure said that S.P.I.T. may need to take an approval from University in case S.P.I.T. wish to give degree with honours. In future, very good quality research or SCOPE courses may be considered for degree with honours. | All members agreed to adopt 160 credit scheme from first year of engineering 2019-2020 batch. A proposal to be sent to Mumbai University for giving B.Tech (Hons.) if candidate earns 180 credits. | All departments are informed to revise the scheme and curriculum by considering 160 credits to be implemented for batch which will be admitted in 2019-2020. |
| 7. | Discussion on Industry Feedback | Kindly refer Annexure-II for detail discussion. | Combined theory and lab course for basic sciences, Programming courses as part of mathematics tutorial. Introduction of new | First year department is instructed to prepare the scheme as per the recommendations of AC for batch which will be admitted in 2019-2020. Committee consisting of members from all the departments is formed to prepare the modalities of 'summer term' which will |

8/8/2019



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| | | | activity based courses like animation and design thinking. Eight week interdisciplinary 'summer term' to be started. | be implemented after semester II. |
| 8. | Information about SCOPE Tracks and Rules for year 2018-19 | Dr. S. S. Rathod informed about SCOPE Tracks which will be made available for second year students for year 2018-19. He also informed about new tracks offered by Fractal Analytics and EBTS. Dr. Prachi Gharpure shared the experience of 2017-18 of SCOPE tracks. | Revised registration mechanism for SCOPE tracks is adopted i.e. registration amount for first three modules to be collected before start of track and then for next three modules after completion of first three modules. | To be followed from academic year 2018-19 |
| 11 | Any other matter with permission of chair. | Dr. Jonathan Joshi recommended giving a thought on accepting a Ph.D. work if patent is licensed by a company for the work done. Dr. Prachi Gharpure and Dr. S. S. Rathod did not agree to the idea and informed that S.P.I.T. is not ready at present for the same. This can be considered in future. Dr. Satyanarayana Bheesette has given his opinion through email. He wrote 'while agreeing that both the efforts towards | Feedback from students and faculty should be taken and majority decision to be implemented. A policy should be worked out for present semester V students to offer an internship in semester VIII. | Feedback from students and faculty is collected and the revised scheme is prepared. |

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| | <p>thesis and patent could be equally intensive, the purpose and most importantly the approach and methodologies are very different. While a patent could be byproduct of a thesis, not the other way around.' Dr. Jonathan also recommended that semester long internships will benefit students to which all the external members agreed and also cautioned about the monitoring of the process. He said that institute can be 'student centric' by doing an assessment at the place where internship is carried out. He also recommended giving a thought to include present third year students in this policy.</p> | |
| | <p>Member secretary informed that all the items of agenda are discussed and meeting ended with vote of thanks.</p> | |

Signature and Date

Dr. S. S. Rathod

Dean (Academics) and Member Secretary,
 Academic Council

Signature and Date

31/12/2018

Dr. Praachi Gharpure
 Principal and Chairman,
 Academic Council



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Annexure-I

Member secretary presented post graduate diploma courses and their contents for approval. Dr. Sameer S Sahasrabudhe said that instructional design should be the backbone of story telling in VR. He also recommended advertising these courses among our UG and PG classes. He recommended that PGDM students can be mentors for UG students. He suggested starting interdisciplinary 'Summer Term' at the end of semester II and PGDM students can be involved/trained to handle these kinds of workshops.

He suggested being clear in syllabus about 'interaction design' module in case of UX Design course. It should be written in syllabus that interaction design is for website or for devices because these two are completely different experiences. AR courses are lacking in case of PGDM AR/VR hence augmented reality related course need to be introduced. He recommended giving a thought of having project linked to every course rather than one project in a semester. This will help student in implementing the concepts learned in that particular course which probably he/she may not be implementing in one project. He also suggested giving a thought of running an entire project based course. Exact delivery mechanism need to be thought of for music related courses. Dr. D. R. Kalbande also agreed that there is a need to include courses on 'interaction design' in UG syllabus may be in fifth and sixth semester which have potential in increasing employability and long duration internship for all branches.

Dr. Jonathan Joshi, Dr. Kushal Tuckley and Dr. Zia Saquib told that these courses are industry relevant and eleven months exposure to start-ups will help the course. Members recommended that UX design and AR/VR students can collaborate during the implementation of project. Story telling in instruction design can be very well taught using AR/VR and thus instruction design course can go along with AR/VR. Dr. Kushal Tuckley advised to start center of excellence and also told that he will connect S.P.I.T. to the concerned people.

Annexure-II

Highlights of industry feedback in which revamping of first year curriculum and internships were strongly recommended were read by member secretary. Prof. D. M. Patil suggested that S.P.I.T. is proposing more credits to basic sciences in first year than credits proposed by AICTE and less credits to engineering sciences. Prof. D. M. Patil also informed that 3D modeling and 3D printing is included as a part of workshop in first year. Dr. Zia Saquib and Dr. Kushal Tuckley suggested making physics and chemistry laboratory based courses to which all the members agreed unanimously. Dr. Rathod read email by Dr. Chandrate who is a renowned physicist also recommended that these could be laboratory based courses. Dr. Jonathan Joshi and Dr. Kushal Tuckley recommended to design a laboratory based course which will include the contents of Python programming, R programming and Matlab programming and must start in first year itself. Members agreed that 'Applied Mathematics' is a too generic name. They recommended giving a proper title like 'Statistics', 'Linear Algebra' etc. to these courses and also include Matlab programming, R programming and Python Programming in first year mathematics courses. Members recommended to have more lab based engineering courses in the first year of study. Mathematics should also be thought of as laboratory based course rather than tutorial. Applied mechanics and drawing should also be taught more in laboratories.

Dr. Satyanarayana Bheesette through email communicated that physics (classical experiments - electromagnetics, light, semiconductors, sensor detector physics), chemistry (experiments with a technology lookup), applied mechanics (physics + measurement based laboratory session, treatment of data using statistical methods), applied mathematics (problem solving by computing) should all be taught during first year as combined 'classroom + lab' courses.



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Members recommended including Animation course and Design Thinking or UX design as a workshop in first year engineering itself. This will help students in implementing the concepts learning from second year onwards. Otherwise in higher semesters even if these courses are included students may not get enough opportunity to actually implement these concepts. Dr. Sahasrabudhe recommended looking for a course on 3D animation and modeling offered by IIT Bombay. Many universities are using this course as a laboratory course. He also recommended that college should start interdisciplinary eight week 'summer term'. This has to be an interdisciplinary in nature only. Through this term students will be benefitted by acquiring the fundamental knowledge of the other fields which will be useful for them in their real life.

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Minutes of

Fourth Meeting of the

Academic Council

On

Wednesday, January 16, 2019 at 3.00 PM

at

**Conference Room No. 105
 Sardar Patel Institute of Technology
 Andheri (West), Mumbai-58**

Principal

Sardar Patel Institute of Technology
 Bhavans Andheri Campus
 Munshi Nagar, Andheri (West),
 Mumbai - 400 058.



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 16/01/19*



**Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY**

Munshi nagar, Andheri(W), Mumbai – 400 058.
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**Minutes and Action taken report for 4th Academic Council Meeting
of S.P.I.T., Andheri (West), Mumbai.**

Meeting Date: Wednesday, January 16, 2018

Time: 3.00 p.m.

Venue – Sardar Patel Institute of Technology

Following Members were present:

| Sr. No | Name |
|--------|--|
| 1 | Dr. Prachi Gharpure, Principal & Chairman |
| 2 | Dr. Shubha Pandit, Mumbai University Nominee |
| 3 | Dr. R.D. Daruwala, Mumbai University Nominee |
| 4 | Prof. Sunil Bhagwat, Mumbai University Nominee |
| 5 | Dr. Zia Saquib, External Expert |
| 6 | Dr. Jonathan Joshi, External Expert |
| 7 | Dr. Satyanarayana Bhasatte, TIFR, External Expert |
| 8 | Dr. Kushal Tuckley, IIT Bombay, Invitee |
| 9 | Dr. Y.S.Rao, Head Electronics and Telecommunication Engineering Department, Member |
| 10 | Dr. Radha Shankar Mani, Head Information Technology Department, Member |
| 11 | Dr. D.R.Kalbande, Head Computer Engineering Department, Member |
| 12 | Dr. Pooja Roundale, Head Master of Computer Applications, Member |
| 13 | Prof. Kailash Devadkar, Associate Professor, Information Technology Department, Member |
| 14 | Prof. D.D. Ambawade, Associate Professor, Electronics & Telecommunication Engineering Department, Member |
| 15 | Prof. Kiran Talele, Associate Professor, Electronics Engineering Department, Member |
| 16 | Prof. Surekha Dholay, Associate Professor, Computer Engineering Department, Member |
| 17 | Dr. Rajendra Sutar, Associate Professor, Electronics Engineering Department, Invitee |
| 18 | Dr. Sudhir Dhage, Professor, Computer Engineering Department, Invitee |
| 19 | Prof. D.M.Patil, Associate Professor, Applied Sciences & Humanities Department, Invitee |
| 20 | Mrs. Apurva Mohite, Controller of Examination, Invitee |
| 21 | Dr. Surendra Rathod, Dean(Academics) & Member Secretary |

Leave of absence was requested by Dr. Milind Sohoni, Dr. Sameer S Sahasrabuddhe, Dr. V. B. Chandratre, Dr. M. B. Patil, Dr. Suresh Ukarande and Dr. Rita Das



Rathod
22/1/18



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| Sr. No. | Agenda Item | Discussion/Remarks | Decision | Action Taken |
|---------|---|---|--|---|
| 1. | Welcome to members of the Academic Council for Fourth Meeting. | Member secretary, Academic Council Dr. S. S. Rathod started meeting by welcoming members. He informed that Dr. M. B. Patil, IIT Bombay, Dr. Shubha Pandit, KJSCE, Dr. R. D. Daruwala, VJTI and Dr. Sunil Bhagwat, ICT, are the nominee of Mumbai University in AC. Dr. Rathod presented agenda of the meeting and then proceedings of the meeting started | -- | -- |
| 2. | Confirmation of Minutes and Action Taken Report of the Third Meeting of Academic Council held on 14th July 2018. | Member secretary asked about confirmation of minutes of third academic council meeting held on 14 th July 2018. No corrections or suggestions are given by the members and minutes are approved. | Minutes of Academic Council held on 14 th July 2018 are unanimously approved by all the members. | Minutes taken and ATR noted |
| 3. | Approval of revised scheme and course contents for semesters VII and VIII from academic year 2019-20 for UG program in Electronics Engineering, Electronics & Telecommunication Engineering, Computer Engineering and Information Technology | Please refer Annexure-I for detail discussion. | All departments will once again look for minor revisions. AC authorized chairperson to implement final year scheme and contents for all branches from 2019-20 after minor revisions. In order to maintain uniformity for finding rank or award purpose, CGPI to be taken on the basis of VII semester. | Final year scheme, courses and their contents are approved Unanimously. To be implemented from academic year 2019-20. |



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| 4. | Liberal art courses | Dr. Rathod Presented various new Liberal art courses added to the present liberal arts courses. He proposed to offer these courses from 2019-20 to First year and Second Year as per scheme. Dr. Daruwala recommended to change the name 'Liberal Art'. | Courses and their contents are approved Unanimously | To be implemented from academic year 2019-20. Liberal arts name is changed to 'Life Skill Courses' |
| 5. | Mandatory elective courses | Put forward for approval of addition of new courses Mandarin and Japanese. It was recommended to change 'Mandatory Elective Course' to 'Mandatory Elective' | Courses and their contents are approved Unanimously. MEC will be changed to MC for students admitted in first year in 2019-20. | To be implemented from academic year 2019-20. |
| 6. | Minor Changes in SE and TE course contents | Put forward for approval. | Approved Unanimously | EXTC department instructed to do the changes in syllabus and upload on website immediately. |
| 7. | Monitoring and Evaluation of Internship | Dr. Rathod presented the monitoring and evaluation of semester long internship and the detail manual prepared by Dean Industry Relations Dr. D. R. Kalbande. Dr. Jonathan Joshi suggested that institute can allow for research internships under institute faculty. Dr. Shubha Pandit recommended to put 'attendance' as a criteria in internship evaluation rather than discipline and there should be redressal mechanism on case to case basis for evaluation of internships. | Monitoring and evaluation mechanism in unanimously approved. | To be implemented from academic year 2019-20. |



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| | | Dr Daruwala recommended that for all internships, S.P.I.T. approval is must and there should be a grade penalty for students accepting internship and not joining a company or joining a company but not completing internship. | | |
| 8. | First year Curriculum Scheme to be implemented from academic year 2019-20. | Please refer Annexure- II for detail discussion. | Applied Mechanics can be part of Physics and not offered as a separate course. Chemistry can contain thermodynamics. One more relevant 'open elective' course in the area of mechanics at SEM VI level can be offered as a prerequisite to automation and robotics courses. The proposed first year curriculum scheme was unanimously approved as it is. | Faculty to prepare the detail syllabus as per the scheme approved in AC. |
| 9. | Curriculum scheme for UG Courses as per new AICTE Guidelines for 160 Credits | Dr. Rathod presented the new scheme for Second Year, Third Year and Final Year to be adopted for first year batch admitted in 2019-20. Dr. Rathod presented the idea of offering additional courses to fast learners. It was well appreciated by everyone. Dr. Daruwala recommended having CGPA as a CAP for | The scheme was unanimously finalized and approved. Now respective departments can put the course names in the scheme and get approval of respective BoS. | All departments will be instructed to prepare the scheme as per the decided format and put for approval in next academic council. |



22/VI/12

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| | | student registrations. It can be interdisciplinary course. He also suggested using terminology 'Non-credit' and not 'audit' courses. | | |
| 10. | Student Exchange Programme | Postponed for next meeting. | Postponed for next meeting. | -- |
| 11 | Any other matter with permission of chair. | Dr. Daruwala said that 'Open Elective' can be offered from first year faculty also. | To be informed to first year faculty. | -- |
| | | Member secretary informed that all the items of agenda are discussed and meeting ended with vote of thanks. | | |

Annexure-I

Dr. Rathod presented revised scheme and course contents for semesters VII and VIII from academic year 2019-20 for UG program in Electronics Engineering, Electronics & Telecommunication Engineering, Computer Engineering and Information Technology are presented.

Dr. Y. S. Rao suggested to look once again to overall credits offered in final year and recommended to make IP as 3 credit course. Dr. Rathod replied that it was done to have uniform credits across all the departments. To this Dr. Daruwala and Dr. Shubha Pandit said that it is not necessary to have same credits for all branches to offer the degree. Then it is decided that these schemes can be once again looked by the department and minor changes can be done. Dr. Jonathan suggested having a look on project I and II nomenclature for category I and II students. Dr. Rathod informed that it was a typing mistake. Dr. Shubha Pandit recommended being careful about the calculation of CGPI and conduct of examination for 'Open Elective' courses. She suggested that in order to maintain uniformity for finding rank or award purpose, CGPI to be taken on the basis of VII semester. This can be further discussed in examination committee.

Annexure-II

Dr. Rathod proposed scheme for First Year 2019-20. Dr. Rathod invited Prof. D. M. Patil to express his opinion about 'Mechanics' course. Prof. D. M. Patil expressed his displeasure in shifting of the 'Mechanics' course. He spoke for more than 20 minutes quoting various examples/survey/applications. He raised his concerns about introduction of digital circuit's course in first year and intentions about removing mechanics course.

Then Dr. Rathod gave the justification of necessity of introducing digital circuits at first year level. He clarified why it is necessary to shift one common course from all branches to first year by presenting detail scheme with 160 credits.

Dr. Sunil Bhagwat started discussion on this point stating that primary beneficiary of education should be society. He has asked for the comparison of existing first year and the proposed curriculum which was then shown by Dr. Rathod.



Dr. Rathod
 24/10/19
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 Dr. Sunil Bhagwat
 24/10/19
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Dr. Prachi Gharpure explained the necessity of shifting Applied Mechanics course to higher semester. She informed that S.P.I.T. recruiters are majorly financial & IT companies needing applied courses related to the domain.

Prof. Surekha Dhole said that engineering mechanics is useful in Robotics and Automation. Dr. Sudhir Dhage and Prof. Surekha Dhole were of the opinion that Engineering Mechanics is the fundamental Engineering course. Its basic principles are required in Robotics, artificial intelligence, Machine learning and automation. Dr. Jonathan Joshi, Dr. Shubha Pandit, Dr. Kushal Tuckley and Dr. Zia Saquib discussed about solution to this problem. Dr. Sunil Bhagwat was of the opinion that we should keep what society wants in the syllabus to which Dr. Rathod explained about various other courses introduced in the curriculum.

Dr. Satyanarayana said industries always want students ready to work from day one. It does not mean we should chop the basics and keep advance courses in lower semesters.

Dr. Sunil Bhagwat asked whether this course will affect skills of students to which Dr. Rathod replied that as per NBA graduate attributes it will not affect because there are many courses through which application of engineering knowledge, analysis and design skills can be taught. Dr. Y. S. Rao suggested that correct positioning of the course in higher semester. Dr. Rathod also read the messages of Dr. M. B. Patil and Dr. Sameer Sahastrabudhe supporting the shift in the mechanics course to higher semester.

When asked about the % distribution Dr. Rathod presented it to the council. After observing that there is no professional core course taught in first year, it was decided that digital circuit credits can come under professional core in first year. Dr. Sunil Bhagwat then suggested to put branch relevant contents of mechanics course in physics course.

He said physics and mechanics can be one course which was seconded by Dr. Y. S. Rao. Finally it is unanimously resolved that Applied Mechanics can be part of Physics and not offered as a separate course. Modify Physics and Chemistry Syllabus. Chemistry can contain thermodynamics. The contents of these courses must be modified as per requirement of branches.

Dr. Rathod suggested having one more relevant 'open elective' course at SEM VI level can be offered as a prerequisite to automation and robotics which was unanimously accepted by all. After decision Dr. Rathod asked to Prof. D. M. Patil whether he agree to it to which he has given affirmative reply.

Signature and Date

Dr. S. S. Rathod

Dean (Academics) and Member Secretary,
Academic Council

Signature and Date

Dr. Prachi Gharpure

Principal and Chairman,
Academic Council



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Sardar Patel Institute of Technology

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Attendance of Fourth Academic Council Meeting Held on 16th Jan 2019

| S.N. | Name | Designation | Signature |
|------|-----------------------------|------------------|--------------------|
| 1 | Dr. Prachi Gharpure | Chairman | Gharpure |
| 2 | Dr. Surendra Rathod | Member Secretary | Rathod |
| 3 | Dr. Milind Sohoni | Member | |
| 4 | Dr. Zia Saquib | Member | Zia Saquib |
| 5 | Dr. Satyanarayana Bheesette | Member | Bheesette |
| 6 | Dr. Jonathan Joshi | Member | Jonathan Joshi |
| 7 | Dr. V. B. Chandratre | Invitee | |
| 8 | Dr. Suresh Ukarande | Invitee | |
| 9 | Dr. Sameer S Sahasrabuddhe | Invitee | |
| 10 | Dr. Kushal Tuckley | Invitee | Kushal Tuckley |
| 11 | Dr. M. B. Patil | MU Nominee | M. B. Patil |
| 12 | Dr. Shubha Pandit | MU Nominee | Shubha Pandit |
| 13 | Dr. R.D. Daruwala | MU Nominee | R.D. Daruwala |
| 14 | Prof. Sunil Bhagwat | MU Nominee | Sunil Bhagwat |
| 15 | Dr. Y.S.Rao | Member | Y.S.Rao |
| 16 | Dr. D.R.Kalbande | Member | D.R.Kalbande |
| 17 | Dr. Rita Das | Member | Rita Das |
| 18 | Dr. Radha Shankar Mani | Member | Radha Shankar Mani |
| 19 | Dr. Pooja Roundale | Member | Pooja Roundale |
| 20 | Prof. D.D. Ambawade | Member | D.D. Ambawade |
| 21 | Prof. Surekha Dholay | Member | Surekha Dholay |
| 22 | Prof. Kailash Devadkar | Member | Kailash Devadkar |
| 23 | Prof. Kiran Talele | Member | Kiran Talele |
| 24 | Prof. D.M.Patil | Invitee | D.M.Patil |
| 25 | Dr. Sudhir Dhage | Invitee | Sudhir Dhage |
| 26 | Dr. Rajendra Sutar | Invitee | Rajendra Sutar |
| 27 | Mrs. Apurva Mohite | Invitee | Apurva Mohite |

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16-1-19

Bharatiya Vidya Bhavan's
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Minutes of
 Fifth Meeting of the
 Academic Council

On

Tuesday, May 14, 2019 at 3.00 PM

at

Conference Room No. 105
 Sardar Patel Institute of Technology
 Andheri (West), Mumbai-58

[Signature]
 Dr. Surendra Rathod
 Dean Academics
 Bharatiya Vidya Bhavan's
 Sardar Patel Institute of Technology
 Andheri (West), Mumbai-58.



[Signature]
 Dr. Prachi Gharpure
 Principal
 Bharatiya Vidya Bhavan's
 Sardar Patel Institute of Technology
 Munshi Nagar, Andheri (W),
 Mumbai - 400 058.





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Minutes for 5th Academic Council Meeting of S.P.I.T., Andheri (West), Mumbai.

Meeting Date: Tuesday, May 14, 2019

Time: 3.00 p.m.

Venue – Sardar Patel Institute of Technology

Following Members were present:

| Sr. No | Name |
|--------|--|
| 1 | Principal & Chairman (Dr. Prachi Gharpure) |
| 2 | Mumbai University Nominee (Dr. M. B. Patil) |
| 3 | Mumbai University Nominee (Dr. R.D. Daruwala) |
| 4 | External Expert (Dr. Satyanarayana Bhasatte, TIFR) |
| 5 | HoD EXTC (Dr. Y. S. Rao) |
| 6 | HoD IT (Dr. Radha Shankar Mani) |
| 7 | HoD Comp (Dr. D. R. Kalbande) |
| 8 | HoD ASH (Dr. Rita Das) |
| 9 | Sr. Member (Prof. Kailash Devadkar) |
| 10 | Sr. Member (Prof. D.D. Ambuwade) |
| 11 | Sr. Member (Prof. Surekha Dholay) |
| 12 | Dean(Academics) & Member Secretary (Dr. Surendra Rathod) |

Leave of absence was requested by Dr. Milind Sohoni, Dr. Sameer S. Sahasrabuddhe, Dr. Shubha Pandit, Prof. Sunil Bhagwat, Dr. Zia Saquib, Dr. Jonathan Joshi, Dr. Kushal Tuckley, Prof. Kiran Talele, Dr. Pooja Rourdale and Mrs. Apurva Mohite

For me
Dr. Surendra Rathod

Dean Academics
Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology



True
Dr. Prachi Gharpure
Principal
Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W).
Mumbai - 400 058.



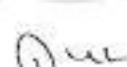
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| Sr. No. | Agenda Item | Discussion/Remarks | Decision |
|---------|---|--|--|
| 1. | Welcome to members of the Academic Council for Fourth Meeting. | Member secretary started meeting by welcoming members. He presented agenda of the meeting and then proceedings of the meeting started | -- |
| 2. | Confirmation of Minutes and Action Taken Report of the Third Meeting of Academic Council held on 16 th Jan 2019. | Member secretary asked about confirmation of minutes of third academic council meeting held on 16 th Jan 2019. No corrections or suggestions are given by the members and minutes are approved. | Minutes of Academic Council held on 16 th Jan 2019 are unanimously approved by all the members and ATR noted. |
| 3. | Minor revision in BE Electronics Scheme and Syllabus for academic year 2019-20 | HoD Electronics presented the revisions in the BE Electronics scheme and syllabus. He has given information about the student feedback and based on that introduction of two courses namely 'Image Processing and its Applications' and 'Mixed Signal VLSI Design' | Final year Electronics scheme, courses and their contents are approved Unanimously. |
| 4. | First year MCA Scheme and Syllabus to be implemented for batch 2019-22. | <p>Following corrections are recommended:</p> <ol style="list-style-type: none"> 1. Either OS lab to be included or OS tutorials can be considered lab based 2. OOP lab is too primitive. Revise depth for OOP lab. It may be considered as project based lab. OOP and SE lab can be combined in order to explore the concept of OOP for SE (Software Engineering) Projects as it is needed for application development for MCA students. Similarly OS and CN lab can be combined to explore the concept of OS for CN applications. For the above, proper COs need to be designed w.r.t. bloom's level and integrated approach to be followed for laboratory experiments. 3. Linux lab seems to be designed to impart only working knowledge. Shell script and text processing should be included. 4. Plotting/Visualization aspect to be included in Python Lab. 5. Create a separate document for teaching and evaluation methodology for all the courses and remove it from curricula. | In principle syllabus is approved. Chairperson to oversee the suggested corrections. |


Dr. Surendra Rathod
Dean Academics




Dr. Prachi Gharpure
Principal
Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology





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| 5. | <p>Scheme and syllabus of SYMCA, TYMCA for batch 2018-21</p> | <p>Scheme and syllabus of SYMCA, TYMCA for batch 2018-21 was presented.</p> <ol style="list-style-type: none"> 1. Contents of Computational Intelligence (CI) I and II should be reduced. Chapter 4 of CI-I is not in tune with rest of the syllabus and can be removed. This course should have application based teaching and not theory. Focused view should be there to create this syllabus and do not try to mix the contents. 2. GI Lab courses also need revision. Focus as what is most relevant as placement and rest either can be removed or given a peripheral knowledge. 3. Relook at the book list of CI-I and CI-II. Max. 5 books should be recommended. | <p>Approved Unanimously.</p> |
| 6. | <p>Minor revision in M.Tech. Electronics and Telecommunication Scheme and Syllabus</p> | <p>Minor revision in M.Tech. Electronics and Telecommunication Syllabus for courses Digital Forensic and Network Security was presented by Prof. Ambawade.</p> | <p>Approved Unanimously.</p> |
| 7. | <p>First year UG Scheme and Syllabus to be implemented from academic year 2019-20</p> | <p>First year UG Scheme and Syllabus is presented to the council in which following corrections were recommended:</p> <ol style="list-style-type: none"> 1. Engineering Physics course: Minor revision in contents of Chapter 5.53 is required to include contents relevant to MEMS or Robotics rather than belts and rope drives. Dr. Satyanarayana accepted to communicate relevant contents. 2. Recommended number of books to be limited to 4 or 5. If required, then old system of text book and reference can be introduced. 3. Digital Circuits course: Four hours can be removed from chapter 3 and added to combinational logic 4. Digital Circuits Simulation Lab: Overall expert opinion is about the hardware implementation. Experiment design to be relooked at. Dr. Rao suggested that 50% simulation and 50% hardware can be done. 5. All courses should have total 39 hours of syllabus (for 3 credit). 6. 'Intermediate Communication skills' course title can be changed to 'Communication Skills'. | <p>In principle syllabus is approved. Chairperson to oversee the suggested corrections.</p> |


Dr. Surendra Rathod
 Dean Academics
 Bharatiya Vidya Bhavan's




Dr. Prachi Gharpure
 Principal
 Bharatiya Vidya Bhavan's
 Sardar Patel Institute of Technology



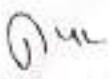
**Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY**

Munshi nagar, Andheri(W), Mumbai - 400 058.
(Autonomous Institute Affiliated to University of Mumbai)

| | | | |
|-----|--|--|---|
| 8. | Approval of Academic Calendar for 2019-20 | Member secretary presented academic calendar for 2019-20. Principal informed to the council about the UGC regulation related to 36 week teaching learning and 6 week vacation. Prof. Surendra asked that are we following UGC regulations to which principal replied that for preparing academic calendar UGC is the regulating body and we have to follow UGC regulation the latest being UGC regulation 2018. It is also recommended to put M.Tech Examination in May and Submission date to be 30 th June. | Approved Unanimously |
| 9. | Yoga Teachers Training Certificate Course | Scheme and Syllabus for one year Yoga Teachers Training Certificate Course is proposed. Member Secretary informed about the purpose and modality of the course. | Approved Unanimously |
| 10. | Sound Engineering Course | Scheme and Syllabus for one year Post Graduate diploma in sound engineering is proposed. It is informed to the council that Indian Music Lab (IML) will have the responsibility of execution of the course. Members have discussed about the feasibility of successful execution of course by IML, including the eligibility of trainers. | In principle it is approved. Moll conditions with Indian Music Lab to be carefully studied. |
| 11 | Student Exchange Programme | Dr. Rathod informed that Moll is signed with Fontys university, Netherlands. | -- |
| | Any other matter with permission of chair. | Dr. Rao informed about the admission status of M.Tech courses and guide allocation policy. Members were of the opinion that S.P.I.T. PG programs are not known to the people other than Mumbai region. Efforts towards creating awareness about these programs and providing accommodation to the candidates are required. Challenges in project allocation are also debated and it is recommended to have rotation policy. In next academic year preference should be given to the faculty members who have not been given project this year. | Institute will make efforts towards branding and implement rotation policy. |


Dr. Surendra Rathod
Dean Academics




Dr. Prachi Gharpure
Principal
Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology

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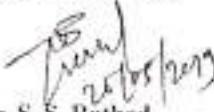


Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY

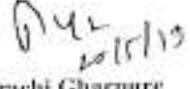
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Member secretary informed that all the items
 of agenda are discussed and meeting ended
 with vote of thanks.

Signature and Date


 Dr. S. S. Rathod
 Dean (Academics) and Member Secretary,
 Academic Council

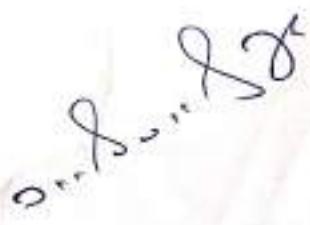
Signature and Date


 Dr. Prachi Gharpure
 Principal and Chairman,
 Academic Council









AD



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
 (Autonomous Institute Affiliated to University of Mumbai)

| Course Code | Course Name | Teaching Scheme (Hrs/week) | | | Credits Assigned | | | |
|--------------------|------------------|----------------------------|---|-----|------------------|-----|---|-------|
| | | L | T | P | L | T | P | Total |
| | | 4 | - | - | 4 | -- | - | 4 |
| Examination Scheme | | | | | | | | |
| ETL921 | Digital Forensic | ISE | | MSE | | ESE | | Total |
| | | 20 | | 20 | | 60 | | 100 |

| Pre-requisite Course Codes | |
|--|---|
| After successful completion of the course, student will be able to | |
| Course Outcomes | CO1 Describe the fundamentals of Digital Forensic and systematic process of collection of digital evidences. |
| | CO2 Analyze and use various forensics toolkits. |
| | CO3 Analyze perspectives of digital forensic investigation in various applications/portable devices like Windows/Unix/Android system, networks based etc. |
| | CO4 Generate legal evidences and supporting investigation reports. |

| Module | Topics | Ref. | Hrs |
|--------|--|-------|-----|
| 1 | Introduction to Digital Forensics: computer crimes, evidence, extraction, preservation, etc. Overview of hardware and operating systems: structure of storage media/devices; windows/Macintosh/ Linux -- registry, boot process, file systems, file metadata. | 1,2 | 8 |
| 2. | Data recovery: identifying hidden data, Encryption/Decryption, Steganography, recovering deleted files. Digital evidence controls: uncovering attacks that evade detection by Event Viewer, Task Manager, and other Windows GUI tools, data acquisition, disk imaging, recovering swap files, temporary & cache files Computer Forensic tools: Encase, Helix, FTK, Autopsy, Sleuth kit, Forensic Browser, FIRE, Found stone Forensic ToolKit, WinHex, Linux dd and other open source tools. | 1,2 | 12 |
| 3. | Network Forensic: Collecting and analyzing network-based evidence, reconstructing web browsing, e-mail activity, and windows registry changes, intrusion detection, tracking offenders, etc. Mobile Network Forensic: Introduction, Mobile Network Technology, Investigations, Collecting Evidence, Where to seek Digital Data for further Investigations, Interpretation of Digital Evidence on Mobile Network. | 1,2,4 | 10 |

Dr. Surendra Rathod
 Asst. Prof.



Dr. Prachi Gharpure
 Principal

Sehrifly





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| | | | |
|----|---|-------|----|
| 4. | Software Reverse Engineering: defend against software targets for viruses, worms and other malware, improving third-party software library, identifying hostile codes-buffer overflow, provision of unexpected inputs, etc. | | 5 |
| 5. | Computer crime and Legal issues: Intellectual property, privacy issues, Criminal Justice system for forensic, audit/investigative situations and digital crime scene, investigative procedure/standards for extraction, preservation, and deposition of legal evidence in a court of law. | 1,2,3 | 7 |
| | Total | | 42 |
| | | | |

Reference Books:

1. *Digital Forensics with Open Source Tools*. Cory Altheide and Harlan Carvey, ISBN: 978-1-59749-586-8, Elsevier publication, April 2011
2. *Computer Forensics and Cyber Crime: An Introduction (3rd Edition)* by Marjie T. Britz, 2013.
3. *Network Forensics: Tracking Hackers Through Cyberspace*, Sherri Davidoff, Jonathan Ham Prentice Hall, 2012
4. Digital Forensic, Dr. Nilakshi Jain and Dr. D. Kalbande, Wiley Publications

Dr. Surendra Rathod
 Dean Academics
 Bharatiya Vidya Bhawan's
 Sardar Patel Institute of Technology
 Munshi Nagar, Andheri (W), Mumbai-400058.



Dr. Prachi Gharpttre
 Principal
 Bharatiya Vidya Bhawan's
 Sardar Patel Institute of Technology
 Munshi Nagar, Andheri (W), Mumbai - 400 058.





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| Course Code | Course Name | Teaching Scheme (Hrs/week) | | | Credits Assigned | | | |
|--------------------|------------------|----------------------------|---|-----|------------------|-----|---|-------|
| | | L | T | P | L | T | P | Total |
| | | 4 | - | - | 4 | -- | - | 4 |
| Examination Scheme | | | | | | | | |
| ETL922 | Network Security | ISE | | MSE | | ESE | | Total |
| | | 20 | | 20 | | 60 | | 100 |

Pre-requisite Course Codes

After successful completion of the course, student will be able to

| | | |
|-----------------|-----|--|
| Course Outcomes | CO1 | Describe security threats and apply security techniques using cryptosystems. |
| | CO2 | Explain the key terms and concepts in cyber law, intellectual property and cyber crimes, trademarks and domain theft |
| | CO3 | Build and configure firewall and intrusion detections systems' using GNU open source security tools. |
| | CO4 | Incorporate approaches for incident analysis and response, for risk management and best practices and digital evidence collection, and evidentiary reporting in forensic acquisition |
| | | |

| Module | Topics | Ref. | Hrs |
|--------|--|-------|-----|
| 1 | Introduction to Network and Cybersecurity: Need for network security, Attacks and Their classification Network Vulnerabilities and control Security services and mechanisms, Impact of Security on Enterprises Risk Factors and Cost Analysis. | 1,2,3 | 8 |
| 2. | Introduction to Cryptography Algorithms: Classical and modern cryptography, stream and block ciphers, Message digest, digital signature, digital certificate, certificate authority, cryptanalysis DES/AES/RSA/RC4/MD5/SHA algorithms Secure protocols SSL, IPSec, VPN, PKI Implementing security using symmetric and Public-Key cryptography. Steganography and DRM | 1,2,3 | 12 |
| 3. | Ethical Hacking and Network defences Cybercrimes, Cybercriminals, Cyberoffences, Cybercrimes in Mobile and Wireless Devices, Tools and Methods used in Cybercrimes Network reconnaissance, scanning and sniffing, gaining access. Security Technologies: Firewall, IDS and Antivirus. | 6,7 | 10 |

Dr. Surendra Rathod



Dr. Prachi Gharpure
Principal





Sardar Patel Institute of Technology

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| | | | |
|-------|--|-----|---|
| | Reverseproxy L7 content filtering firewall, NAT & reverse proxy, Firewall deployment and limitations, selection of firewalls. Performance analysis of firewall, Signature and Anomaly based IDSs, IDS deployment, zone diagram, performance analysis of IDS, strengths and Limitations of IDS. | | |
| 4. | Advanced Security Techniques: Captcha, QR code, OTP, multi-factor authentication etc | 8,9 | 5 |
| 5. | System Security and Case-Studies: Security Operations Center (SOC), Network Operations Centres (NOC) Network Security Audit SET, Biometric Security, Digital Immune System | 6 | 7 |
| Total | | 42 | |
| | | | |

References:

- [1] Cryptography and Network Security by BehrouzForouzanMcGrawHill Publications
- [2] Security in Computing by Pfleeger and Pfleeger, Pearson Publications
- [3] Management of Information Security by M. Whitman Cengage Publications
- [4] Cryptography and Network Security by B. Menzanes, Elsevier
- [5] Computer Security by Matt Bishop, Pearson Publication
- [6] Cryptography and Network Security by William Stallings, Pearson publications.
- [7] Cyber Security by Nina Godbole, John Wiley Publications
- [8] <http://www.nacs.org/LinkClick.aspx?fileticket=D1FpVAvvJuo%3D&tcbid=1426&cmid=4802>
- [9] All about CAPTCHAS , Benjamin Boyer, Publisher amazon

Dr. Surendra Rathod

Deputy Director

Bhartiya Vidya Bhawan's

Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W), Mumbai-58.

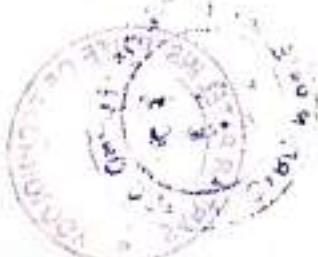


Dr. Prachi Gharpure

Principal

Bhartiya Vidya Bhawan's

Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W),
Mumbai - 400 058.





Sardar Patel Institute of Technology
Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

86

| Course Code | Course Name | Teaching Scheme (Hrs/week) | | | Credits Assigned | | | |
|-------------|-------------|----------------------------|----|-----|------------------|-----|-------|-------|
| | | L | T | P | L | T | P | Total |
| ETL925 | PG Lab-IV | -- | -- | 2 | -- | -- | 1 | 1 |
| | | Examination Scheme | | | | | | |
| | | ISE | | MSE | | ESE | Total | |
| | | 40 | | 10 | | 10 | 60 | |

Pre-requisite Course Codes

After successful completion of the course, student will be able to:

| | | |
|-----------------|-----|--|
| Course Outcomes | CO1 | Identify and select the suitable components for IoT implementation |
| | CO2 | Use the various hardware development platforms for IoT |
| | CO3 | Use the various software frameworks for IoT |
| | CO4 | Interface IoT with cloud and carry out the analytics |

| Exp. No. | Experiment Details | Ref. | Marks |
|----------|---------------------------|-------------|-------|
| 1 | IoT Components and Set-up | | 5 |
| 2 | IoT Sensors and Actuators | | 5 |
| 3 | IoT Development Platform | | 5 |
| 4 | IoT Development Framework | | 5 |
| 5 | IoT and Cloud | | 5 |
| 6 | IoT analytics | | 5 |
| 7 | Mini Project | | 10 |
| 8 | | Total Marks | 40 |

Changed

Dr. Preethida V-Jain:

Incharge - A. D. Ambarkade

Senthil
Senthil

C J S



Sardar Patel Institute of Technology

Bhavani's Campus, Mumbra Nigdi, Andheri (West), Mumbai - 400058, India

| Course Code | Course Name | Teaching Scheme (Half week) | | | Credits Assigned | | | |
|----------------|-------------|-----------------------------------|-----|----|------------------|-----|-------|-------|
| | | L | T | P | L | T | P | Total |
| ETL 925 | PG Lab-IV | .. | .. | 2 | .. | .. | 1 | 1 |
| | | ISE | MSE | | ISE | MSE | Total | 60 |
| | | 40 | 10 | 10 | 10 | 10 | 60 | |

Pre-requisite Course Codes

After successful completion of the course, student will be able to

- CO1 Identify and select the suitable components for IoT implementation
- CO2 Use the various hardware development platforms for IoT
- CO3 Use the various software frameworks for IoT
- CO4 Interface IoT with cloud and carry out the analytics

| Exp. No. | Experiment Details | Ref. | Marks |
|----------|---------------------------|------|-------|
| 1 | IoT Components and Set-up | | 5 |
| 2 | IoT Sensors and Actuators | | 5 |
| 3 | IoT Development Platform | | 5 |
| 4 | IoT Development Framework | | 5 |
| 5 | IoT and Cloud | | 5 |
| 6 | IoT analytics | | 5 |
| 7 | Mini Project | | 10 |
| 8 | | | |
| | Total Marks | | 40 |



Sardar Patel Institute of Technology

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| Course Code | Course Name | Teaching Scheme (Hrs/week) | | | Credits Assigned | | | |
|---------------------------|-------------|----------------------------|----|-----|------------------|-----|---|-------|
| | | L | T | P | L | T | P | Total |
| ETL925 | PG Lab - IV | -- | -- | 2 | -- | -- | 2 | 1 |
| Examination Scheme | | | | | | | | |
| | | ISE | | MSE | | ESE | | Total |
| | | 40 | | -- | | 20 | | 60 |

Pre-requisite Course Codes

After successful completion of the course, student will be able to

| | | |
|-----------------|-----|---|
| Course Outcomes | CO1 | Identify and select the suitable tools for given experiments objectives |
| | CO2 | Install, configure and develop crypto systems |
| | CO3 | Setup and use Digital forensic investigation tools |
| | CO4 | Interface IoT with suitable secure protocol and analyse |

| Exp No. | Experiment Details | Ref. | Marks |
|---------|--|------|-------|
| 1. | Implementing PKI using open source crypto framework | | 5 |
| 2. | Install and configure IDS/IPS | | 5 |
| 3. | Vulnerability assessment and penetration testing (VAPT) | | 5 |
| 4. | Digital forensic analysis using open source tools (e.g Sleuth kit, coronary toolkit) | | 5 |
| 5. | Implementing Biometric authentication | | 5 |
| 6. | Ethical hacking - Malware detection and protection (e.g backdoor, binding) | | 5 |
| 7. | Implementing Message queuing and Telemetry Transport (MQTT) | | 5 |
| 8. | Securing and analyzing MQTT | | 5 |
| | Total | | 40 |
| | Mini Project (ESE Component) | | 20 |





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 (Autonomous Institute Affiliated to University of Mumbai)

| Course Code | Course Name | Teaching Scheme (Hrs/week) | | | Credits Assigned | | | |
|-------------|-------------|----------------------------|----|-----|------------------|-----|-------|-------|
| | | L | T | P | L | T | P | Total |
| | | -- | -- | 2 | -- | -- | 2 | 1 |
| ETL925 | PG Lab - IV | Examination Scheme | | | | | | |
| | | ISE | | MSE | | ESE | Total | |
| | | 40 | | -- | | 20 | 60 | |

Pre-requisite Course Codes

After successful completion of the course, student will be able to

| | | |
|-----------------|-----|---|
| Course Outcomes | CO1 | Identify and select the suitable tools for given experiments objectives |
| | CO2 | Install, configure and develop crypto systems |
| | CO3 | Setup and use Digital forensic investigation tools |
| | CO4 | Interface IoT with suitable secure protocol and analyse |

| Exp No. | Experiment Details | Ref. | Marks |
|---------|--|------|-------|
| 1. | Implementing PKI using open source crypto framework | | 5 |
| 2. | Install and configure IDS/IPS | | 5 |
| 3. | Vulnerability assessment and penetration testing (VAPT) | | 5 |
| 4. | Digital forensic analysis using open source tools (e.g Sleuth kit, coronary toolkit) | | 5 |
| 5. | Implementing Biometric authentication | | 5 |
| 6. | Ethical hacking - Malware detection and protection (e.g backdoor, binding) | | 5 |
| 7. | Implementing Message queuing and Telemetry Transport (MQTT) | | 5 |
| 8. | Securing and analyzing MQTT | | 5 |
| | Total | | 40 |
| | Mini Project (ESE Component) | | 20 |

Dr. Preethi V. Jani

[Signature]



Dayanand Ambawade

[Signature]





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

| Course Code | Course Name | Teaching Scheme (Hrs/week) | | | Credits Assigned | | | |
|-------------|-----------------------|----------------------------|-----|-----|------------------|----|----|-------|
| | | L | T | P | L | T | P | Total |
| ETE92X | Error Correction Code | 4 | -- | -- | 4 | -- | -- | 4 |
| | | Examination Scheme | | | | | | |
| | | Theory Marks | | | | | | |
| | | ISE | MSE | ESE | Total | | | |
| | | 20 | 20 | 60 | 100 | | | |

| | |
|--|---|
| Pre-requisite Course Codes | Digital Communication |
| After successful completion of the course students will able to: | |
| Course Outcomes | CO1 Apply Galois field theory to Error correction codes |
| | CO2 Design methodology of Error correction codes for wired/wireless communication systems |
| | CO3 Analyzing algorithms for Error correction codes |
| | CO4 Improving depth of Concepts through case studies |

| Module No. | Unit No. | Topics | Ref. | Hr. |
|------------|----------|--|------|-----|
| 1 | | Introduction to Algebra: Groups, Fields, Binary Field Arithmetic, Construction of Galois Field GF (2 ^m) and its basic properties, Computation using Galois Field GF (2 ^m) Arithmetic, Vector spaces and Matrices. | | 8 |
| 2 | | Linear Codes: Block codes: Generator and Parity check Matrices, Encoding circuits, Syndrome and Error Detection, Minimum Distance Considerations, Error detecting and Error correcting capabilities, Standard array and Syndrome decoding, Decoding circuits, Hamming Codes, Reed – Muller codes, Golay code, Product codes and Interleaved codes. Cyclic Codes: Introduction, Generator and Parity check Polynomials, Encoding using Multiplication circuits, Systematic Cyclic codes – Encoding using Feedback shift register circuits, Generator matrix for Cyclic codes, Syndrome computation and Error detection, Meggitt decoder, Error trapping decoding, Cyclic Hamming codes, Golay code, Shortened cyclic codes. | | 10 |
| 3 | | BCH Codes Binary primitive BCH codes, Decoding procedures, Implementation of Galois field Arithmetic, Implementation of Error correction. Non – binary BCH codes: q – ary Linear Block Codes, Primitive BCH codes over GF (q), Reed – Solomon Codes, Decoding of Non – Binary BCH and RS codes: The Berlekamp - Massey Algorithm. | | 10 |
| 4 | | Convolutional Codes: Encoding of Convolutional codes, Structural properties, Distance | | 10 |

SLR ~~✓~~





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

| | | |
|--------------|--|----|
| | properties, Viterbi Decoding Algorithm for decoding, Soft – output Viterbi Algorithm, Stack and Fano sequential decoding Algorithms, Majority logic decoding. | |
| 5 | Concatenated Codes and Turbo Codes: Single level Concatenated codes, Multilevel Concatenated codes, Soft decision Multistage decoding, Concatenated coding schemes with Convolutional Inner codes, Introduction to Turbo coding and their distance properties, Design of Turbo codes | 10 |
| 6 | Applications: Case studies of ECC related to various wired and wireless Communication Networks, Neural Networks, DVB and DAB, Cognitive Radio | 10 |
| Total | | 48 |

References:

- [1] Shu Lin & Daniel J. Costello, Jr. "Error Control Coding" Prentice Hall, Second Edition, 2004.
- [2] S. B Wicker, Error Control Systems for Digital Communication and Storage, Prentice Hall International, 1995.
- [3] Blahut R. E, Theory and Practise of Error Control Codes, Addison Wesley, 1983
- [4] Blahut R.E., Algebraic codes for Data transmission, Cambridge University Press, 2003

- ① No of Lectures 1 hrs/ Week "3" charged
 Teaching Scheme "3" charged
~~Teaching Credits~~
- ② No of Hours/ Module charged
- ③ Module 6 deleted.

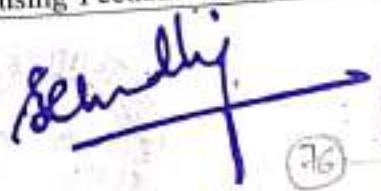
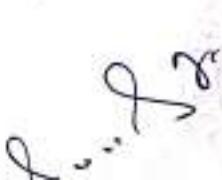
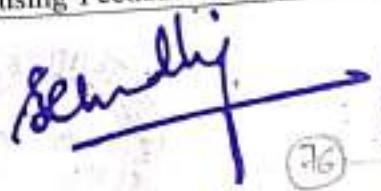
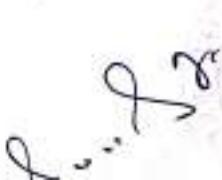


S. Kulkarni
 Mr. SUKANYA A. KULKARNI
 15/1/19

| Course Code | Course Name | Teaching Scheme (Hrs/week) | | | Credits Assigned | | | |
|-------------------------|------------------------|-------------------------------|-----|-----|------------------|---|-----------|-------|
| | | L | T | P | L | T | P | Total |
| ME SEM II (Elective) | Error Correction Codes | 3 | - | - | 3 | - | - | 3 |
| Course Code | | Examination Scheme | | | | | | |
| ETE92A | Error correction codes | Theory Marks | | | Term Work | | Practical | Oral |
| | | ISE | MSE | ESE | - | | - | |
| | | 20 | 20 | 60 | - | | - | |
| | | 100 | | | | | | |

| | | | | |
|----------------------------|--------------|---|--|--|
| Pre-requisite Course Codes | ET911, ET912 | | | |
| | | Student will be able to | | |
| | CO1 | Apply Galois field theory to Error correction codes | | |
| | CO2 | Design methodology of Error correction codes for wired/wireless communication systems | | |
| | CO3 | Analyzing algorithms for Error correction codes | | |
| | CO4 | Solve problems related to various ECC | | |

| Module No. | Unit No. | Topics | Ref. | Hrs. |
|------------|----------|---|-------|------|
| 1 | | Introduction to Algebra Groups, Fields, Binary Field Arithmetic, Construction of Galois Field GF (2 ^m) and its basic properties, Computation using Galois Field GF (2 ^m) Arithmetic, Vector spaces and Matrices | 1,2,3 | 08 |
| 2 | 2.1 | Linear Block Codes Block codes: Generator and Parity check Matrices, Encoding circuits, Syndrome and Error Detection, Minimum Distance Considerations, Error detecting and Error correcting capabilities, Standard array and Syndrome decoding, Decoding circuits, Hamming Codes, Reed - Muller codes, Golay code, Product codes and Interleaved codes. | 1,2 | 05 |
| | 2.2 | Cyclic Codes: Introduction, Generator and Parity check • Polynomials, Encoding using Multiplication circuits, Systematic Cyclic codes – Encoding using Feedback shift | 1,2,3 | 05 |

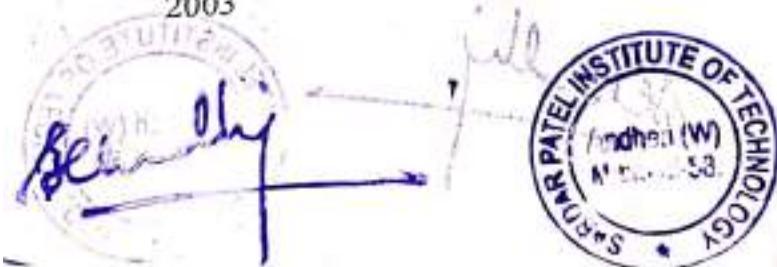


 PIMPRI CHINCHWAD ENGINEERING COLLEGE
 PUNE (W)
 MAHARASHTRA, INDIA - 411 014

| | | | | |
|--------------|-----|--|-------|-----------|
| | | register circuits, Generator matrix for Cyclic codes, Syndrome computation and Error detection, Meggitt decoder, Error trapping decoding, Cyclic Hamming codes, Golay code, Shortened cyclic codes. | | |
| 3 | 3.1 | BCH Codes Binary primitive BCH codes, Decoding procedures, Implementation of Galois field Arithmetic, Implementation of Error correction. | 1,2,4 | 05 |
| | 3.2 | Non – binary BCH codes: q – ary Linear Block Codes, Primitive BCH codes over GF (q), Reed – Solomon Codes, Decoding of Non – Binary BCH and RS codes: The Berlekamp - Massey Algorithm. | 1,2 | 05 |
| 4 | 4.1 | Convolutional Codes Encoding of Convolutional codes, Structural properties, Distance properties | 1,2 | 04 |
| | 4.2 | Viterbi Decoding Algorithm for decoding, Soft – output Viterbi Algorithm, Stack and Fano sequential decoding Algorithms, Majority logic decoding. | 1,2 | 04 |
| 5 | 5.1 | Concatenated Codes and Turbo Codes Single level Concatenated codes, Multilevel Concatenated codes, Soft decision Multistage decoding, Concatenated coding schemes with Convolutional Inner codes | 1,2 | 04 |
| | 5.2 | Introduction to Turbo coding and their distance properties, Design of Turbo codes. | 1,2 | 02 |
| Total | | | | 42 |

Reference Books:

1. Shu Lin & Daniel J. Costello, Jr. "Error Control Coding" Prentice Hall, Second Edition, 2004.
2. S. B Wicker, Error Control Systems for Digital Communication and Storage, Prentice Hall International, 1995.
3. Blahut R. E, Theory and Practise of Error Control Codes, Addison Wesley, 1983
4. Blahut R.E., Algebraic codes for Data transmission, Cambridge University Press, 2003



Bharatiya Vidya Bhavan's
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Minutes of

Fourth Meeting of the

Academic Council

On

Wednesday, January 16, 2019 at 3.00 PM

at

Conference Room No. 105
 Sardar Patel Institute of Technology
 Andheri (West), Mumbai-58



Jan 16/19
2019

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Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY

Munshi Nagar, Andheri(W), Mumbai – 400 058.
 (Autonomous Institute Affiliated to University of Mumbai)

**Minutes and Action taken report for 4th Academic Council Meeting
 of S.P.I.T., Andheri (West), Mumbai.**

Meeting Date: Wednesday, January 16, 2018

Time: 3.00 p.m.

Venue – Sardar Patel Institute of Technology

Following Members were present:

| Sr. No | Name |
|--------|--|
| 1 | Dr. Prachi Gharpure, Principal & Chairman |
| 2 | Dr. Shubha Pandit, Mumbai University Nominee |
| 3 | Dr. R.D. Daruwala, Mumbai University Nominee |
| 4 | Prof. Sunil Bhagwat, Mumbai University Nominee |
| 5 | Dr. Zia Saquib, External Expert |
| 6 | Dr. Jonathan Joshi, External Expert |
| 7 | Dr. Satyanarayana Bhasatte, TIFR, External Expert |
| 8 | Dr. Kushal Tuckley, IIT Bombay, Invitee |
| 9 | Dr. V.S.Rao, Head Electronics and Telecommunication Engineering Department, Member |
| 10 | Dr. Radha Shankar Mani, Head Information Technology Department, Member |
| 11 | Dr. D.R.Kalbande, Head Computer Engineering Department, Member |
| 12 | Dr. Pooja Roundale, Head Master of Computer Applications, Member |
| 13 | Prof. Kailash Devadkar, Associate Professor, Information Technology Department, Member |
| 14 | Prof. D.D. Ambawade, Associate Professor, Electronics & Telecommunication Engineering Department, Member |
| 15 | Prof. Kiran Talele, Associate Professor, Electronics Engineering Department, Member |
| 16 | Prof. Surekha Dholay, Associate Professor, Computer Engineering Department, Member |
| 17 | Dr. Rajendra Sutar, Associate Professor, Electronics Engineering Department, Invitee |
| 18 | Dr. Sudhir Dhage, Professor, Computer Engineering Department, Invitee |
| 19 | Prof. D.M.Patil, Associate Professor, Applied Sciences & Humanities Department, Invitee |
| 20 | Mrs. Apurva Mohite, Controller of Examination, Invitee |
| 21 | Dr. Surendra Rathod, Dean(Academics) & Member Secretary |

Leave of absence was requested by Dr. Milind Sohoni, Dr. Sameer S Sahasrabuddhe, Dr. V. B. Chanchal, Dr. M. B. Patil, Dr. Suresh Ukarande and Dr. Rita Das



✓ 16/1/19

✓ 16/1/19

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| Sr. No. | Agenda Item | Discussion/Remarks | Decision | Action Taken |
|---------|--|---|--|---|
| 1. | Welcome to members of the Academic Council for Fourth Meeting. | Member secretary, Academic Council Dr. S. S. Rathod started meeting by welcoming members. He informed that Dr. M. B. Patil, IIT Bombay, Dr. Shubha Pandit, KJSCE, Dr. R. D. Daruwala, VJTI and Dr. Sunil Bhagwat, ICT, are the nominee of Mumbai University in AC. Dr. Rathod presented agenda of the meeting and then proceedings of the meeting started | -- | |
| 2. | Confirmation of Minutes and Action Taken Report of the Third Meeting of Academic Council held on 14th July 2018. | Member secretary asked about confirmation of minutes of third academic council meeting held on 14 th July 2018. No corrections or suggestions are given by the members and minutes are approved. | Minutes of Academic Council held on 14 th July 2018 are unanimously approved by all the members. | Minutes taken and ATR noted |
| 3. | Approval of revised scheme and course contents for semesters VII and VIII from academic year 2019-20 for UG program in Electronics Engineering, Electronics & Telecommunication Engineering, Computer Engineering and Information Technology | Please refer Annexure-I for detail discussion. | All departments will once again look for minor revisions. AC authorized chairperson to implement final year scheme and contents for all branches from 2019-20 after minor revisions. In order to maintain uniformity for finding rank or award purpose, CGPI to be taken on the basis of VII semester. | Final year scheme, courses and their contents are approved Unanimously. To be implemented from academic year 2019-20. |

Sundarji

*Rehmat
21/07/19*



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| 4. | Liberal art courses | Dr. Rathod Presented various new Liberal art courses added to the present liberal arts courses. He proposed to offer these courses from 2019-20 to First year and Second Year as per scheme. Dr. Daruwala recommended to change the name 'Liberal Art'. | Courses and their contents are approved Unanimously | To be implemented from academic year 2019-20. Liberal arts name is changed to 'Life Skill Courses' |
| 5. | Mandatory elective courses | Put forward for approval of addition of new courses Mandarin and Japanese. It was recommended to change 'Mandatory Elective Course' to 'Mandatory Elective' | Courses and their contents are approved Unanimously. MEC will be changed to MC for students admitted in first year in 2019-20. | To be implemented from academic year 2019-20. |
| 6. | Minor Changes in SE and TE course contents | Put forward for approval. | Approved Unanimously | EXTC department instructed to do the changes in syllabus and upload on website immediately. |
| 7. | Monitoring and Evaluation of Internship | Dr. Rathod presented the monitoring and evaluation of semester long internship and the detail manual prepared by Dean Industry Relations Dr. D. R. Kalbande. Dr. Jonathan Joshi suggested that institute can allow for research internships under institute faculty. Dr. Shubha Pandit recommended to put 'attendance' as a criteria in Internship evaluation rather than discipline and there should be redressal mechanism on case to case basis for evaluation of internships. | Monitoring and evaluation mechanism in unanimously approved. | To be implemented from academic year 2019-20. |

Shambhu



27/11/19
 27/11/19



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| | | Dr. Daruwala recommended that for all internships, S.P.I.T. approval is must and there should be a grade penalty for students accepting internship and not joining a company or joining a company but not completing internship. | | |
| 8. | First year Curriculum Scheme to be implemented from academic year 2019-20. | Please refer Annexure-II for detail discussion. | Applied Mechanics can be part of Physics and not offered as a separate course. Chemistry can contain thermodynamics. One more relevant 'open elective' course in the area of mechanics at SEM VI level can be offered as a prerequisite to automation and robotics courses. The proposed first year curriculum scheme was unanimously approved as it is. | Faculty to prepare the detail syllabus as per the scheme approved in AC. |
| 9. | Curriculum scheme for UG Courses as per new AICTE Guidelines for 160 Credits | Dr. Rathod presented the new scheme for Second Year, Third Year and Final Year to be adopted for first year batch admitted in 2019-20. Dr. Rathod presented the idea of offering additional courses to fast learners. It was well appreciated by everyone. Dr. Daruwala recommended having CGPA as a CAP for | The scheme was unanimously finalized and approved. Now respective departments can put the course names in the scheme and get approval of respective BoS. | All departments will be instructed to prepare the scheme as per the decided format and put for approval in next academic council. |

Sekhriji



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| | | student registrations. It can be interdisciplinary course. He also suggested using terminology 'Non-credit' and not 'audit' courses. | | |
| 10. | Student Exchange Programme | Postponed for next meeting. | Postponed for next meeting. | - |
| 11 | Any other matter with permission of chair. | Dr. Daruwala said that 'Open Elective' can be offered from first year faculty also. | To be informed to first year faculty. | - |
| | | Member secretary informed that all the items of agenda are discussed and meeting ended with vote of thanks. | | |

Annexure-I

Dr. Rathod presented revised scheme and course contents for semesters VII and VIII from academic year 2019-20 for UG program in Electronics Engineering, Electronics & Telecommunication Engineering, Computer Engineering and Information Technology are presented. Dr. Y. S. Rao suggested to look once again to overall credits offered in final year and recommended to make IP as 3 credit course. Dr. Rathod replied that it was done to have uniform credits across all the departments. To this Dr. Daruwala and Dr. Shubha Pandit said that it is not necessary to have same credits for all branches to offer the degree. Then it is decided that these schemes can be once again looked by the department and minor changes can be done. Dr. Jonathan suggested having a look on project I and II nomenclature for category I and II students. Dr. Rathod informed that it was a typing mistake. Dr. Shubha Pandit recommended being careful about the calculation of CGPI and conduct of examination for 'Open Elective' courses. She suggested that in order to maintain uniformity for finding rank or award purpose, CGPI to be taken on the basis of VII semester. This can be further discussed in examination committee.

Annexure-II

Dr. Rathod proposed scheme for First Year 2019-20. Dr. Rathod invited Prof. D. M. Patil to express his opinion about 'Mechanics' course. Prof. D. M. Patil expressed his displeasure in shifting of the 'Mechanics' course. He spoke for more than 20 minutes quoting various examples/survey/applications. He raised his concerns about introduction of digital circuit's course in first year and intentions about removing mechanics course.

Then Dr. Rathod gave the justification of necessity of introducing digital circuits at first year level. He clarified why it is necessary to shift one common course from all branches to first year by presenting detail scheme with 160 credits.

Dr. Sunil Bhagwat started discussion on this point stating that primary beneficiary of education should be society. He has asked for the comparison of existing first year and the proposed curriculum which was then shown by Dr. Rathod.

Bendix





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Dr. Prachi Gharpure explained the necessity of shifting Applied Mechanics course to higher semester.
 She informed that S.P.I.T. recruiters are majority financial & IT companies needing applied courses related to the domain.

Prof. Surekha Dhole said that engineering mechanics is useful in Robotics and Automation. Dr. Sudhir Dhage and Prof. Surekha Dhole were of the opinion that Engineering Mechanics is the fundamental Engineering course. Its basic principles are required in Robotics, artificial intelligence, Machine learning and automation. Dr. Jonathan Joshi, Dr. Shubha Pandit, Dr. Kushal Tuckley and Dr. Zia Saquib discussed about solution to this problem. Dr. Sunil Bhagwat was of the opinion that we should keep what society wants in the syllabus to which Dr. Rathod explained about various other courses introduced in the curriculum.

Dr. Satyanarayana said industries always want students ready to work from day one. It does not mean we should chop the basics and keep advance courses in lower semesters.

Dr. Sunil Bhagwat asked whether this course will affect skills of students to which Dr. Rathod replied that as per NBA graduate attributes it will not affect because there are many courses through which application of engineering knowledge, analysis and design skills can be taught. Dr. Y. S. Rao suggested that correct positioning of the course in higher semester. Dr. Rathod also read the messages of Dr. M. B. Patil and Dr. Sameer Sahastrabudhe supporting the shift in the mechanics course to higher semester.

When asked about the % distribution Dr. Rathod presented it to the council. After observing that there is no professional core course taught in first year, it was decided that digital circuit credits can come under professional core in first year. Dr. Sunil Bhagwat then suggested to put branch relevant contents of mechanics course in physics course.

He said physics and mechanics can be one course which was seconded by Dr. Y. S. Rao. Finally it is unanimously resolved that Applied Mechanics can be part of Physics and not offered as a separate course. Modify Physics and Chemistry Syllabus. Chemistry can contain thermodynamics. The contents of these courses must be modified as per requirement of branches.

Dr. Rathod suggested having one more relevant 'open elective' course at SEM VI level can be offered as a prerequisite to automation and robotics which was unanimously accepted by all. After decision Dr. Rathod asked to Prof. D. M. Patil whether he agree to it to which he has given affirmative reply.

Signature and Date

Dr. S. S. Rathod

Dean (Academics) and Member Secretary,
 Academic Council

Signature and Date

Dr. Prachi Gharpure

Principal and Chairman,
 Academic Council



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Minutes of

Third Meeting of the

Academic Council

On

Saturday, July 14, 2018 at 10.30 AM

at

Conference Room No. 105
 Sardar Patel Institute of Technology
 Andheri (West), Mumbai-58

Selvam →



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**Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY**

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**Minutes and Action taken report for 3rd Academic Council Meeting
of S.P.I.T., Andheri (West), Mumbai.**

Meeting Date: Saturday, July 14, 2018

Time: 10.30 a.m.

Venue – Sardar Patel Institute of Technology

Following Members were present:

| Sr. No | Name |
|--------|---|
| 1 | Dr. Prachi Gharpure, Principal & Chairman |
| 2 | Dr. Zia Saquib, External Expert |
| 3 | Dr. Jonathan Joshi, External Expert |
| 4 | Dr. Sameer S. Sahasrabudhe, IIT Bombay, Invitee |
| 5 | Dr. Kushal Tuckley, IIT Bombay, Invitee |
| 6 | Dr. D.R.Kalbande, Head Computer Engineering Department, Member |
| 7 | Dr. Radha Shankar Mani, Head Information Technology Department, Member |
| 8 | Dr. Pooja Roundale, Head Master of Computer Applications, Member |
| 9 | Prof. Surekha Dholay , Associate Professor, Computer Engineering Department, Member |
| 10 | Prof. Kailash Devadkar, Associate Professor, Information Technology Department, Member |
| 11 | Prof. D.M.Patil, Associate Professor, Applied Sciences & Humanities Department, Invitee |
| 12 | Dr. Sudhir Dhage, Professor, Computer Engineering Department , Invitee |
| 13 | Dr. Rajendra Sutar, Associate Professor, Electronics Engineering Department, Invitee |
| 14 | Dr. Surendra Rathod, Dean(Academics) & Member Secretary |

Leave of absence was requested by Dr. Milind Sohoni Dr. Satyanarayana Bhasatte, Dr. V. B. Chandratre, Dr. Y.S.Rao, Dr. Rita Das, Prof. D.D. Ambawade, Prof. Kiran Talele and Mrs. Apurva Mohite





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| Sr. No. | Agenda Item | Discussion/Remarks | Decision | Action Taken |
|---------|---|---|--|---|
| 1. | Welcome to members of the Academic Council for Third Meeting. | Member secretary, Academic Council Dr. S. S. Rathod started meeting by welcoming members. He informed that Dr. Sameer S. Sahasrabudhe, IIT Bombay, Dr. Kushal Tuckley, IIT Bombay, and Dr. V. B. Chandratre from BARC are included as invitee in AC. However Dr. V. B. Chandratre could not attend the meeting but has sent an email about his opinion on various agenda items, which has been read by Dr. S. S. Rathod. Member secretary also informed that S.P.I.T. regularly communicated to Mumbai university but names of nominees are not yet received. | -- | |
| 2. | Confirmation of Minutes and Action Taken Report of the Second Meeting of Academic Council held on 20th Jan 2018. | Member secretary asked about confirmation of minutes of second academic council meeting held on 20 th Jan 2018. No corrections or suggestions are given by the members and minutes are approved. | Minutes of Academic Council held on 20 th Jan 2018 are unanimously approved by all the members. | Minutes taken and ATR noted |
| 3. | Approval of Post Graduate Diploma Courses in: 1. UX Design 2. AR-VR 3. Music/Sound Engineering 4. Technology Entrepreneurship | Kindly refer Annexure-I for detail discussion. | Approved all the PGDM courses. | Suggestions are communicated to the curriculum designers of respective courses. |
| 4. | Approval of Academic Calendar for A.Y. 2018-19 | Academic Calendar for A.Y. 2018-19 was presented by Dr. S. S. Rathod | Approved the academic calendar | To be followed in academic year 2018-19 |



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| 5. | Approval of Examination Related Amendments | Dr. S. S. Rathod informed about the amendments proposed by the examination committee to be implemented from academic year 2018-19. He categorically informed about the introduction of reexamination. | All the amendments related to examinations are approved | Revised examination manual is prepared which is followed in academic year 2018-19. Amendments are presented in all the classes for student's information. Faculty was informed through faculty meeting. |
| 6. | Discussion on Credit Structure for UG Course as per new AICTE Guidelines for 160 Credits | Member secretary informed AC about the new AICTE guidelines regarding range of credits i.e. 150 to 160. He also informed that as per AICTE a student will be eligible to get Under Graduate degree with Honours or additional Minor engineering, if he/she completes an additional 20 credits which could be acquired through MOOCs. Dr. Prachi Gharpure said that S.P.I.T. may need to take an approval from University in case S.P.I.T. wish to give degree with honours. In future, very good quality research or SCOPE courses may be considered for degree with honours. | All members agreed to adopt 160 credit scheme from first year of engineering 2019-2020 batch. A proposal to be sent to Mumbai University for giving B.Tech (Hons.) if candidate earns 180 credits. | All departments are informed to revise the scheme and curriculum by considering 160 credits to be implemented for batch which will be admitted in 2019-2020. |
| 7. | Discussion on Industry Feedback | Kindly refer Annexure-II for detail discussion. | Combined theory and lab course for basic sciences. Programming courses as part of mathematics tutorial. Introduction of new | First year department is instructed to prepare the scheme as per the recommendations of AC for batch which will be admitted in 2019-2020. Committee consisting of members from all the departments is formed to prepare the modalities of 'summer term' which will |



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| | | | activity based courses like animation and design thinking. Eight week Interdisciplin ary 'summer term' to be started. | be implemented after semester II. |
| 8. | Information about SCOPE Tracks and Rules for year 2018-19 | Dr. S. S. Rathod informed about SCOPE Tracks which will be made available for second year students for year 2018-19. He also informed about new tracks offered by Fractal Analytics and EBTS. Dr. Prachi Gharpure shared the experience of 2017-18 of SCOPE tracks. | Revised registration mechanism for SCOPE tracks is adopted i.e. registration amount for first three modules to be collected before start of track and then for next three modules after completion of first three modules. | To be followed from academic year 2018-19 |
| 11 | Any other matter with permission of chair. | Dr. Jonathan Joshi recommended giving a thought on accepting a Ph.D. work if patent is licensed by a company for the work done. Dr. Prachi Gharpure and Dr. S. S. Rathod did not agree to the idea and informed that S.P.I.T. is not ready at present for the same. This can be considered in future. Dr. Satyanarayana Bheesette has given his opinion through email. He wrote 'while agreeing that both the efforts towards | Feedback from students and faculty should be taken and majority decision to be implemented. A policy should be worked out for present semester V students to offer an internship in semester VIII. | Feedback from students and faculty is collected and the revised scheme is prepared. |

Sekharki



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| | thesis and patent could be equally intensive, the purpose and most importantly the approach and methodologies are very different. While a patent could be byproduct of a thesis, not the other way around.' Dr. Jonathan also recommended that semester long internships will benefit students to which all the external members agreed and also cautioned about the monitoring of the process. He said that institute can be 'student centric' by doing an assessment at the place where internship is carried out. He also recommended giving a thought to include present third year students in this policy. | | |
| | Member secretary informed that all the items of agenda are discussed and meeting ended with vote of thanks. | | |

Signature and Date

Dr. S. S. Rathod

Dean (Academics) and Member Secretary,
 Academic Council

Signature and Date

Dr. Prachi Gharpure

Principal and Chairman,
 Academic Council





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Annexure-I

Member secretary presented post graduate diploma courses and their contents for approval. Dr. Sameer S Sahasrabudhe said that instructional design should be the backbone of story telling in VR. He also recommended advertising these courses among our UG and PG classes. He recommended that PGDM students can be mentors for UG students. He suggested starting interdisciplinary 'Summer Term' at the end of semester II and PGDM students can be involved/trained to handle these kinds of workshops.

He suggested being clear in syllabus about 'interaction design' module in case of UX Design course. It should be written in syllabus that interaction design is for website or for devices because these two are completely different experiences. AR courses are lacking in case of PGDM AR/VR hence augmented reality related course need to be introduced. He recommended giving a thought of having project linked to every course rather than one project in a semester. This will help student in implementing the concepts learned in that particular course which probably he/she may not be implementing in one project. He also suggested giving a thought of running an entire project based course. Exact delivery mechanism need to be thought of for music related courses. Dr. D. R. Kalbande also agreed that there is a need to include courses on 'interaction design' in UG syllabus may be in fifth and sixth semester which have potential in increasing employability and long duration internship for all branches.

Dr. Jonathan Joshi, Dr. Kushal Tuckley and Dr. Zia Saquib told that these courses are industry relevant and eleven months exposure to start-ups will help the course. Members recommended that UX design and AR/VR students can collaborate during the implementation of project. Story telling in instruction design can be very well taught using AR/VR and thus instruction design course can go along with AR/VR. Dr. Kushal Tuckley advised to start center of excellence and also told that he will connect S.P.I.T. to the concerned people.

Annexure-II

Highlights of industry feedback in which revamping of first year curriculum and internships were strongly recommended were read by member secretary. Prof. D. M. Patil suggested that S.P.I.T. is proposing more credits to basic sciences in first year than credits proposed by AICTE and less credits to engineering sciences. Prof. D. M. Patil also informed that 3D modeling and 3D printing is included as a part of workshop in first year. Dr. Zia Saquib and Dr. Kushal Tuckley suggested making physics and chemistry laboratory based courses to which all the members agreed unanimously. Dr. Rathod read email by Dr. Chandrase who is a renowned physicist also recommended that these could be laboratory based courses. Dr. Jonathan Joshi and Dr. Kushal Tuckley recommended to design a laboratory based course which will include the contents of Python programming, R programming and Matlab programming and must start in first year itself. Members agreed that 'Applied Mathematics' is a too generic name. They recommended giving a proper title like 'Statistics', 'Linear Algebra' etc. to these courses and also include Matlab programming, R programming and Python Programming in first year mathematics courses. Members recommended to have more lab based engineering courses in the first year of study. Mathematics should also be thought of as laboratory based course rather than tutorial. Applied mechanics and drawing should also be taught more in laboratories.

Dr. Satyanarayana Bheesette through email communicated that physics (classical experiments - electromagnetics, light, semiconductors, sensor detector physics), chemistry (experiments with a technology lookup), applied mechanics (physics + measurement based laboratory session, treatment of data using statistical methods), applied mathematics (problem solving by computing) should all be taught during first year as combined 'classroom + lab' courses.



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Members recommended including Animation course and Design Thinking or UX design as a workshop in first year engineering itself. This will help students in implementing the concepts learning from second year onwards. Otherwise in higher semesters even if these courses are included students may not get enough opportunity to actually implement these concepts. Dr. Sahasrabudhe recommended looking for a course on 3D animation and modeling offered by IIT Bombay. Many universities are using this course as a laboratory course. He also recommended that college should start interdisciplinary eight week 'summer term'. This has to be an interdisciplinary in nature only. Through this term students will be benefitted by acquiring the fundamental knowledge of the other fields which will be useful for them in their real life.

Sahasrabudhe



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Draft Minutes of

Second Meeting of the

Academic Council

On

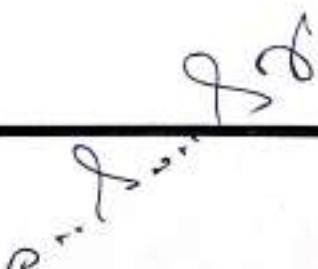
Saturday, January 20, 2018 at 10.00 AM

at

**Conference Room No. 105
Sardar Patel Institute of Technology
Andheri (West), Mumbai-58**

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| Sr. No. | Agenda Item | Discussion/Remarks | Decision | Action Taken |
|---------|---|---|--|-----------------------------|
| 1. | Welcome to members of the Academic Council for Second Meeting. | Member secretary, Academic Council Dr. S. S. Rathod started meeting by welcoming members. He informed to all the members that Dr. Milind Sohoni could not come due to other commitment and Dr. Satyanarayana due to health reasons. However their suggestions will be taken via email. Member secretary also informed that S.P.I.T. regularly communicated to Mumbai university but names of nominees are not yet received. | -- | -- |
| 2. | To read and approve the minutes of the previous Academic Council Meeting | Member secretary read the minutes of previous academic council meeting held on 8 th June 2017. There is a typographical error in point no. 10 of previous MoM wherein M.Tech. word to be replaced by PG. | Minutes of Academic Council held on 8 th June 2017 are unanimously approved by all the members. | Minutes taken and ATR noted |
| 3. | Briefing to members about the implementation of academics in ODD semester 2017-18. | Dr. S. S. Rathod informed all the members about the various activities carried out in the institute in ODD semester of 2017-18 for successful implementation of academics. He informed about the following aspects: i) FSAI activities carried out were explained ii) The details of SCOPE program were explained. Dr. Prachi Gharpure mentioned that even though many students | -- | -- |



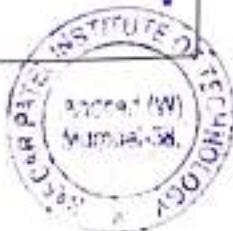


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| | | | | SCOPE course 4. Attendance rules are revised 5. 20:20:60 assessment scheme accepted with 60 marks ESE and Make-up paper 6. Credit-wise marks distribution and exam duration 7. Grace marks rule shall be put up in the examination committee 8. Policy for LD candidates shall be put up in exam committee 9. Make-up exam rules are revised as per 20:20:60 format 10. ISE and MSE carry forward in all cases 11. Re-exam for students failed in make-up examination in ODD semester to be taken in EVEN Sem 12. Paper setting rules are revised 13. Practical ESE is scheduled within academic time-table |
| 5. | Proposal for implementation of revised scheme and course contents for semesters III to VI from academic year 2018-19 for UG program in Electronics Engineering | Dr. S. S. Rathod, Head of Electronics Engineering Department presented scheme and syllabus for semesters III and VI for Electronics Engineering UG program for academic year 2018-19. He informed that scheme and syllabus are approved in the Electronics Engineering Board of Studies meeting. Dr. Y. S. Rao suggested reducing the proposed marks of action research | Approved the scheme and course contents for semesters III and VI from academic year 2018-19 for UG program in Electronics Engineering with suggested corrections. | 1. Credits of action research projects are revised 2. Contents of IoT course are revised 3. Comprehensive viva is not included |

Sehgal





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| | | problems related to logistics. Hence the idea of comprehensive viva examination is not accepted by the members. | | |
| 6 | Proposal for implementation of revised scheme and course contents for semesters III to VI from academic year 2018-19 for UG program in Electronics Engineering & Telecommunication | <p>Dr. Y. S. Rao, Head of Electronics & Telecommunication Engineering Department presented scheme and syllabus for semesters III and VI for Electronics & Telecommunication Engineering UG program for academic year 2018-19. He informed that scheme and syllabus are approved in the Electronics & Telecommunication Engineering Board of Studies meeting.</p> <p>It is recommended to have practical ESE for maximum two courses in a semester. It is recommended to have practical examination for HDL programming and Object oriented Programming. Dr. Rao mentioned that in EXTC scheme they have included product design instead of mini project. Dr. Jonathan Joshi suggested to include product documentation as per industry requirements as a part of product design. It is also suggested to include ARM CORTEX in embedded systems syllabus.</p> | <p>Approved the scheme and course contents for semesters III and VI from academic year 2018-19 for UG program in Electronics & Telecommunication Engineering with suggested corrections.</p> | <p>1. Practical ESE is included only for max two courses per semester</p> <p>2. ARM Cortex is included in embedded system course</p> |
| 7 | Proposal for implementation of revised scheme and course contents for semesters III to VI | <p>Dr. D. R. Kalbande Head of Computer Engineering Department presented scheme and syllabus for semesters III to VI for</p> | <p>Approved the scheme and course contents for semesters III</p> | <p>1. Evaluation scheme is changed to 20:20:60</p> <p>2. 'Technology Lab' is renamed as 'Enterprise</p> |

Sehgal

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| 2018-19 for UG program in Information Technology. | <p>Technology UG program for academic year 2018-19. She informed that scheme and syllabus are approved in the Information Technology Board of Studies meeting.</p> <p>Dr. Jonathan Joshi suggested that there is a lot of scope for Artificial Intelligence and it should be included early in the syllabus in SEM VI in both computer and information technology departments. Human computer interaction (Sem VII) can be interchanged with machine learning (Sem VI).</p> <p>Dr. Jonathan Joshi and Dr. Zia Saquib suggested including python programming early in engineering. Dr. Prachi Gharpure suggested including one credit lab course on Python Programming in Sem II in all branches.</p> <p>Dr. Radha Shankarmani presented revised scheme for second year for 2018-19 UG program in which she has suggested to drop 'Information Theory and Coding' course from sem III. The relevant topics of this course are included in other courses in further semesters. Remove * for practical courses for all branches.</p> | <p>academic year 2018-19 for UG program in Information Technology with suggested corrections.</p> | <p>programming will be included in next revision in SEM II</p> <p>3. ITC course from SEM III is removed.</p> <p>4. Removed * from all the practical courses in all branches</p> <p><i>Schudhij</i> </p> |
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| | | one student' policy will be adopted. Deadline for submission of dissertation shall be 30 th June. After deadline student will have to pay the entire fees and take admission. All members agreed for rest of the points mentioned in the rule book. | | |
| 11 | Any other matter with permission of chair. | <p>Dr. Rathod presented the revised syllabus for Yog Vidya and Music Appreciation courses for academic year 2017-18 onwards. He explained that the instructors of these courses recommended revising the syllabus. The contents of Vog Vidya should be as per learning outcomes emphasized on yoga and not stress management which were passed in previous AC. Similarly in music appreciation as per the learning outcomes course contents should be more towards sound engineering and composition of song rather than classical music.</p> <p>Dr. Rita Das recommended including slow pace program for slow learners which is existing in many autonomous institutes. However many experts were of the opinion that in the existing system of S.P.I.T. it will be difficult to do at present. Since these programs are majorly offered in choice based credit systems, S.P.I.T. can consider it in future.</p> | <p>The suggested modification for Yog Vidya and Music Appreciation courses is approved unanimously for academic year 2017-18.</p> <p>Slow paced programs are not considered at present for implementation.</p> <p>Suggestion of Year drop students is accepted and approved unanimously by all the members.</p> | <p>1. Revised contents of Yog Vidya and Music Appreciation courses are adopted</p> <p>2. Year drop students will be allowed to seat in a class and complete all assessments</p> |



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Annexure-I

Dr. S. S. Rathod proposed various amendments to the existing rules of curriculum and examination.

A. Following are the amendments proposed in the Curriculum Rules:

i) HHSA Course: Noncredit Course.

Amendment: It is proposed to convert HHSA course to Two Credit course from academic year 2018-19. Discussion on the modality of conduction of this course was discussed between the members. Dr. Y. S. Rao suggested calling MD or MBBS doctor to give an introductory talk to the students to attract students to the course. Also application and goals of the course need to be explained by the engineering faculty.

Approved Unanimously.

ii) Sports Activities (SA):

Extra credits=1 per sport for participation and 2 for winner

Participation or winner as part of University team, State of Maharashtra team or National Indian team.

Amendment: Selection as part of University team, State of Maharashtra team or National Indian team shall be considered for award of 2 credits.

Approved Unanimously.

iii) Regarding SCOPE program Dr. Rathod suggested that ETRX and EXTC student have to complete track from ETRX or EXTC department to get an exemption in SEM VII open elective, similarly COMP and IT student have to complete track from COMP or IT department to get an exemption in SEM VII open elective. For exemption in SEM VIII open elective, any track from any department shall be considered.

However Dr. Prachi Gharpure and Dr. Y. S. Rao strongly objected and told that there shall be no conditions for selection of track. Dr. Prachi Gharpure said that we need to consider SCOPE course as a minor degree and there should be blended learning in SCOPE courses. Dr. Rathod informed that students are always inclined towards non-technical tracks like management or tracks from computer/IT

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- Attendance on the ground of health reason shall be considered within 25% relaxation. However Head of the Institute or Dean Academics can condone the attendance on case to case basis. If candidate is hospitalized on the day of Mid-semester examination and suitable intimation is given to the Examination Controller/DEC then decision regarding Mid Semester examination for these students would be taken on case to case basis based on sufficient proofs of hospitalization.

Above mentioned amendment in the attendance rule is approved Unanimously.

ii) Mentioned below is the existing rule '3.2 Course Evaluation' in examination manual and the proposed amendment

3.4. Course Evaluation

Following table shows the percentage distribution of evaluation scheme for a course.

| Examination | | Syllabus to be covered in the examination | Marks Distribution= (%) | Min Passing Marks | | Time allotted for the examination |
|-------------|---|---|-------------------------|-------------------|------------|-----------------------------------|
| | | | | UG | PG | |
| Theory | ISE | Continuous Assessment | 10% | -- | -- | Duration of entire semester |
| | MSE | Up to 50% | 30% | -- | -- | |
| | ESE | 100% | 60% | 40% | 45% | |
| | Total Marks | | 100% | 40% | 45% | |
| Practical | ISE | Continuous Assessment | 66% | 40% | 45% | Duration of entire semester |
| | Practical/Viva Exam (Expert Assessment) | 100% | 34% | 40% | 45% | |
| | Total Marks | | 100% | 40% | 45% | |

Following table shows the actual marks of evaluation for a course.

| Examination | Theory Course | Laboratory Course |
|-------------|----------------------|--------------------------|
| | Marks | Marks |
| ISE | 10 | 40 |
| MSE | 30 | -- |
| ESE | 100 | 20 |

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Dr. Rathod proposed the following amendment to the above rule. Maximum 2 grace marks per course shall be awarded for passing a course. These two marks shall be awarded either to pass ESE or to pass a course; any one of these. Grace marks shall be given for make-up examination as well.

However it is decided that suitable formula or table to be arrived at to give the grace marks depending on the number of failures. This formula shall be put up in the meeting of examination committee members for approval.

Dr. Rathod proposed that for 'Learning Disability' (LD) Candidate the maximum 3% of the total semester marks shall be given as grace marks to pass the course/s. Rules of grace marks are applicable only to pass in either in ESE or entire course or make-up examination. If grace marks are given in ESE to pass any course then grace marks shall not be given in make-up examination again.

It is decided that university should be contacted to find out the exact rule for LD candidates and the suitable policy shall be framed and put up in examination committee for approval.

iv) Mentioned below is the existing rule '3.6 Makeup-Examination and Grade Improvement Guidelines' in examination manual and the proposed amendment

3.6. Makeup-Examination and Grade Improvement Guidelines

- The makeup examination shall be of 100 marks and shall be based on all modules in the syllabus.
- The question paper of makeup examination shall have only internal options.

Amendment: The makeup examination shall be of 60 marks and shall be based on all modules in the syllabus. The question paper of makeup examination shall have only internal options.

Typographical correction: The revised table is shown below.

| UG Program | | | |
|------------------------------|--------------|-----------------------------------|-------------|
| Percentage of Marks Obtained | Letter Grade | Numerical Equivalent Grade Points | Performance |
| 75.00 – Above | B | 8 | Very Good |
| 70.00 – 74.99 | C | 7 | Good |
| 60.00 – 69.99 | D | 6 | Fair |
| 50.00 – 59.99 | E | 5 | Average |
| 45.00 – 49.99 | P | 4 | Pass |
| 40.00 – 44.99 | P | 4 | Pass |
| Less than 40.00 | F | 0 | Fail |
| -- | AB | 0 | Absent |

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- There shall not be any other re-examination other than makeup examination for what so ever reason.

Amendment: Reexamination shall be conducted for the students failed in make-up examination in ODD semester along with the make-up examination in EVEN semester. There shall NOT be reexamination in ODD semester for the candidates failed in make-up examination in EVEN semester.

This rule is discussed first time in the academic council meeting and the members were of the opinion that this rule shall be implemented in academic year 2017-18 as well so that students do not carry live KT during their placements. This argument is agreed by all and supported by Dr. Jonathan Joshi and Dr. Zia Saquib. Hence it is unanimously decided to implement this rule from academic year 2017-18.

Above mentioned amendment is approved Unanimously.

- v) Mentioned below is the existing rule '4.2 Appointment of Paper Setters and Examiners' in examination manual and the proposed amendment

4.2 Appointment of Paper Setters and Examiners:

Amendment:

2. Faculty shall submit one set of question paper for MSE and two sets of question papers for ESE along with solution as per the guidelines of the COE.

8. For ESE, at least 20% papers per semester (i.e. paper for one course) shall be set by external expert. An external paper setter shall be called for a 'paper setting meeting' to be held at examination section of S.P.I.T. A panel of internal and external paper setter shall submit two sets of question papers along with their solution to the examination section.

Above mentioned amendment is approved Unanimously.

9. For end semester practical examination an expert shall be called for all the lab courses. Some of the expert could be inter department and some could be called from other institutes/industry.

Amendment: End semester practical examination shall be conducted by the respective laboratory instructor within the instruction days allocated in the academic calendar. External expert shall be called if and only if it is desirable by the Head of the Department/Dean Academics/ Head of the Institute for a particular course.

/Dr. Jonathan Joshi mentioned that students should be exposed to open ended question paper and

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- The course faculty himself/herself shall carry out the assessment of laboratory ESE. In case Department Head/Dean Academics/ Head of the Institute desires then other competent faculty from the same or other department of S.P.I.T. or expert from other institute can be called for examination. Only expert from other institute shall be paid remuneration and TA/DA as per the existing norms.
- Detail rubrics shall be prepared for carrying out the assessment during Lab Examination. These rubrics shall be submitted to department head and displayed on notice board for the student's reference at least two days in advance before the examination.

Above mentioned amendment is approved Unanimously





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| | Dr. Rita Das also suggested allowing year drop students to attend regular college and complete the course work (ISE+MSE+ESE) for the courses in which candidate is failed. For this institute can charge nominal fees. | |
| | Member secretary informed that all the items of agenda are discussed and meeting ended with vote of thanks. | |

Signature and Date

Dr. S. S. Rathod

Dean (Academics) and Member Secretary,
 Academic Council

Signature and Date

Dr. Prachi Gharpure

Principal and Chairman,
 Academic Council



Principal
 Sardar Patel Institute of Technology
 Bhavans Andheri Campus
 Munshi Nagar, Andheri (West),
 Mumbai - 400 058.



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Bharatiya Vidya Bhavan's
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Minutes of

First Meeting of the

Academic Council

Held on

Thursday, June 8, 2017 at 2.30 PM

at

Conference Room No. 105
 Sardar Patel Institute of Technology
 Andheri (West), Mumbai-58

Signature

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| AGENDA | |
|----------|--|
| Item No. | Item Description |
| 1. | Welcome to members of the Academic Council for First Meeting. |
| 2. | Proposal for implementation of revised curriculum from academic year 2017-18 for B. Tech program. |
| 3. | Proposal for implementation of revised scheme and course contents for semesters I and II from academic year 2017-18 for B.Tech program in all branches of Engineering. |
| 4. | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Computer Engineering. |
| 5. | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Electronics Engineering. |
| 6. | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Electronics & Telecommunication. |
| 7. | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Information Technology. |
| 8. | Proposal for implementation of revised scheme and course contents for semesters I and II from academic year 2017-18 for M. Tech program in Computer Engineering. |
| 9. | Proposal for implementation of revised scheme and course contents for semesters I and II from academic year 2017-18 for M. Tech program in Electronics & Telecommunication. |
| 10. | Proposal for implementation of revised scheme and course contents for semesters I, II, III and IV from academic year 2017-18 for M. Tech program in Master of Computer Applications. |
| 11. | Proposal for implementation of revised assessment scheme for the course contents for all semesters for B.Tech., M.Tech and MCA Programs. |
| 12. | Proposal for approval of academic calendar for the academic year 2017-18 |
| 13. | Any other matter with permission of chair. |

Dr. Surendra Rathod
Dean Academics and Member Secretary, Academic Council

Surendra Rathod

D. T. J. J. J.

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Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
 (Autonomous Institute Affiliated to University of Mumbai)
Minutes of First Meeting of Academic Council
Thursday, June 8, 2017 at 2.30 PM

First Meeting of Academic Council was held on Thursday, June 8, 2017 at 2.30 PM in the Conference Room No. 105. Following members were present:

| Sr. No | Name |
|--------|---|
| 1 | Dr. Prachi Gharpure, Principal & Chairman |
| 2 | Dr. Milind Sohoni, External Expert |
| 3 | Dr. Zia Saquib, External Expert |
| 4 | Dr. Satyanarayana Bhasatte, External Expert |
| 5 | Dr. Jonathan Joshi, External Expert |
| 6 | Dr. Y.S.Rao, Head Electronics & Telecommunication Engineering Department, Member |
| 7 | Dr. D.R.Kalbande, Head Computer Engineering Department, Member |
| 8 | Dr. Rita Das, Head Applied Sciences & Humanities Department, Member |
| 9 | Dr. Radha Shankar Mani, Head Information Technology Department, Member |
| 10 | Dr. Pooja Roundale, Head Master of Computer Applications, Member |
| 11 | Prof. D.D. Ambawade, Associate Professor, Electronics & Telecom. Engineering Department, Member |
| 12 | Prof. Surekha Dholay , Associate Professor, Computer Engineering Department, Member |
| 13 | Prof. Kailash Devadkar, Associate Professor, Information Technology Department, Member |
| 14 | Prof. D.M.Patil, Associate Professor, Applied Sciences & Humanities Department, Invitee |
| 15 | Dr. Sudhir Dhage, Professor, Computer Engineering Department , Invitee |
| 16 | Dr. Rajendra Sutar, Associate Professor, Electronics Engineering Department, Invitee |
| 17 | Dr. Surendra Rathod, Dean(Academics) & Member Secretary |

Name of the University of Mumbai, Nominee is yet to be received from Mumbai University:

Following member is given leave of absence due to ongoing examinations:

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| 1 | Prof. Kiran Talele, Associate Professor, Electronics Engineering Department, Member |
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| Item No 1 | Welcome to members of the Academic Council for First Meeting. |
| Chairman Academic Council Dr. Prachi Gharpure started meeting with the orientation and brief of academic council. She introduced members and welcomed them to the meeting. | |

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| Item No 2 | Proposal for implementation of revised curriculum from academic year 2017-18 for B. Tech program. |
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Member secretary presented agenda and thought process behind the curriculum and assessment. He explained the key elements and salient features of the proposed curriculum. He informed that curriculum for first and second year are changed but for third and final is same as Mumbai University for 2017-2018. He has introduced members to the proposed CEP, ABL, LA and SCOPE modules.

Dr. Satyanarayana spoke about the replacement of SCOPE courses and Open Elective in Sem VII. Look at the course in a more formal evaluation for SCOPE courses. For each track model evaluation should be such that you can replace it with a credit course. He also suggested that IEEE can help in conducting SCOPE activities.

Dr. Jonathan Joshi suggested that now skill based training is must and we should prepare students for various job roles. For every job skill sets are important and around 300 hours of training is required to acquire these skill sets. Thus it is good that SCOPE is introduced by S.P.I.T. He also suggested that institute should give data of skill sets acquired by students to placement office for placement purpose.

Dr. Sohoni said that ensure the contact between examiners and student. Since Dr. Rathod informed that in some of the courses autograder can be used for evaluation. Dr. Sohoni said that one should be careful when you have replacement of standard methodology with innovation in assessment. He also cautioned that assessment should not become formality and there should be personal rapport between students and teachers. Dr. Jonathan Joshi informed that innovations like autograders work as teaching assistants and hence they are useful tools. Dr. Satyanarayana also told to ensure proper evaluation of SCOPE. He said that do not leave students completely in the hands of industries; teacher must be involved in these courses. Since these courses involve additional manpower and infrastructure resources all members agreed that these should be paid course.

Activity based learning execution needs to be planned particularly for ABLI 'Building Automation, Fire Safety and Electronic Security'. Dr. Jonathan Joshi told that rethink about only one day of activity based learning. It should be spread over entire semester so that sufficient learning happens. All external experts suggested breaking the activities in various parts and then carrying out, for example, building automation is one activity, fire safety is another and electronic security is third. Dr. Jonathan suggested to have paper and patent drafting can be separate activity.

Dr. Satyanarayana suggested considering cultural for Liberal Art courses.



Dr. Sohoni spoke about the role of engineer. Engineers must understand what society is. They are social people and they may choose to become employee. There are examples like Anandvan, Amul which are created by social engineering. Current job roles need to be created and those are the roles for which we need to train/educate the students. Problems should come from the real world. For this take students' tour somewhere, make them think and see basic system then honest data gathering should be done. Broader understanding to empower faculty members is required.

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| Item No 3 | Proposal for implementation of revised scheme and course contents for semesters I and II from academic year 2017-18 for B.Tech program in all branches of Engineering. |
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Dr. Rita Das, Head of Applied Sciences and Humanities Department presented scheme and syllabus for semesters I and II for all UG program. She informed that scheme and syllabus are approved in the first year Board of Studies meeting.

Dr. Satyanarayana spoke about the importance of correctly speaking language in public without being biased. Hence he suggested including the related contents in communication skills course. Dr. Rita Das informed that in first year it is a basic communication skill and then in higher semesters students will have one more course on advance communication skills in which these contents can be included.

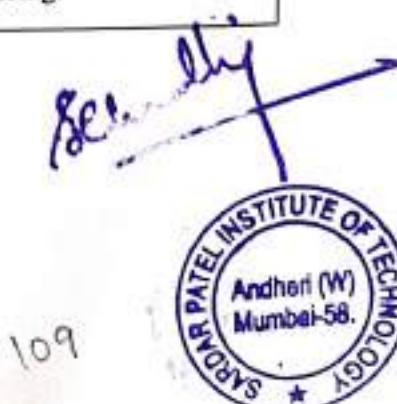
All the members of the academic council approved the scheme and course contents for semesters I and II from academic year 2017-18 for UG program in all branches of Engineering.

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| Item No 4 | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Computer Engineering. |
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Dr. D. R. Kalbande, Head of Computer Engineering Department presented scheme and syllabus for semesters III and IV for Computer Engineering UG program. He informed that scheme and syllabus are approved in the Computer Engineering Board of Studies meeting.

It is resolved that the credits for bridge course 'Fundamentals of Mathematics' in semester III for lateral entry students of all branches should be removed and this course should be offered as non-credit course.

All the members of the academic council approved the scheme and course contents for semesters III and IV from academic year 2017-18 for UG program in Computer Engineering.



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| Item No 5 | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Electronics Engineering. |
| | <p>Dr. S. S. Rathod, Head of Electronics Engineering Department presented scheme and syllabus for semesters III and IV for Electronics Engineering UG program. He informed that scheme and syllabus are approved in the Electronics Engineering Board of Studies meeting.</p> <p>Dr. S. S. Rathod informed about the innovations done in content delivery of course Electronic Instruments and measurements lab. Dr. Y. S. Rao cautioned that it should not become the course which increases documentation and technical aspects should be taken care of. Dr. Satyanarayana informed that there is a need of innovations in content delivery to engage students. He also cautioned about content delivery in HDL programming lab and computer applications in circuit simulation lab.</p> <p>All the members of the academic council approved the scheme and course contents for semesters III and IV from academic year 2017-18 for UG program in Electronics Engineering.</p> |
| Item No 6 | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Electronics & Telecommunication. |
| | <p>Prof. D. D. Ambawade, Associate Professor in Electronics & Telecommunication Engineering Department presented scheme and syllabus for semesters III and IV for Electronics & Telecommunication Engineering UG program. He informed that scheme and syllabus are approved in the Electronics & Telecommunication Engineering Board of Studies meeting.</p> <p>He informed about the philosophy of formation of subject domains and the distribution of subjects in various semesters as per the subject domain.</p> <p>All the members of the academic council approved the scheme and course contents for semesters III and IV from academic year 2017-18 for UG program in Electronics & Telecommunication Engineering.</p> |



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| Item No 7 | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Information Technology. |
| | Dr. Radha Shankarmani, Head of Information Technology Department presented scheme and syllabus for semesters III and IV for Information Technology UG program. She informed that scheme and syllabus are approved in the Information Technology Board of Studies meeting. |
| | Dr. Y. S. Rao pointed out that there are six courses in semester III and it will increase the student load and number of examinations. But Dr. Radha Shankarmani insisted that these are fundamental courses and it is the necessity of scheme due to prerequisite and forth coming courses. Also DBMS is the common course in Computer and IT department which should be highlighted by putting *. |
| | All the members of the academic council approved the scheme and course contents for semesters III and IV from academic year 2017-18 for UG program in Information Technology. |

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| Item No 9 | Proposal for implementation of revised scheme and course contents for semesters I and II from academic year 2017-18 for M. Tech program in Electronics & Telecommunication. |
| | Prof. D. D. Ambawade, Associate Professor in Electronics & Telecommunication Department presented scheme and syllabus for semesters I, II, III and IV for Electronics & Telecommunication Engineering PG program. He informed that scheme and syllabus are approved in the Electronics & Telecommunication Engineering Board of Studies meeting. All the members of the academic council approved the scheme and course contents for semesters III and IV from academic year 2017-18 for UG program in Electronics & Telecommunication Engineering. |

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| Item No 10 | Proposal for implementation of revised scheme and course contents for semesters I, II, III and IV from academic year 2017-18 for M. Tech program in Master of Computer Applications. |
| | Dr. Pooja Raundale, Head of Master of Computer Applications (MCA) Department presented scheme and syllabus for semesters I, II, III, IV, V and VI for MCA. She informed that scheme and syllabus are approved in the MCA Board of Studies meeting. She explained the philosophy behind the MCA courses and informed about various domains in which categorization of courses is done. Dr. Y. S. Rao pointed out that since most of the MCA students after studies immediately join industries hence industries should be contacted to for deciding contents in the courses and should be offered as per their requirement. Other members gave the solution to have proper tracks in electives in semester V and VI. Dr. Pooja Raundale informed that this care will be taken during framing of scheme and course contents of semester V and VI in future. All the members of the academic council approved the scheme and course contents for all semesters from academic year 2017-18 for MCA program. |

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| Item No 11 | Proposal for implementation of revised assessment scheme for the course contents for all semesters for B.Tech., M.Tech and MCA Programs. |
| Member secretary proposed the assessment scheme for all the semesters. He said that curriculum for third and final year has been kept same as Mumbai University but assessment scheme is changed for academic years 2017-2018 batches for which all the members agreed. | |
| Tutorial column for the course evaluation to be removed. | |
| It has been informed that 'F' grade makes a different impression to outside universities. Hence grade for 'Absent' candidates during ESE should be 'AB' instead of 'F' and for defaulters should be 'X'. | |
| Dr. Sohoni suggested that it is unfair for the student if term is not granted due to poor attendance in a course. He suggested that for tutorials, if attendance is <75% then give 'X' in the course | |
| Separate 75% attendance in both theory and tutorial is must otherwise 'X' in course. | |
| For lab, if attendance is <75% in laboratory then 'X' grade in laboratory. | |
| Experts recommended making CGPI rule minimum 4 for UG and 4.5 for PG for promotion. In this case there is a year drop and student has to clear the backlogs. There was a discussion on whether promotion criteria should be CGPI based or credits based for example 75% credits are required to continue for next year. It is desirable to have promotion criteria a credit based and AC suggested finding the criteria in other autonomous institutes and then applying. Dr. Sohoni suggested mentioning 'studentship' rather than 'promotion'. He informed that loosing studentship means discontinuation of studies at institute. It is resolved to keep 'promotion' word as it is more applicable in our circumstances. | |
| Dr. Jonathan Joshi said that is it possible not to hold Viva examinations. But Dr. Rathod informed that because of oral examinations student study seriously finer aspects of the course and it is helpful. Even though fear and unexpected things happen it was recommended to keep oral examination with one student at a time as exam pattern. | |
| Experts suggested that students and faculty members should be given orientation about attendance and evaluation rules. It was also suggested to ensure that every student signs legal document about rules & an undertaking that he has read all the rules, understood, accept all the rules and will abide by the rules. | |
| Dr. Sohoni suggested that rather than actual marks for laboratory courses for ISE and ESE, the total 2/3 (66%) and 1/3 (34%) should be mentioned. | |



Following points are discussed about Make-up exam:

Dr. Prachi Gharpure suggested having makeup examination one week before start of next examination; however other members recommended continuing this year with the drafted academic calendar and thought can be given after one year.

Only students who have 'X' in a course due to attendance <75% but have attendance >50% should be allowed for make-up examination with grade penalty. Students having attendance <50% should not be allowed for ESE or make-up examination and their term is not granted. Criteria of 2 courses can be removed in this case. The grade obtained after applying penalty can be as follows:

| UG Program | | | |
|-------------------------------------|---------------------|--|--------------------|
| Percentage of Marks Obtained | Letter Grade | Numerical Equivalent Grade Points | Performance |
| 75.00 – Above | B | 8 | Very Good |
| 70.00 – Above | C | 7 | Good |
| 60.00 – 69.99 | D | 6 | Fair |
| 50.00 – 59.99 | E | 5 | Average |
| 45.00 – 49.99 | P | 4 | Pass |
| 40.00 – 44.99 | P | 4 | Pass |
| Less than 40.00 | F | 0 | Fail |

| PG Program | | | |
|-------------------------------------|---------------------|--|--------------------|
| Percentage of Marks Obtained | Letter Grade | Numerical Equivalent Grade Points | Performance |
| 75.00 – Above | B | 8 | Very Good |
| 70.00 – Above | C | 7 | Good |
| 60.00 – 69.99 | D | 6 | Fair |
| 55.00 – 59.99 | E | 5 | Average |
| 50.00 – 54.99 | P | 4 | Pass |
| 45.00 – 49.99 | P | 4 | Pass |
| Less than 45.00 | F | 0 | Fail |

If student fails in entire course i.e. (ISE+MSE+ESE) then ISE, MSE and ESE is null and void during makeup examination and there should be grade penalty.

If student fails only in 100 marks ESE then ISE and MSE marks to be carried forward and make-up exam will be with 60% weightage with grade penalty.

But if student get grade 'X' or 'AB' in ESE (due to absentee in ESE) then ISE and MSE to be carried forward and Make-Up Exam will be with 60% weightage with grade penalty.

J. S. Bhandari
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Item No 12 | Proposal for approval of academic calendar for the academic year 2017-18

It is resolved that academic calendar is approved for the year 2017-18.

Item No 13 | Any other matter with permission of chair.

Dr. S. S. Rathod with permission of chair put forward other issues which are resolved as follows.

It is recommended to write B.E./B.Tech. on all the academic documents for second year, third year and final year classes of 2017-18 undergraduate programs while for first year of 2017-18 can be written as B.Tech. Similarly on documents related to second year PG students, M.E./M.Tech. Should be written while for first year of 2017-18 can be M.Tech.

Member secretary informed that AICTE has issued circular regarding inclusion of 20% MOOC courses. It is unanimously resolved that MOOC course shall be considered in the final year and not second-third year.

Dr. Satyanarayana gave concluding remarks that brilliant effort as lot of work done with innovations. He also cautioned that faculty workload should be taken care of due to increased number of activities as quality should not suffer. He said faculty should have enough time and rapport with students. Dr. Prachi Gharpure informed that we have started process of appointing adjunct faculty members to reduce burden on faculty.

Member secretary informed that all the items of agenda are discussed and meeting ended with vote of thanks.

Dr. S. S. Rathod

Dean (Academics) and Member Secretary,
Academic Council

Dr. Prachi Gharpure

Principal and Chairman,
Academic Council



| | |
|---|---|
| Item No 12 | Proposal for approval of academic calendar for the academic year 2017-18 |
| It is resolved that academic calendar is approved for the year 2017-18. | |

| | |
|---|---|
| Item No 13 | Any other matter with permission of chair. |
| Dr. S. S. Rathod with permission of chair put forward other issues which are resolved as follows. | |
| It is recommended to write B.E./B.Tech. on all the academic documents for second year, third year and final year classes of 2017-18 undergraduate programs while for first year of 2017-18 can be written as B.Tech. Similarly on documents related to second year PG students, M.E./M.Tech. Should be written while for first year of 2017-18 can be M.Tech. | |
| Member secretary informed that AICTE has issued circular regarding inclusion of 20% MOOC courses. It is unanimously resolved that MOOC course shall be considered in the final year and not second-third year. | |

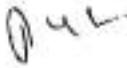
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Member secretary informed that all the items of agenda are discussed and meeting ended with vote of thanks.



Dr. S. S. Rathod

Dean (Academics) and Member Secretary,
Academic Council



Dr. Prachi Gharpure

Principal and Chairman,
Academic Council



Principal
Sardar Patel Institute of Technology
Bhavans Andheri Campus
Munshi Nagar, Andheri (West),
Mumbai - 400 058.




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Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
(Autonomous Institute Affiliated to University of Mumbai)



Agenda

Fourth Meeting of the
Academic Council
On
Saturday, January 16, 2019 at 3.00 PM
at
Conference Room No. 105
Sardar Patel Institute of Technology
Andheri (West), Mumbai-58

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AGENDA

| Item No. | Item Description |
|----------|--|
| I. | APPROVALS |
| | Confirmation of Minutes and Action Taken Report of the Third Meeting of Academic Council held on 14 th July 2018. |
| I.1 | Revised scheme and course contents for semesters VII and VIII from academic year 2019-20 for UG program in Electronics Engineering, Electronics & Telecommunication Engineering, Computer Engineering and Information Technology |
| I.2 | Liberal Art and Mandatory elective courses, Minor Changes in SE and TE course contents |
| I.3 | Monitoring and Evaluation of Internship |
| II. | DISCUSSION |
| II.1 | First year Curriculum Scheme to be implemented from academic year 2019-20. |
| II.2 | Curriculum scheme for UG Courses as per new AICTE Guidelines for 160 Credits |
| III. | INFORMATION |
| III.1 | Student Exchange Programme |
| IV. | Any other matter with permission of chair. |



Dr. Surendra Rathod

Dean Academics and Member Secretary, Academic Council





Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
 (Autonomous Institute Affiliated to University of Mumbai)

Scheme for First Year B.Tech. (Proposed 2019-20)

Group 1: Computer Engineering and Information Technology

| Course Code | Course Name | Group | SEM I (Group I) | | | Credits |
|-------------|--|-------|-----------------|----|--------|---------|
| | | | L | T | P | |
| BS11 | Linear Algebra & Differential Calculus | BS | 3 | -- | -- | 3 |
| BS12 | Optics and Modern Physics | BS | 3 | 1 | -- | 4 |
| ES11 | Algorithm approach towards Problem Solving | ES | 3 | -- | -- | 3 |
| ES12 | Digital Circuits | ES | 3 | - | -- | 3 |
| BSL11 | Computational Mathematics Lab-I | BS | -- | -- | 2 | 1 |
| BSL12 | Physics Lab | BS | -- | -- | 2 | 1 |
| ESL11 | Algorithm approach towards Problem Solving Lab | ES | -- | -- | 4(2+2) | 2 |
| ESL12 | Digital Circuits Simulation Lab | ES | -- | -- | 2 | 1 |
| ESL16 | Workshop I | ES | -- | -- | 2 | 1 |
| HSS11 | Intermediate Communicative English | HSS | 2 | - | 2 | 3 |
| MC21 | Environmental Studies (Non-credit) | MC | 1 | -- | -- | -- |
| ABL-A | Essence of Indian Traditional Knowledge (Non-credit) | MC | 1 | -- | -- | -- |
| | Total | | 16 | 1 | 14 | 22 |

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| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|--|-------|----------------------------|----|--------|---------|
| | | | L | T | P | |
| | | | Total | | | |
| BS21 | Integral Calculus & Differential Equations | BS | 3 | -- | -- | 3 |
| BS23 | Applied Chemistry | BS | 3 | -- | -- | 3 |
| ES23 | Basic Electrical and Electronics Engineering | ES | 3 | -- | -- | 3 |
| ES24 | Engineering Graphics | ES | 2 | -- | -- | 2 |
| BSL21 | Computational Mathematics Lab-II | BS | -- | -- | 2 | 1 |
| BSL23 | Applied Chemistry Lab | BS | -- | -- | 2 | 1 |
| ESL23 | Basic Electrical and Electronics Engineering Lab | ES | -- | -- | 2 | 1 |
| ESL24 | Engineering Graphics Lab | ES | -- | -- | 4(2+2) | 2 |
| ESL25 | Python Programming Lab | ES | -- | -- | 2 | 1 |
| ESL26 | Workshop II | ES | -- | -- | 2 | 1 |
| MC22 | Constitution of India (Non-credit) | MC | 1 | -- | -- | -- |
| LA | Liberal Arts (Non-credit) LA1: Yoga Vidya LA2: Music Appreciation LA3: Dramatics LA4: Self Defence LA5: First Aid LA6: Athletics LA7: Aerobics and Fitness LA8: Script Writing LA9: Public Speaking LA10: Photography LA11: Sketching LA12: Vehicle Maintenance and Traffic Rules LA13: Garden design and Maintenance | LA | 1 | | | |
| | Total | | 13 | -- | 14 | 18 |

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 (Autonomous Institute Affiliated to University of Mumbai)

Group 2: Electronics and Electronics & Telecommunication

| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|--|-------|----------------------------|----|--------|---------|
| | | | L | T | P | |
| BS11 | Linear Algebra & Differential Calculus | BS | 3 | -- | -- | 3 |
| BS13 | Applied Chemistry | BS | 3 | -- | -- | 3 |
| ES13 | Basic Electrical Technology | ES | 3 | -- | -- | 3 |
| ESI4 | Engineering Graphics | ES | 2 | -- | -- | 2 |
| BSL11 | Computational Mathematics Lab-I | BS | -- | -- | 2 | 1 |
| BSL13 | Applied Chemistry Lab | BS | -- | -- | 2 | 1 |
| ESL13 | Basic Electrical Technology Lab | ES | -- | -- | 2 | 1 |
| ESL14 | Engineering Graphics Lab | ES | -- | -- | 4(2+2) | 2 |
| ESL15 | Python Programming Lab | ES | -- | -- | 2 | 1 |
| ESL16 | Workshop I | ES | -- | -- | 2 | 1 |
| HSS11 | Intermediate Communicative English | HSS | 2 | -- | 2 | 3 |
| MC22 | Constitution of India (Non-credit) | MC | 1 | -- | -- | -- |
| ABL-A | Essence of Indian Traditional Knowledge (Non-credit) | MC | 1 | -- | -- | -- |
| Total | | | 15 | - | 16 | 21 |

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Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
 (Autonomous Institute Affiliated to University of Mumbai)

| Course Code | Course Name | Group | Teaching Scheme (Hrs./week) | | | Credits |
|-------------|---|-------|-----------------------------|----|--------|---------|
| | | | L | T | P | |
| | | | Total | | | |
| BS21 | Integral Calculus & Differential Equations | BS | 3 | - | -- | 3 |
| BS22 | Solid State Physics & Electrodynamics | BS | 3 | 1 | -- | 4 |
| ES21 | Algorithm Approach towards Problem Solving | ES | 3 | - | -- | 3 |
| ES22 | Digital Circuits | ES | 3 | - | -- | 3 |
| BSL21 | Computational Mathematics Lab-II | BS | -- | -- | 2 | 1 |
| BSL22 | Applied Physics Lab | BS | -- | -- | 2 | 1 |
| ESL21 | Algorithm approach towards Problem Solving Lab | ES | -- | -- | 4(2+2) | 2 |
| ESL22 | Digital Circuits Simulation Lab | ES | -- | -- | 2 | 1 |
| ESL26 | Workshop II | ES | -- | -- | 2 | 1 |
| MC21 | Environmental Studies (Non-credit) | MC | 1 | -- | -- | - |
| LA | Liberal Arts (Non-credit) LA1: Yoga Vidya LA2: Music Appreciation LA3: Dramatics LA4: Self Defence LA5: First Aid LA6: Athletics LA7: Aerobics and Fitness LA8: Script Writing LA9: Public Speaking LA10: Photography LA11: Sketching LA12: Vehicle Maintenance and Traffic Rule LA13: Garden design and Maintenance | LA | 1 | -- | -- | |
| | Total | | 14 | 1 | 12 | 10 |





Model Curriculum for First Year Undergraduate Degree Courses in Engineering & Technology

Chapter -1 General, Course structure & Theme & Semester-wise credit distribution

A. Definition of Credit:

| | |
|------------------------------|-------------|
| 1 Hr. Lecture (L) per week | 1 credit |
| 1 Hr. Tutorial (T) per week | 1 credit |
| 1 Hr. Practical (P) per week | 0.5 credits |
| 2 Hours Practical(Lab)/week | 1 credit |

B. Range of credits –

A range of credits from 150 to 160 for a student to be eligible to get Under Graduate degree in Engineering. A student will be eligible to get Under Graduate degree with Honours or additional Minor Engineering, if he/she completes an additional 20 credits. These could be acquired through MOOCs.

C. Structure of Undergraduate Engineering program:

| S. No. | Category | Suggested Breakup of Credits(Total 160) |
|--------|---|---|
| 1 | Humanities and Social Sciences including Management courses | 12* |
| 2 | Basic Science courses | 25* |
| 3 | Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc | 24* |
| 4 | Professional core courses | 48* |
| 5 | Professional Elective courses relevant to chosen specialization/branch | 18* |
| 6 | Open subjects – Electives from other technical and /or emerging subjects | 18* |
| 7 | Project work, seminar and internship in industry or elsewhere | 15* |
| 8 | Mandatory Courses [Environmental Sciences, Induction training, Indian Constitution, Essence of Indian Traditional Knowledge] | (non-credit) |
| | Total | 160* |

*Minor variation is allowed as per need of the respective disciplines.



D. Credit distribution in the First year of Undergraduate Engineering program:

| | Lecture (L) | Tutorial (T) | Laboratory/Practical (P) | Total credits (C) |
|---------------------------------|----------------|-----------------|-----------------------------|----------------------|
| Chemistry -I | 3 | 1 | 3 | 5.5 |
| Physics | 3 | 1 | 3 | 5.5 |
| Maths-1 | 3 | 1 | 0 | 4 |
| Maths -2 | 3 | 1 | 0 | 4 |
| Programming for Problem solving | 3 | 0 | 4 | 5 |
| English | 2 | 0 | 2 | 3 |
| Engineering Graphics & Design | 1 | 0 | 4 | 3 |
| Workshop/ Practicals | 1 | 0 | 4 | 3 |
| Basic Electrical Engg. | 3 | 1 | 2 | 5 |
| *Biology | 2 | 1 | 0 | 3 |
| *Engg. Mechanics | 3 | 1 | 0 | 4 |
| *Maths-3 | 3 | 1 | 0 | 4 |

*These courses may be offered preferably in the 3rd semester & onwards.

E. Course code and definition:

| Course code | Definitions |
|-------------|---|
| L | Lecture |
| T | Tutorial |
| P | Practical |
| BSC | Basic Science Courses |
| ESC | Engineering Science Courses |
| HSMC | Humanities and Social Sciences including Management courses |
| PCC | Professional core courses |
| PEC | Professional Elective courses |
| OEC | Open Elective courses |
| LC | Laboratory course |
| MC | Mandatory courses |
| PROJ | Project |

F. Category of Courses:

| Sl. No. | Course Code | Course Title | Hours per week | | | Credits | Preferred semester |
|------------|----------------|----------------|----------------|---|---|---------|-----------------------|
| | | | L | T | P | | |
| 2 | BSC101 | Physics | 3 | 1 | 3 | 5.5 | I |
| 3 | BSC102 | Chemistry-I | 3 | 1 | 3 | 5.5 | II |
| 4 | BSC103 | Mathematics -I | 3 | 1 | 0 | 4 | I |
| 5 | BSC104 | Mathematics -2 | 3 | 1 | 0 | 4 | II |





ENGINEERING SCIENCE COURSES

| Sl. No. | Course Code | Course Title | Hours per week | | | Credits | Preferred semester |
|------------|----------------|----------------------------------|----------------|---|---|---------|-----------------------|
| | | | L | T | P | | |
| 1 | ESC101 | Basic Electrical Engineering | 3 | 1 | 2 | 5 | I |
| 2 | ESC102 | Engineering Graphics & Design | 1 | 0 | 4 | 3 | I |
| 3 | ESC103 | Programming for Problem Solving | 3 | 0 | 4 | 5 | II |
| 4 | ESC104 | Workshop/Manufacturing Practices | 1 | 0 | 4 | 3 | II |

HUMANITIES & SOCIAL SCIENCES INCLUDING MANAGEMENT

| Sl. No. | Course Code | Course Title | Hours per week | | | Credits | Preferred Semester |
|------------|----------------|--------------|----------------|---|---|---------|-----------------------|
| | | | L | T | P | | |
| 1 | HSMC101 | English | 2 | 0 | 2 | 3 | II |

G. Structure of curriculum

Mandatory Induction Program

- 3 weeks duration**
- Physical activity
 - Creative Arts
 - Universal Human Values
 - Literary
 - Proficiency Modules
 - Lectures by Eminent People
 - Visits to local Areas
 - Familiarization to Dept./Branch & Innovations

Semester I (First year)

Branch/Course Common to all branches of UG Engineering & Technology

| SL No. | Category | Course Code | Course Title | Hours per week | | | Credits |
|-----------|-----------------------------|----------------|-------------------------------|----------------|---|---|---------|
| | | | | L | T | P | |
| 1 | Basic Science course | BSC101 | Physics | 3 | 1 | 3 | 5.5 |
| 2 | Basic Science course | BSC103 | Mathematics -I | 3 | 1 | 0 | 4 |
| 3 | Engineering Science Courses | ESC101 | Basic Electrical Engineering | 3 | 1 | 2 | 5 |
| 4 | Engineering Science Courses | ESC102 | Engineering Graphics & Design | 1 | 0 | 4 | 3 |

Total credits 17.5





Semester II (First year)

Branch/Course : Common to all branches of UG Engineering & Technology

| Sl. No. | Category | Code | Course Title | Hours per week | | | Credits |
|------------|---|---------|----------------------------------|----------------|---|---|---------|
| | | | | L | T | P | |
| 1 | Basic Science courses | BSC 102 | Chemistry-I | 3 | 1 | 3 | 5.5 |
| 2 | Basic Science courses | BSC 104 | Mathematics -II | 3 | 1 | 0 | 4 |
| 3 | Engineering Science Courses | ESC103 | Programming for Problem Solving | 3 | 0 | 4 | 5 |
| 4 | Engineering Science Courses | ESC104 | Workshop/Manufacturing Practices | 1 | 0 | 4 | 3 |
| 5 | Humanities and Social Sciences including Management courses | HSMC101 | English | 2 | 0 | 2 | 3 |
| | | | | Total credits | | | 20.5 |

Chapter -2

Detailed first year curriculum contents

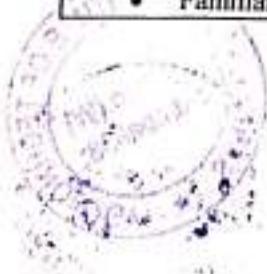
I. Mandatory Induction program

(Please refer Appendix-A for guidelines. Details of Induction program also available in the curriculum of Mandatory courses.)

[Induction program for students to be offered right at the start of the first year.]

3 weeks duration

- Physical activity
- Creative Arts
- Universal Human Values
- Literary
- Proficiency Modules
- Lectures by Eminent People
- Visits to local Areas
- Familiarization to Dept./Branch & Innovations





**All India Council for Technical Education
Model curriculum for
Undergraduate Degree Courses in Engineering & Technology**

ELECTRONICS & COMMUNICATION ENGINEERING

**Chapter -1
General, Course structure & Theme
&
Semester-wise credit distribution**

A. Definition of Credit:

| | |
|------------------------------|-------------|
| 1 Hr. Lecture (L) per week | 1 credit |
| 1 Hr. Tutorial (T) per week | 1 credit |
| 1 Hr. Practical (P) per week | 1.5 credits |
| 2 Hours Practical(Lab)/week | 1 credit |

- B. Range of credits -** A range of credits from 150 to 160 for a student to be eligible to get Under Graduate degree in Engineering. A student will be eligible to get Under Graduate degree with Honours or additional Minor Engineering, if he/she completes an additional 20 credits. These could be acquired through MOOCs.

C. Structure of Undergraduate Engineering program :

| S. No. | Category | Suggested Breakup of Credits(Total 161) |
|-----------|--|---|
| 1 | Humanities and Social Sciences including Management courses | 12* |
| 2 | Basic Science courses | 25* |
| 3 | Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc | 24* |
| 4 | Professional core courses | 48* |
| 5 | Professional Elective courses relevant to chosen specialization/branch | 18* |
| 6 | Open subjects – Electives from other technical and /or emerging subjects | 18* |
| 7 | Project work, seminar and internship in industry or elsewhere | 15* |
| 8 | Mandatory Courses [Environmental Sciences, Induction Program, Indian Constitution, Essence of Indian Traditional Knowledge] | (non-credit) |
| | Total | 160* |

*Minor variation is allowed as per need of the respective disciplines.

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D. Credit distribution in the First year of Undergraduate Engineering program :

| | Lecture | Tutorial | Laboratory/Practical | Total credits |
|---------------------------------------|---------|----------|----------------------|---------------|
| Chemistry -I | 3 | 1 | 3 | 5.5 |
| Physics | 3 | 1 | 3 | 5.5 |
| Maths-1 | 3 | 1 | 0 | 4 |
| Maths -2 | 3 | 1 | 0 | 4 |
| Programming for Problem solving | 3 | 0 | 4 | 5 |
| English | 2 | 0 | 2 | 3 |
| Engineering Graphics & Design | 1 | 0 | 4 | 3 |
| Workshop/ Practicals | 1 | 0 | 4 | 3 |
| Basic Electrical Engg. | 3 | 1 | 2 | 5 |
| *Biology | 2 | 1 | 0 | 3 |
| *Engg. Mechanics | 3 | 1 | 0 | 4 |
| *Maths-3 | 3 | 1 | 0 | 4 |

*These courses may be offered preferably in the 3rd semester & onwards.

E. Course code and definition:

| Course code | Definitions |
|-------------|-----------------------------|
| EC | Core Courses |
| ECEL | Program Electives |
| ECPI | Project Stage-I |
| ECP2 | Project Stage-II |
| BS | Basic Science |
| ES | General Engineering Courses |
| HS | HUSS |
| OE | Open Electives |
| MC | Mandatory Courses |



**Program Core Courses:**

| Sr. No. | Course Code | Course Title | Hrs. /Week L: T: P | Credits | Preferred Semester |
|---------|-------------|---|-----------------------|---------|--------------------|
| 1 | EC01 | Electronic Devices | 3:0:0 | 3 | III |
| 2 | EC02 | Electronics Devices Lab | 0:0:2 | 1 | III |
| 3 | EC03 | Digital System Design | 3:0:0 | 3 | III |
| 4 | EC04 | Digital System Design Lab | 0:0:2 | 1 | III |
| 5 | EC05 | Signals and Systems | 3:0:0 | 3 | III |
| 6 | EC06 | Network Theory | 3:0:0 | 3 | III |
| 7 | EC07 | Analog and Digital Communication | 3:0:0 | 3 | IV |
| 8 | EC08 | Analog and Digital Communication Lab | 0:0:2 | 1 | IV |
| 9 | EC09 | Analog Circuits | 3:0:0 | 3 | IV |
| 10 | EC10 | Analog Circuits Lab | 0:0:2 | 1 | IV |
| 11 | EC11 | Microcontrollers | 3:0:0 | 3 | IV |
| 12 | EC12 | Microcontrollers Lab | 0:0:2 | 1 | IV |
| 13 | EC13 | Electromagnetic Waves | 3:0:0 | 3 | V |
| 14 | EC14 | Electromagnetic Waves Lab | 0:0:2 | 1 | V |
| 15 | EC15 | Computer Architecture | 3:0:0 | 3 | V |
| 16 | EC16 | Probability Theory and Stochastic Processes | 3:0:0 | 3 | V |
| 17 | EC17 | Digital Signal Processing | 3:0:0 | 3 | V |
| 18 | EC18 | Digital Signal Processing Lab | 0:0:2 | 1 | V |
| 19 | EC19 | Control Systems | 3:0:0 | 3 | VI |
| 20 | EC20 | Computer Networks | 3:0:0 | 3 | VI |
| 21 | EC21 | Computer Network Lab | 0:0:4 | 2 | VI |
| 22 | EC22 | Electronics Measurement Lab | 0:0:2 | 1 | VI |
| 23 | EC23 | Mini Project/Electronic Design workshop | 0:0:4 | 2 | VI |

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**Program Elective Courses:**

| Sr. No. | Course Code | Course Title | Hrs. /Week L: T: P | Credits | Preferred Semester |
|---------|-------------|-----------------------------------|-----------------------|---------|--------------------|
| 1 | ECEL1 | Microwave Theory and Techniques | 3:0:0 | 3 | VII/VIII |
| 2 | ECEL2 | Fiber Optic Communications | 3:0:0 | 3 | VII/VIII |
| 3 | ECEL3 | Information Theory and Coding | 3:0:0 | 3 | V/VI |
| 4 | ECEL4 | Speech and Audio Processing | 3:0:0 | 3 | V/VI |
| 5 | ECEL5 | Introduction to MEMS | 3:0:0 | 3 | V/VI |
| 6 | ECEL6 | Adaptive Signal Processing | 3:0:0 | 3 | VII/VIII |
| 7 | ECEL7 | Antennas and Propagation | 3:0:0 | 3 | VII/VIII |
| 8 | ECEL8 | Bio-Medical Electronics | 3:0:0 | 3 | V/VI |
| 9 | ECEL9 | Mobile Communication and Networks | 3:0:0 | 3 | VII/VIII |
| 10 | ECEL10 | Digital Image & Video Processing | 3:0:0 | 3 | VII/VIII |
| 11 | ECEL11 | Mixed Signal Design | 3:0:0 | 3 | VII/VIII |
| 12 | ECEL12 | Wireless Sensor Networks | 3:0:0 | 3 | VII/VIII |
| 13 | ECEL13 | CMOS Design | 3:0:0 | 3 | V/VI |
| 14 | ECEL14 | Power Electronics | 3:0:0 | 3 | V/VI |
| 15 | ECEL15 | Satellite Communication | 3:0:0 | 3 | VII/VIII |
| 16 | ECEL16 | High Speed Electronics | 3:0:0 | 3 | VII/VIII |
| 17 | ECEL17 | Wavelets | 3:0:0 | 3 | VII/VIII |
| 18 | ECEL18 | Embedded systems | 3:0:0 | 3 | VII/VIII |
| 19 | ECEL19 | Nano electronics | 3:0:0 | 3 | V/VI |
| 20 | ECEL20 | Error correcting codes | 3:0:0 | 3 | VII/VIII |
| 21 | ECEL21 | Scientific computing | 3:0:0 | 3 | V/VI |

Project/Dissertation:

| Sr. No. | Course Code | Course Title | Hrs. /Week L: T: P | Credits | Preferred Semester |
|---------|-------------|--------------------------------|-----------------------|---------|--------------------|
| 1 | ECPI | Project Work I | 0: 0: 10 | 5 | VII |
| 2 | ECP2 | Project Work II & Dissertation | 0: 0:18 | 9 | VIII |





**4 year Curriculum structure
Undergraduate Degree in Engineering & Technology**

Branch / course : Computer Science and Engineering
Total credits (4 year course): 159

I. I. Induction Program (Please refer Appendix-A for guidelines)

| Induction program (mandatory) | 3 weeks duration (Please refer Appendix-A for guidelines & also details available in the curriculum of Mandatory courses) |
|--|---|
| Induction program for students to be offered right at the start of the first year. | <ul style="list-style-type: none"> • Physical activity • Creative Arts • Universal Human Values • Literary • Proficiency Modules • Lectures by Eminent People • Visits to local Areas • Familiarization to Dept./Branch & Innovations |

II Semester-wise structure of curriculum

[L = Lecture, T = Tutorials, P = Practicals & C = Credits]

**Semester I (First year) Curriculum
Branch/Course: Computer Science Engineering**

| Sl. No. | Type of course | Course Code | Course Title | Hours per week | | | Credits |
|------------|----------------------------|----------------|---|----------------|----------|-----------|---------|
| | | | | Lecture | Tutorial | Practical | |
| 1 | Basic Science course | BSC 101 | Physics (semi-conductor Physics) | 3 | 1 | 3 | 5.5 |
| 2 | Basic Science course | BSC 102 | Mathematics-I (Calculus & Linear Algebra) | 3 | 1 | 0 | 4 |
| 3 | Engineering Science Course | ESC 101 | Basic Electrical Engineering | 3 | 1 | 2 | 5 |
| 4 | Engineering Science Course | ESC 102 | Engineering Graphics & Design | 1 | 0 | 4 | 3 |
| | | | | Total credits | | | 17.5 |



Semester II (First year) Curriculum
Branch/Course: Computer Science Engineering

| Sl. No. | Type of course | Code | Course Title | Hours per week | | | Credits |
|------------|---|----------|--|----------------|----------|-----------|---------|
| | | | | Lecture | Tutorial | Practical | |
| 1 | Basic Science course | BSC 202 | Chemistry-I | 3 | 1 | 3 | 5.5 |
| 2 | Basic Science course | BSC 201 | Mathematics-II (Probability and Statistics) | 3 | 1 | 0 | 4 |
| 3 | Engineering Science Course | ESC 201 | Programming for Problem Solving | 3 | 0 | 4 | 5 |
| 4 | Engineering Science Course | ESC 202 | Workshop /Manufacturing Practices | 1 | 0 | 4 | 3 |
| 5 | Humanities & Social Sciences including Management | HSMC 201 | English | 2 | 0 | 2 | 3 |
| | | | | Total credits | | | 20.5 |

Semester III (Second year) Curriculum
Branch/Course: Computer Science Engineering

| Sl. No. | Type of course | Code | Course Title | Hours per week | | | Credits |
|------------|---|-----------|--|----------------|----------|-----------|---------|
| | | | | Lecture | Tutorial | Practical | |
| 1 | Engineering Science Course | ESC 301 | Analog Electronic Circuits | 3 | 0 | 4 | 5 |
| 2 | Professional Core Courses | PCC-CS301 | Data structure & Algorithms | 3 | 0 | 4 | 5 |
| 3 | Professional Core Courses | ESC 302 | Digital Electronics | 3 | 0 | 4 | 5 |
| 4 | Professional Core Courses | PCC-CS302 | IT Workshop (Sci Lab/MATLAB) | 1 | 0 | 4 | 3 |
| 5 | Basic Science course | BSC 301 | Mathematics-III (Differential Calculus) | 2 | 0 | 0 | 2 |
| 6 | Humanities & Social Sciences including Management courses | HSMC 301 | Humanities-I | 3 | 0 | 0 | 3 |
| | | | | Total credits | | | 23 |



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Choice of Category '1' or '2' shall be taken from the students in the mid of SEM VI.

Category '1': Student chooses for institute offered internship:

In this case student attends 'Summer Term' of 6 weeks duration.

Internship should be done by the student from 15th January to 30th June.

All the courses shall run twice a week during 'Summer Term'. Thus 1 hour lecture should be conducted for 12 hours in a summer term to get 1 credit.
ESE for summer term open elective courses shall be conducted in first and second week of July.

Make-up Examination for open elective courses shall be conducted along with SEM VI Make-up Examination.

Category '2': Student opt out of 'Institute offered company internship'

Student attends normal regular semesters as per institute calendar

SEM VIII students will attend OE courses along with SEM VI students.

Student appears for regular ESE examination.

Make-up Examination shall be conducted in first and second week of July.

MOOC courses can be taken any time during the entire academic year. However MOOC* credits will be added to semester VIII as and when 'pass' certificate is submitted by the student.

List of MOOC courses will be curated by the department and students need to select from the list. If student wish to have course which is not present in the list then written approval from HoD and Dean Academics is necessary.

S. Patel

V23





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Choice Based Internship Policy Details

Category '1':

Students who want to register for placement and interested in joining semester long internship will have following procedure

1. They will follow the regular placement procedure during their 7th Semester
2. They will proceed for internship in the company in which they have been selected from the next January.
3. Their credit requirements of 8th semester will be completed at the end of the 'summer term' of their semester 6th.
4. The semester long internship will have credits assigned to it with appropriate evaluation mechanism.
5. The detail credit structure for semester 8th of category '1' will be declared in their next term in Jan 2019.

Category '2':

Students who do not want semester long internship (i.e. would want to continue with their higher education immediately after their B.Tech./B.E. program).

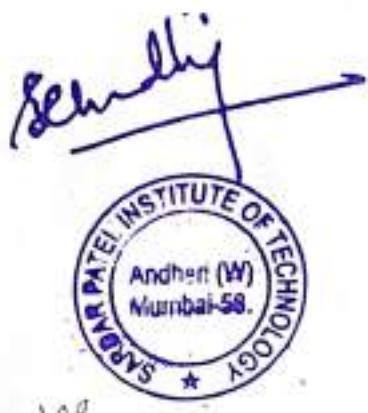
1. The normal semester 7th and 8th will be working for them as per their regular academic calendar
2. The detail credit structure for semester 8 of category '2' will be declared in their next term in Jan 2019.
3. Students will be allowed to participate for the placement in normal company.

S. Chintala



Internship Related Other Guidelines:

1. Once a particular 'Category' is selected by the student then he/she will **NOT be allowed to change the category** for whatsoever reason.
2. If performance of the student is reported as poor by the industry or industry raises concerns about attitude /disciplinary issues of student during the internship then student may be called back to the institute. In this case he/she will have to complete the coursework equivalent to internship credits. If institute runs 'summer term' then student can take courses (two theory courses and two labs) in summer term. Otherwise student will have to take courses (two theory courses and two labs) in the ODD semester of the next academic year. In this case student will be allowed to sit for the placement after rejoining the institute.
3. Internships will be given by the S.P.I.T. as per the selection criteria of company. Following are the **other avenues for internships**:
 - a. SPTBI
 - b. Reputed organizations like IIT, BARC, TIFR etc. with condition that the organization selected is ready to do the assessment for 10 credits of internship
 - c. If student get an internship offer on his own in a particular company then he/she needs to connect company. In this case S.P.I.T. approval is must.
4. If student is selected in a company, accepts the offer and then do not want to join internship due to the job profile or mindset change is highly discouraged.



MONITORING & EVALUATION OF INTERNSHIP

| Course Name: Internship Course Code: INT | MSE | ESE | Total Marks | Total Credits |
|---|-----|-----|-------------|---------------|
| Institute Supervisor Evaluation | 70 | 70 | 140 | 05 |
| Industry Mentor Evaluation | 70 | 70 | 140 | 05 |
| | 140 | 140 | 280 | 10 |

For MSE and ESE: 60 Marks Rubrics Based Evaluation
10 Marks Internship Report Evaluation

Satisfactory →



FORMAT: EVALUATION OF INTERN

Student Name: _____

Mentor/Supervisor: _____

Title: _____

Company/Organization: _____

Internship Address: _____

Dates of Internship: From _____ To _____

Please evaluate your intern for the following parameters on the scale of 1 to 5.

(Needs improvement=1; Satisfactory=2; Good=3; Excellent=4)

| S.N. | Parameters | Scale (1 to 4) |
|------|--|----------------|
| 1 | Behaviors | |
| 2 | Performs in a dependable manner | |
| 3 | Cooperates with co-workers and supervisors | |
| 4 | Shows interest in work Learns quickly | |
| 5 | Shows initiative | |
| 6 | Accepts responsibility | |
| 7 | Accepts criticism | |
| 8 | Demonstrates organizational skills | |
| 9 | Shows good judgment | |
| 10 | Analyzes problems effectively | |
| 11 | Is self-reliant | |
| 12 | Communicates well | |
| 13 | Has a professional attitude and appearance | |
| 14 | Is punctual | |
| 15 | Uses time effectively | |

Rate the following parameters for Internship Report
(Needs improvement=1; Satisfactory=1.5; Good=2; Excellent=2.5)

| | | |
|--------------------|--|----|
| 17 | Writes effectively | |
| 18 | Uses technical knowledge and expertise | |
| 19 | Demonstrates creativity/originality | |
| 20 | Produces high quality work | |
| Total (Out of 100) | | 70 |

Additional comments, if any:

Signature of Industry Mentor/Institute supervisor _____

Signature of HR Manager/HoD _____



Proposed Scheme with 160 credits from 2019-20:

| Course Code | Course Name | Group | SEM III | | | Credits |
|-------------|--|-------|---------|---|----|---------|
| | | | L | T | P | |
| BS31 | Applied Mathematics I* | BS | 3 | 1 | - | 4 |
| EL31 | Department Core-1 | PC | 3 | - | - | 3 |
| EL32 | Department Core-2 | PC | 3 | - | - | 3 |
| EL33 | Department Core-3 | PC | 3 | 1 | - | 4 |
| ELL31 | Department Core Lab-1 | PC | - | - | 2 | 1 |
| ELL32 | Department Core Lab-2 | PC | - | - | 2 | 1 |
| ELL33 | Department Core Lab-3 | PC | - | - | 2 | 1 |
| ELL34 | Object Oriented Programming Lab* | PC | - | - | 2 | 1 |
| BS32 | Human Health Systems Approach | BS | 1 | - | - | 1 |
| SDX | SCOPE Course (Optional) | SD | - | - | - | -- |
| ABLI | Building Automation, Fire Safety and Electronic Security | ABL | - | - | 2 | 1 |
| CEPI | Introduction to CEP (Optional) | CEP | - | - | - | -- |
| BC | Fundamentals of Mathematics(Noncredit) (only for direct second year students) | BC | 2 | - | - | -- |
| AC | Additional Course (For Fast Learners) | PC | 2 | - | 2 | 3 |
| | Total | | 13+2 | 3 | 10 | 21 |

| Course Code | Course Name | Group | SEM IV | | | Credits |
|-------------|---|-------|--------|---|----|---------|
| | | | L | T | P | |
| BS41 | Applied Mathematics II* | BS | 3 | 1 | - | 4 |
| EL41 | Department Core-4 | PC | 3 | - | - | 3 |
| EL42 | Department Core-5 | PC | 3 | - | - | 3 |
| EL43 | Department Core-6 | PC | 3 | - | - | 3 |
| ELL41 | Department Core Lab-4 | PC | - | - | 2 | 1 |
| ELL42 | Department Core Lab-5 | PC | - | - | 2 | 1 |
| ELL43 | Department Core Lab-6 | PC | - | - | 2 | 1 |
| ELL44 | Department Core Lab-7 | PC | - | - | 2 | 1 |
| ELL45 | Department Core Lab-8 | PC | - | - | 2 | 1 |
| ELP41 | Minor Project-I | PR | - | - | 2 | 1 |
| LA^ | Liberal Arts (Non credit) | LA | 1 | - | - | -- |
| SDX | SCOPE Course (Optional) | SD | - | - | - | -- |
| ABL2 | Occupational Safety & Legal Studies for Engineers | ABL | - | - | 2 | 1 |
| CEP2 | Problem solving module-I (Optional) | CEP | - | - | - | -- |
| AC | Additional Course (For Fast Learners) | PC | 2 | - | 2 | 3 |
| | Total | | 13 | 1 | 14 | 20 |

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130



| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|---|-------|----------------------------|---|----|---------|
| | | | L | T | P | |
| EL51 | Department Core-7 | PC | 3 | - | - | 3 |
| EL52 | Department Core-8 | PC | 3 | - | - | 3 |
| EL53 | Department Core-9 | PC | 3 | - | - | 3 |
| EL54 | Department Core-10 | PC | 3 | - | - | 3 |
| ELL51 | Department Core Lab-9 | PC | -- | - | 2 | 1 |
| ELL52 | Department Core Lab-10 | PC | -- | - | 2 | 1 |
| ELL53 | Department Core Lab-11 | PC | -- | - | 2 | 1 |
| ELL54 | Department Core Lab-12 | PC | -- | 1 | 2 | 2 |
| ELL55 | Department Core Lab-13 | PC | -- | - | 2 | 1 |
| ELP51 | Minor Project-II | PR | -- | - | 2# | 1 |
| MEC^ | Mandatory Elective Course | MEC | 2 | - | - | 2 |
| SDX | SCOPE Course (Optional) | SD | -- | - | - | -- |
| ABL3 | Design Thinking, Diversity and Workplace Etiquettes | ABL | -- | - | 2 | 1 |
| CEP3 | Problem solving module-II (Optional) | CEP | -- | - | - | - |
| AC | Additional Course (For Fast Learners) | PC | 2 | - | 2 | 3 |
| | Total | | 14 | 1 | 14 | 22 |

SEM VI

| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|---------------------------------------|-------|----------------------------|---|-------|---------|
| | | | L | T | P | |
| EL61^ | Department Elective-I | PC | 3 | - | - | 3 |
| EL62^ | Department Elective-2 | PC | 3 | - | - | 3 |
| ELL61^ | Department Elective Lab-1 | PC | -- | - | 2 | 1 |
| ELL62^ | Department Elective Lab-2 | PC | -- | - | 2 | 1 |
| ELL63 | Department Core Lab-14 | PC | -- | - | 2 | 1 |
| ELP61 | Major Project I | PR | -- | - | 8# | 4 |
| HSS61 | Advanced Communication Skills | HSS | 1 | - | 2 | 2 |
| OE^ | Open Elective @ | OE | 3@ | - | 2@ | 4@ |
| SDX | SCOPE Course (Optional) | SD | -- | - | - | -- |
| ABL4 | Technical Paper and Patent Drafting | ABL | -- | - | 2 | 1 |
| CEP4 | Problem solving module-III (Optional) | CEP | -- | - | - | -- |
| MEC^ | Mandatory Elective Course | MEC | 2 | - | - | 2 |
| AC | Additional Course (For Fast Learners) | PC | 2 | - | 2 | 3 |
| | Total | | 9+3@ | - | 18+2@ | 18+4@ |



| SEM VII | | | | | | |
|-------------|--|-------|----------------------------|----|-------|---------|
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| | | | L | T | P | |
| ELE71^ | Department Elective-3 | PE | 3 | -- | -- | 3 |
| ELE72^ | Department Elective-4 | PE | 3 | -- | -- | 3 |
| ELEL71^ | Department Elective Lab-3 | PE | -- | -- | 2 | 1 |
| ELEL72^ | Department Elective Lab-4 | PE | -- | -- | 2 | 1 |
| ELL73 | Department Core Lab-15 | PC | -- | -- | 2 | 1 |
| HSS81 | Technology Entrepreneurship Lab | HSS | -- | -- | 2 | 1 |
| ELP71 | Major Project-II | PR | -- | -- | 16# | 8 |
| OE^ | Open Elective @ | OE | 3@ | -- | 2@ | 4@ |
| MOOC | MOOC | MOOC | -- | -- | -- | 2 |
| ABL5 | Financial Planning, Taxation Policies and Investment | ABL | -- | -- | 2 | 1 |
| CEP5 | Problem solving module-IV (Optional) | CEP | -- | -- | -- | - |
| | Total | | 6+3@ | -- | 26+2@ | 21+4@ |

SEM VIII

| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|-------------------------------------|-------|----------------------------|----|----|---------|
| | | | L | T | P | |
| INT | Internship (6 Months) | INT | -- | -- | -- | 10 |
| CEP6 | Problem solving module-V (Optional) | CEP | -- | -- | -- | - |
| | Total | | | | | 10 |

| SEM | Teaching Scheme (Hrs/week) | | | Total Hrs /Week | Credits |
|------|----------------------------|----|-------|-----------------|---------|
| | L | T | P | | |
| I | 13 | 4 | 12 | 29 | 21 |
| II | 14 | 2 | 8 | 24 | 19 |
| III | 13+2 | 3 | 10 | 26+2 | 21 |
| IV | 13 | 1 | 14 | 28 | 20 |
| V | 14 | 1 | 14 | 29 | 22 |
| VI | 9+3@ | -- | 18+2@ | 32 | 18+4@ |
| VII | 6+3@ | -- | 26+2@ | 37 (project 16) | 21+4@ |
| VIII | | | | | 10 |
| | Total Credits | | | | 160 |

Additional 12 credits for advanced courses for fast learners.



**Electronics Engineering Department
Proposed Scheme with 160 credits from 2019-20:**

| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|--|-------|----------------------------|----|----|---------|
| | | | L | T | P | |
| BS31 | Applied Mathematics I* | BS | 3 | 1 | -- | 4 |
| EL31 | Department Core-I: Analog Electronics-I | PC | 3 | -- | -- | 3 |
| EL32 | Department Core-II: Circuit Theory | PC | 3 | -- | -- | 3 |
| EL33 | Department Core-III: Electromagnetic Engineering | PC | 3 | 1 | -- | 4 |
| ELL31 | Department Core Lab-I: Analog Electronics-I Lab | PC | -- | -- | 2 | 1 |
| ELL32 | Department Core Lab-II: Circuit Theory Lab | PC | -- | -- | 2 | 1 |
| ELL33 | Department Core Lab-III: Electronic Instruments and Measurements Lab | PC | -- | -- | 2 | 1 |
| ELL34 | Object Oriented Programming Lab* | PC | -- | 1 | 2 | 2 |
| BS32 | Human Health Systems Approach | BS | 1 | -- | -- | 1 |
| SDX | SCOPE Course (Optional) | SD | -- | -- | -- | -- |
| ABL1 | Building Automation, Fire Safety and Electronic Security | ABL | -- | -- | 2 | 1 |
| CEP1 | Introduction to CEP (Optional) | CEP | -- | -- | -- | -- |
| BC | Fundamentals of Mathematics(Noncredit) (only for direct second year students) | BC | 2 | -- | -- | -- |
| AC | Additional Course (For Fast Learners) | PC | 2 | -- | 2 | 3 |
| | Total | | 13+2 | 3 | 10 | 21 |
| SEM IV | | | | | | |
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| | | | L | T | P | |
| BS41 | Applied Mathematics II* | BS | 3 | 1 | -- | 4 |
| EL41 | Department Core-I: Analog Electronics-II | PC | 3 | -- | -- | 3 |
| EL42 | Department Core-II: Principles of Control Systems | PC | 3 | -- | -- | 3 |
| EL43 | Department Core-III: Computer Organization and Architecture | PC | 3 | -- | -- | 3 |
| ELL41 | Department Core Lab-I: Analog Electronics-II Lab | PC | -- | -- | 2 | 1 |
| ELL42 | Department Core Lab-II: Principles of Control Systems Lab | PC | -- | -- | 2 | 1 |
| ELL43 | Department Core Lab-III: Electrical Machines Lab | PC | -- | -- | 2 | 1 |
| ELL44 | Department Core Lab-IV: Fundamentals of Communication Engineering Lab | PC | -- | -- | 2 | 1 |
| ELL45 | Department Core Lab-IV: Digital Hardware and HDL Programming Lab | PC | -- | -- | 2 | 1 |
| ELP41 | Action Research Project-I | PR | -- | -- | 2 | 1 |
| LA^ | Liberal Arts (Non credit) | LA | 1 | -- | -- | -- |
| SDX | SCOPE Course (Optional) | SD | -- | -- | -- | -- |
| ABL2 | Occupational Safety & Legal Studies for Engineers | ABL | -- | -- | 2 | 1 |
| CEP2 | Problem solving module-I (Optional) | CEP | -- | -- | -- | -- |
| AC | Additional Course (For Fast Learners) | PC | 2 | -- | 2 | 3 |
| | Total | | 13 | 1 | 14 | 20 |



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SEM V

| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|---|-------|----------------------------|---|----|---------|
| | | | L | T | P | |
| EL51 | Department Core-7: Linear Integrated Circuits | PC | 3 | — | — | 3 |
| EL52 | Department Core-8: Micro-Architectures | PC | 3 | — | — | 3 |
| EL53 | Department Core-9: Signals and Systems | PC | 3 | — | — | 3 |
| EL54 | Department Core-10: Power Electronics | PC | 3 | — | — | 3 |
| ELL51 | Department Core Lab-9: Linear Integrated Circuits Lab | PC | — | — | 2 | 1 |
| ELL52 | Department Core Lab-10: Micro-Architectures Lab | PC | — | — | 2 | 1 |
| ELL53 | Department Core Lab-11: Signals and Systems Lab | PC | — | — | 2 | 1 |
| ELL54 | Department Core Lab-12: Instrumentation Lab | PC | — | 1 | 2 | 2 |
| ELL55 | Department Core Lab-13: Power Electronics | PC | — | — | 2 | 1 |
| ELP51 | Action Research Project-II | PR | — | — | 2# | 1 |
| MEC^ | Mandatory Elective Course | MEC | 2 | — | — | 2 |
| SDX | SCOPE Course (Optional) | SD | — | — | — | — |
| ABL3 | Design Thinking, Diversity and Workplace Etiquettes | ABL | — | — | 2 | 1 |
| CEP3 | Problem solving module-II (Optional) | CEP | — | — | — | — |
| AC | Additional Course (For Fast Learners) | PC | 2 | — | 2 | 3 |
| | Total | | 14 | 1 | 14 | 22 |

SEM VI

| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|--|-------|----------------------------|---|-------|---------|
| | | | L | T | P | |
| EL61^ | Department Elective-1 | PC | 3 | — | — | 3 |
| EL62^ | Department Elective-2 | PC | 3 | — | — | 3 |
| ELL61^ | Department Elective Lab-1 | PC | — | — | 2 | 1 |
| ELL62^ | Department Elective Lab-2 | PC | — | — | 2 | 1 |
| ELL63 | Department Core Lab-14: Fundamentals of Operating System Lab | PC | — | — | 2 | 1 |
| ELP61 | Major Project I | PR | — | — | 8# | 4 |
| HSS61 | Advanced Communication Skills | HSS | 1 | — | 2 | 2 |
| OE^ | Open Elective @ | OE | 3@ | — | 2@ | 4@ |
| SDX | SCOPE Course (Optional) | SD | — | — | — | — |
| ABL4 | Technical Paper and Patent Drafting | ABL | — | — | 2 | 1 |
| CEP4 | Problem solving module-III (Optional) | CEP | — | — | — | — |
| MEC^ | Mandatory Elective Course | MEC | 2 | — | — | 2 |
| AC | Additional Course (For Fast Learners) | PC | 2 | — | 2 | 3 |
| | Total | | 9+3@ | — | 18+2@ | 18+4@ |

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July 1998



| SEM VII | | | | | | |
|-------------|--|-------|----------------------------|----|-------|---------|
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| | | | L | T | P | Total |
| ELE71^ | Department Elective-3 | PE | 3 | -- | -- | 3 |
| ELE72^ | Department Elective-4 | PE | 3 | -- | -- | 3 |
| ELEL71^ | Department Elective Lab-3 | PE | -- | -- | 2 | 1 |
| ELEL72^ | Department Elective Lab-4 | PE | -- | -- | 2 | 1 |
| ELL73 | Department Core Lab-15:Product Design Lab | PC | -- | -- | 2 | 1 |
| HSS81 | Technology Entrepreneurship Lab | HSS | -- | -- | 2 | 1 |
| ELP71 | Major Project-II | PR | -- | -- | 16# | 8 |
| OE^ | Open Elective @ | OE | 3@ | -- | 2@ | 4@ |
| MOOC | MOOC | MOOC | -- | -- | -- | 2 |
| ABLS | Financial Planning, Taxation Policies and Investment | ABL | -- | -- | 2 | 1 |
| CEPS | Problem solving module-IV (Optional) | CEP | -- | -- | -- | -- |
| | Total | | 6+3@ | -- | 26+2@ | 21+4@ |

| SEM VIII | | | | | | |
|-------------|-------------------------------------|-------|----------------------------|----|----|---------|
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| | | | L | T | P | Total |
| INT | Internship (6 Months) | INT | -- | -- | -- | 10 |
| CEP6 | Problem solving module-V (Optional) | CEP | -- | -- | -- | -- |
| | Total | | | | | 10 |

| SEM | Teaching Scheme (Hrs/week) | | | Total Hrs /Week | Credits Total |
|---------------|----------------------------|----|-------|-----------------|---------------|
| | L | T | P | | |
| I | 13 | 4 | 12 | 29 | 21 |
| II | 14 | 2 | 8 | 24 | 19 |
| III | 13+2 | 3 | 10 | 26+2 | 21 |
| IV | 13 | 1 | 14 | 28 | 20 |
| V | 14 | 1 | 14 | 29 | 22 |
| VI | 9+3@ | -- | 18+2@ | 32 | 18+4@ |
| VII | 6+3@ | -- | 26+2@ | 37 (project 16) | 21+4@ |
| VIII | | | | | 10 |
| Total Credits | | | | | 160 |

Additional 12 credits for advanced courses for fast learners.

Additional Courses for Additional Credits (12)

Industry Driven Courses

OR

S.P.I.T. approved MOOC

OR

SEM III: Digital System Design

SEM IV: Computer Methods for Circuit Simulation

SEM V: Process Instrumentation and Controls

SEM VI: Photovoltaic Systems

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159



PE: Professional Elective**Elective 1:**

1. Digital Signal Processing and Processors
2. IC and MEMS Technology
3. Advanced Power Electronics
4. Communication Engineering

Elective 2:

1. Image Processing
2. Digital VLSI Design
3. Electronic System Design
4. Radiating Systems

Elective 3:

1. Medical Electronics
2. Analog CMOS VLSI Design
3. Electronic Systems Testing and Reliability
4. Computer and Communication Networks

Elective 4:

1. Principles of Soft Computing
2. Mixed Signal VLSI Design
3. Robotics and Machine Vision
4. Microwave and Optical Communication

| S.N. | Category | Credits | | | | | | | | Total Credits |
|------|--|---------|----|-----|----|----|----|-----|------|---------------|
| | | I | II | III | IV | V | VI | VII | VIII | |
| 1 | Humanities and Social Sciences including Management Courses# | 3 | | 1 | 1 | 3 | 5 | 2 | | 15 |
| 2 | Basic Science Courses | 9 | 8 | 5 | 4 | | | | | 26 |
| 3 | Engineering Science Courses | 10 | 10 | | | | | | | 20 |
| 4 | Professional Core Courses | | | 15 | 14 | 18 | 9 | 3* | | 59 |
| 5 | Professional Elective Courses | | | | | | | 8 | | 08 |
| 6 | Open Electives | | | | | | 4 | 4 | | 08 |
| 7 | Project and Internship | | | | 1 | 1 | 4 | 8 | 10 | 24 |
| | Total | 22 | 18 | 21 | 20 | 22 | 22 | 25 | 10 | 160 |

#Includes ABL and MEC

*MOOC=2






Sardar Patel Institute of Technology
 Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
 (Autonomous Institute Affiliated to University of Mumbai)

Electronics Engineering Department

Semester VII common to both category '1' and category '2'

Student choose either A or B electives track

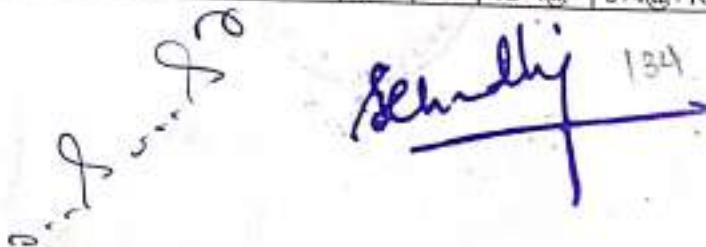
| SEM VII | | | | | | |
|-------------|---|-------|----------------------------|----|-----|---------|
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| | | | L | T | P | Total |
| ELE71^ | Elective-I | PE | 3 | -- | -- | 3 |
| ELE72^ | Elective-II | PE | 3 | -- | -- | 3 |
| ELE73^ | Elective-III | PE | 3 | -- | -- | 3 |
| ELEL71^ | Elective-I Lab | PE | -- | -- | 2 | 1 |
| ELEL72^ | Elective-II Lab | PE | -- | -- | 2 | 1 |
| ELEL73^ | Elective-III Lab | PE | -- | -- | 2 | 1 |
| ELP71 | Category-'1': Major Project-II Category-'2': Major Project-I | PR | -- | -- | 10# | 5 |
| CEPS | Problem solving module-V (Optional) | CEP | | | | |
| Total | | | 9 | -- | 16 | 17 |

Student choose either A or B electives track from ELE71 and ELE72. Any one course from ELE73A or ELE73B can be taken.

- | | |
|--------|--|
| ELE71A | IC and MEMS Technology |
| ELE71B | Digital Signal and Image Processing |
| ELE72A | Analog CMOS VLSI Design |
| ELE72B | Neural Network and Fuzzy Logic Systems |
| ELE73A | Photovoltaic systems and Smart Grid |
| ELE73B | Computer and Communication Networks |

Summer Term for Category '1': Student chooses for semester long internship

| Summer Term | | | | | | |
|-------------|--|-------|----------------------------|----|-------|----------|
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| HSS81 | Technology Entrepreneurship Lab | HSS | -- | -- | 2 | 1 |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| ELP81 | Category-'1': Major Project-I | PR | -- | -- | 10 | 5 |
| MOOC | MOOC (Min 8 week course) | MOOC | -- | -- | -- | 2 |
| INT | Internship | PR | -- | -- | -- | 10# |
| ABLS | Financial Planning, Taxation Policies and Investment (Noncredit) | - | -- | -- | -- | -- |
| Total | | | 2 | -- | 12+4@ | 8+4@+10# |


Sardar Patel Institute of Technology
 BHAVAN'S CAMPUS, MUNSHI NAGAR, ANDHERI (WEST), MUMBAI-400058
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 (Autonomous Institute Affiliated to University of Mumbai)

Semester VIII for Category '2': Student opt out of 'Semester Long Internship'

| SEM VIII | | | | | | |
|-------------|---|-------|----------------------------|----|-------|---------|
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| HSS8^ | Technology Entrepreneurship Lab | HSS | -- | -- | 2 | 1 |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| ELP81 | Category-'2': Major Project-II | PR | -- | -- | 10 | 5 |
| MOOC | MOOC (Min 8 week course) | MOOC | -- | -- | -- | 2 |
| ABLS | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- | -- |
| ELE81^ | A: Analog CMOS VLSI Design B: Neural Network and Fuzzy Logic Systems | PE | 3 | 1 | | 4 |
| ELE82^ | A: Electronic System Design B: Radiating Systems | PE | 3 | 1 | | 4 |
| ELEL81^ | A: Analog CMOS VLSI Design Lab B: Neural Network and Fuzzy Logic Systems Lab | PE | | | 2 | 1 |
| ELEL82^ | A: Electronic System Design Lab B: Radiating Systems Lab | PE | | | 2 | 1 |
| | Total | | 6+2@ | 2 | 16+4@ | 18+4@ |

List of Open Elective Courses:

- OE1: Consumer Electronics (ETRX)
- OE2: Robotic Vision (ETRX)
- OE3: Cyber Security and Digital Forensics (EXTC)
- OE4: Internet of Things (EXTC)
- OE5: Fundamentals of Computational Intelligence (COMP)
- OE6: Fundamentals of Data Structures and Algorithms (COMP)
- OE7: Software Testing (IT)
- OE8: Database Management Systems (IT)





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Evaluation Scheme

| B.E. Electronics Engineering (SEM VII) | | | | | |
|--|---|-------|-----|-----|-------|
| Course Code | Course Name | Marks | | | |
| | | ISE | MSE | ESE | Total |
| ELE71^ | Elective-I | 20 | 20 | 60 | 100 |
| ELE72^ | Elective-II | 20 | 20 | 60 | 100 |
| ELE73^ | Elective-III | 20 | 20 | 60 | 100 |
| ELEL71^ | Elective-I Lab | 40 | -- | -- | 40 |
| ELEL72^ | Elective-II Lab | 40 | -- | -- | 40 |
| ELEL73^ | Elective-III Lab | 40 | -- | -- | 40 |
| ELP71 | Category-'1': Major Project-II Category-'2': Major Project-I | 80& | -- | 20 | 100 |
| CEPS | Problem solving module-V (Optional) | -- | -- | -- | -- |
| Total | | | | | 520 |

| For Category '2': B.E. Electronics Engineering (SEM VIII) | | | | | |
|---|---|-------|-----|-----|-------|
| Course Code | Course Name | Marks | | | |
| | | ISE | MSE | ESE | Total |
| HSS81 | Technology Entrepreneurship Lab | 40 | -- | -- | 40 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| ELP81 | Category-'1': Major Project-I | 80& | -- | 20 | 100 |
| MOOC | MOOC (Min 8 week course) | -- | -- | -- | 100 |
| ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- |
| ELE81^ | A: Analog CMOS VLSI Design B: Neural Network and Fuzzy Logic | 20 | 20 | 60 | 100 |
| ELE82^ | A: Electronic System Design B: Radiating Systems | 20 | 20 | 60 | 100 |
| ELEL81^ | A: Analog CMOS VLSI Design Lab B: Neural Network and Fuzzy Logic Lab | 40 | -- | -- | 40 |
| ELEL82^ | A: Electronic System Design Lab B: Radiating Systems Lab | 40 | -- | -- | 40 |
| Total | | | | | 660 |

& Phase-I: 40 Phase-II: 40

| SUMMER TERM: For Category '1': B.E. Electronics Engineering (SEM VIII) | | | | | |
|--|--|-------|-----|-----|-------|
| Course Code | Course Name | Marks | | | |
| | | ISE | MSE | ESE | Total |
| HSS81 | Technology Entrepreneurship Lab | 40 | -- | -- | 40 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| ELP81 | Category-'2': Major Project-II | 80& | -- | 20 | 100 |
| MOOC | MOOC (Min 8 week course) | -- | -- | -- | 100 |
| ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- |
| INT | Internship | -- | -- | -- | *280 |
| Total | | | | | 660 |

* Kindly refer internship evaluation guidelines for 280 marks

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Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
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Electronics and Telecommunication Engineering Department

Semester VII common to both category '1' and category '2'

| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|---|-------|----------------------------|----|-----|---------|
| | | | L | T | P | |
| ET71 | Mobile and Wireless Technologies | PC | 3 | -- | -- | 3 |
| ET72 | Microwave and Optical Fiber Communication | PC | 3 | -- | -- | 3 |
| ETL71 | Mobile and Wireless Technologies Lab | PC | -- | -- | 2 | 1 |
| ETL72 | Microwave and Optical Fiber Communication Lab | PC | -- | -- | 2 | 1 |
| ETEL71 | Elective-I Lab | PE | -- | 1 | 2 | 2 |
| ETEL72 | Elective-II Lab | PE | -- | 1 | 2 | 2 |
| ETP71 | Category-'1': Major Project-II Category-'2': Major Project-I | PR | -- | -- | 10# | 5 |
| CEP5 | Problem solving module-V (Optional) | CEP | | | | |
| | Total | | 6 | 2 | 20 | 17 |

Student choose either A or B electives track

- ETEL71A Machine Learning and Artificial Intelligence
- ETEL71B Advanced Signal Processing
- ETEL71C IP Network Design
- ETEL72A Cryptography and Network Security
- ETEL72B Multimedia Communication Systems

Summer Term for Category '1': Student chooses for semester long internship

| Summer Term | | | | | | |
|-------------|--|-------|----------------------------|----|-------|----------|
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| HSS81 | Technology Entrepreneurship Lab | HSS | -- | -- | 2 | 1 |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| ETP81 | Category '1' :Major Project-I | PR | -- | -- | 10 | 5 |
| MOOC | MOOC (Min 8 week course) | MOOC | -- | -- | -- | |
| INT | Internship | PR | -- | -- | -- | 10# |
| ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- | -- |
| | Total | | 2 | -- | 12+4@ | 8+4@+10# |

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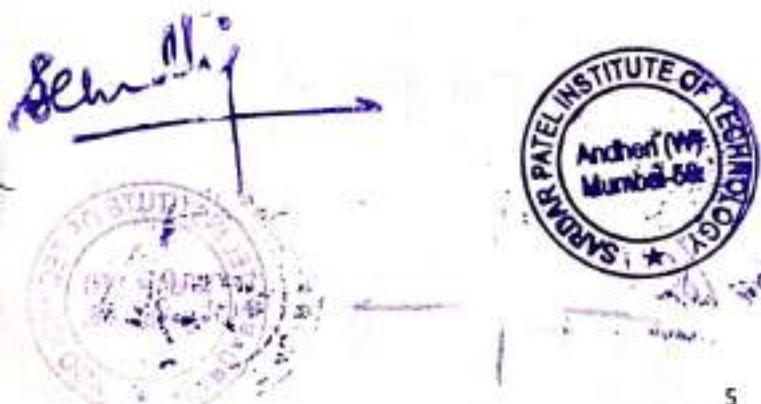
Semester VIII for Category '2': Student opt out of 'Semester Long Internship'

| Course Code | Course Name | SEM VIII | | | Credits |
|-------------|--|----------|----------------------------|----|---------|
| | | Group | Teaching Scheme (Hrs/week) | | |
| HSS81 | Technology Entrepreneurship Lab | HSS | -- | -- | 2 |
| OE^ | Open Elective @ | OE | 1@ | | 2@ |
| OE^ | Open Elective @ | OE | 1@ | | 2@ |
| ETP81 | Category-'2':Major Project-II | PR | -- | -- | 2@ |
| MOOC | MOOC (Min 8 week course) | MOOC | -- | -- | 5 |
| ABLS | Financial Planning, Taxation Policies and Investment (Noncredit) | | -- | -- | 2 |
| ETE81^ | A. Telecom Network Management B. Wireless Network Planning and Design | | 3 | 1 | 4 |
| ETE82^ | A. Space Communication Technologies B. Cloud Computing and Analytics | | 3 | 1 | 4 |
| ETEL81^ | A. Telecom Network Management Lab B. Wireless Network Planning and Design Lab | | -- | -- | 1 |
| ETEL82^ | A. Space Technologies Lab B. Cloud Computing and Analytics Lab | | -- | -- | 1 |
| | Total | | 6+2@ | 2 | 16+4@ |
| | | | | | 18+4@ |

List of Open Elective Courses:

- OE1: Consumer Electronics (ETRX)
- OE2: Robotic Vision (ETRX)
- OE3: Cyber Security and Digital Forensics (EXTC)
- OE4: Internet of Things (EXTC)

- OES: Fundamentals of Computational Intelligence (COMP)
- OE6: Fundamentals of Data Structures and Algorithms (COMP)
- OE7: Software Testing (IT)
- OE8: Database Management Systems (IT)





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Evaluation Scheme

SEM VII

| Course Code | Course Name | | ISE | MSE | ESE | Total |
|-------------|---|-----|-----|-----|-----|-------|
| ET71 | Mobile and Wireless Technologies | PC | 20 | 20 | 60 | 100 |
| ET72 | Microwave and Optical Fiber Communication | PC | 20 | 20 | 60 | 100 |
| ETL71 | Mobile and Wireless Technologies Lab | PC | 40 | -- | 20 | 60 |
| ETL72 | Microwave and Optical Fiber Communication Lab | PC | 40 | -- | -- | 40 |
| ETEL71 | Elective-I Lab | PE | 40 | -- | 20 | 60 |
| ETEL72 | Elective-II Lab | PE | 40 | -- | 20 | 60 |
| ETP71 | Category-'1': Major Project-II Category-'2': Major Project-I | PR | 80 | -- | 20 | 100 |
| CEP5 | Problem solving module-V (Optional) | CEP | | | | |
| | Total | | | | | 520 |

SEM VIII

| Course Code | Course Name | Group | ISE | MSE | ESE | Total |
|-------------|--|-------|-----|-----|-----|-------|
| HSS81 | Technology Entrepreneurship Lab | HSS | 40 | -- | -- | 40 |
| OE^ | Open Elective @ | OE | 40 | 10 | 20 | 70 |
| OE^ | Open Elective @ | OE | 40 | 10 | 20 | 70 |
| ETP81 | Category-'2': Major Project-II | PR | 80& | -- | 20 | 100 |
| MOOC | MOOC (Min 8 week course) | MOOC | -- | -- | -- | 100 |
| ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | | | | | |
| ETE81 | A. Telecom Network Management B. Wireless Network Planning and Design | | 20 | 20 | 60 | 100 |
| ETE82 | A. Space Technologies B. Cloud Computing and Analytics | | 20 | 20 | 60 | 100 |
| ETEL81 | A. Network Management Lab C. Wireless Network Planning and Design Lab | | 40 | -- | -- | 40 |
| ETEL82 | A. Space Technologies Lab B. Cloud Computing and Analytics Lab | | 40 | -- | -- | 40 |
| | Total | | | | | 660 |

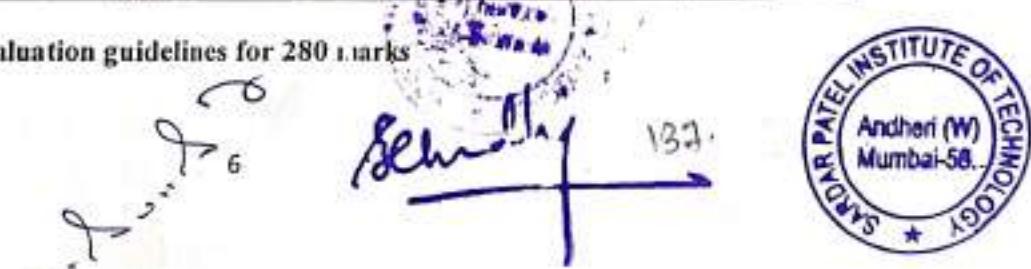
& Phase-I: 40

Phase-II: 40

SUMMER TERM: For Category '1': B.E. Electronics and Telecommunication Engineering (SEM VIII)

| Course Code | Course Name | Marks | | |
|-------------|--|-------|-----|------|
| | | ISE | MSE | ESE |
| HSS81 | Technology Entrepreneurship Lab | 40 | -- | -- |
| OE^ | Open Elective @ | 40 | 10 | 20 |
| OE^ | Open Elective @ | 40 | 10 | 20 |
| ELP81 | Category-'2': Major Project-II | 80& | -- | 20 |
| MOOC | MOOC (Min 8 week course) | -- | -- | -- |
| ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- |
| INT | Internship | -- | -- | *280 |
| | Total | | | 660 |

* Kindly refer internship evaluation guidelines for 280 marks



Computer Engineering Department

Semester VII common to both category '1' and category '2'

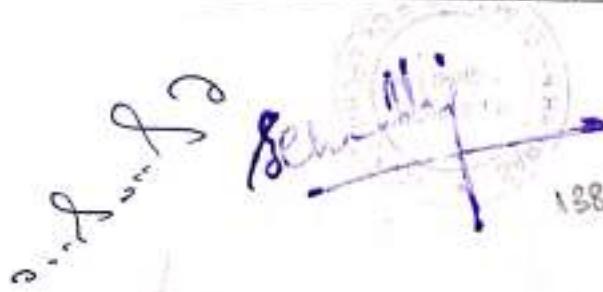
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|---|-------|----------------------------|----|-----|---------|
| | | | L | T | P | |
| CE71 | Artificial Intelligence and Soft Computing | PC | 3 | -- | -- | 3 |
| CE72 | Distributed Systems | PC | 3 | -- | -- | 3 |
| CEE71^ | Elective-I | PE | 3 | -- | -- | 3 |
| CEE72^ | Elective-II | PE | 3 | -- | -- | 3 |
| CEL71 | Artificial Intelligence & Soft Computing Lab | PC | -- | -- | 2 | 1 |
| CEL72 | Distributed Systems Lab | PC | -- | -- | 2 | 1 |
| CEEL71^ | Elective-I Lab | PE | -- | -- | 2 | 1 |
| CEEL72^ | Elective-II Lab | PE | -- | -- | 2 | 1 |
| CEP71 | Category-'1': Major Project-II Category-'2': Major Project-I | PR | -- | -- | 10# | 5 |
| CEP5 | Problem solving module-V (Optional) | CEP | | | | |
| | Total | | 12 | -- | 18 | 21 |

Elective Subjects

| | | |
|--------|-------------|---|
| CEE71^ | Elective-I | A. Advanced Algorithm & Complexity B. Big Data Analytics |
| CEE72^ | Elective-II | A. Image Processing B. Decision Making and Business Intelligence |

Summer Term for Category '1': Student chooses for semester long internship

| Course Code | Course Name | Group | Summer Term | | | Credits |
|-------------|--|-------|-------------|----|-------|----------|
| | | | L | T | P | |
| HSS81 | Technology Entrepreneurship Lab | HSS | -- | -- | 2 | 1 |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| CEP81 | Category-'1': Major Project-I | PR | -- | -- | 10 | 5 |
| MOOC | MOOC (Min 8 week course) | MOOC | -- | -- | -- | 2 |
| INT | Internship | PR | -- | -- | -- | 10# |
| ABLS | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- | -- |
| | Total | | 2@ | -- | 12+4@ | 8+4@+10# |


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Semester VIII for Category '2': Student opt out of 'Semester Long Internship'

| Course Code | Course Name | Group | SEM VIII | | | Credits |
|-------------|--|-------|----------|----|-------|---------|
| | | | L | T | P | |
| HSS81 | Technology Entrepreneurship Lab | HSS | -- | -- | 2 | 1 |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| CEP81 | Category-'2': Major Project-II | PR | -- | -- | 10 | 5 |
| MOOC | MOOC (Min 8 week course) | MOOC | -- | -- | -- | 2 |
| ABLS | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- | -- |
| CEE81^ | A. Human Machine Interaction B. Digital Forensic | PE | 3 | 1 | -- | 4 |
| CEE82^ | A. High Performance Computing B. Data Science | PE | 3 | 1 | -- | 4 |
| CEEL81^ | A. Human Machine Interaction Lab B. Digital Forensic Lab | PE | -- | -- | 2 | 1 |
| CEEL82^ | A. High Performance Computing Lab B. Data Science Lab | PE | -- | -- | 2 | 1 |
| | Total | | 6+2@ | 2 | 16+4@ | 18+4@ |

List of Open Elective Courses:

- OE1: Consumer Electronics (ETRX)
- OE2: Robotic Vision (ETRX)
- OE3: Cyber Security and Digital Forensics (EXTC)
- OE4: Internet of Things (EXTC)
- OE5: Fundamentals of Computational Intelligence (COMP)
- OE6: Fundamentals of Data Structures and Algorithms (COMP)
- OE7: Software Testing (IT)
- OE8: Database Management Systems (IT)



Evaluation Scheme

| Course Code | Course Name | B.E. Computers Engineering (SEM VII) | | | |
|--|--|--------------------------------------|-----|-----|-------|
| | | ISE | MSE | ESE | Total |
| CE71 | Artificial Intelligence and Soft Computing | 20 | 20 | 60 | 100 |
| CE72 | Distributed Systems | 20 | 20 | 60 | 100 |
| CEE71^ | Elective-I | 20 | 20 | 60 | 100 |
| CEE72^ | Elective-II | 20 | 20 | 60 | 100 |
| CEL71 | Artificial Intelligence & Soft Computing Lab | 40 | -- | -- | 40 |
| CEL72 | Distributed Systems Lab | 40 | -- | -- | 40 |
| CEEL71^ | Elective-I Lab | 40 | -- | -- | 40 |
| CEEL72^ | Elective-II Lab | 40 | -- | -- | 40 |
| CEP71 | Category-'1': Major Project-II Category-'2': Major Project-I | 80& | -- | 20 | 100 |
| CEP5 | Problem solving module-V (Optional) | | | | 660 |
| For Category '2': Computers Engineering (SEM VIII) | | | | | |
| Course Code | Course Name | Marks | | | |
| | | ISE | MSE | ESE | Total |
| HSS81 | Technology Entrepreneurship Lab | 40 | -- | -- | 40 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| CEP81 | Category-'2': Major Project-II | 80& | -- | 20 | 100 |
| MOOC | MOOC (Min 8 week course) | -- | -- | -- | 100 |
| ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- |
| CEE81^ | A. Human Machine Interaction B. Digital Forensic | 20 | 20 | 60 | 100 |
| CEE82^ | A. High Performance Computing B. Data Science | 20 | 20 | 60 | 100 |
| CEEL81^ | A. Human Machine Interaction Lab B. Digital Forensic Lab | 40 | -- | -- | 40 |
| CEEL82^ | A. High Performance Computing Lab B. Data Science Lab | 40 | -- | -- | 40 |
| | Total | | | | 660 |

& Phase-I: 40 Phase-II: 40

SUMMER TERM: For Category '1': B.E. Computers Engineering (SEM VIII)

| Course Code | Course Name | Marks | | | |
|-------------|--|-------|-----|-----|-------|
| | | ISE | MSE | ESE | Total |
| HSS81 | Technology Entrepreneurship Lab | 40 | -- | -- | 40 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| ELP81 | Category-'1': Major Project-I | 80& | -- | 20 | 100 |
| MOOC | MOOC (Min 8 week course) | -- | -- | -- | 100 |
| ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- |
| INT | Internship | -- | -- | -- | *280 |
| | Total | | | | 660 |

* Kindly refer internship evaluation guidelines for 280 marks

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Information Technology Department

Semester VII common to both category '1' and category '2'

| Course Code | Course Name | Group | SEM VII | | | Credits |
|-------------|-------------------------------------|-------|---------|----|-------|---------|
| | | | L | T | P | |
| | | | | | Total | |
| IT71 | Digital Image Processing | PC | 2 | -- | -- | 2 |
| ITE71^ | Elective-I | PE | 3 | -- | -- | 3 |
| ITE72^ | Elective-II | PE | 3 | -- | -- | 3 |
| ITL71 | Digital Image Processing lab | PC | -- | -- | 2 | 1 |
| ITEL71^ | Elective-I Lab | PE | -- | -- | 2 | 1 |
| ITEL72^ | Elective-II Lab | PE | -- | -- | 2 | 1 |
| ITP71 | Major Project | PR | -- | -- | 10# | 5 |
| CEP5 | Problem solving module-V (Optional) | CEP | | | | |
| Total | | | 8 | -- | 16 | 16 |

| | |
|--------|---|
| ITE71^ | A. Data Analytics B. Ad-hoc and Wireless Sensor Network C. AI and Expert System |
| ITE72^ | A. Soft computing B. Cloud Computing C. IT Infrastructure Management |

Summer Term for Category '1': Student chooses for semester long internship

| Course Code | Course Name | Group | Summer Term | | | Credits |
|-------------|--|-------|-------------|----|-------|----------|
| | | | L | T | P | |
| HSS81 | Technology Entrepreneurship Lab | HSS | -- | -- | 2 | 1 |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| ITP81 | Major Project | PR | -- | -- | 10 | 5 |
| MOOC | MOOC (Min 8 week course) | MOOC | -- | -- | -- | 2 |
| INT | Internship | PR | -- | -- | -- | 10# |
| ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- | -- |
| Total | | | 2 | -- | 12+4@ | 8+4@+10# |





Sardar Patel Institute of Technology

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Semester VIII for Category '2': Students opt out of 'Semester Long Internship'

| SEM VIII | | | | | | |
|-------------|--|-------|----------------------------|----|-------|---------|
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| HSS81 | Technology Entrepreneurship Lab | HSS | -- | -- | 2 | 1 |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| ITP81 | Major Project | PR | -- | -- | 10 | 5 |
| MOOC | MOOC (Min 8 week course) | MOOC | -- | -- | -- | 2 |
| ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- | -- |
| IT81 | Enterprise Resource Planning | PC | 3 | 1 | -- | 4 |
| IT82 | UX Design | PC | 3 | 1 | -- | 4 |
| ITL81 | Enterprise Resource Planning lab | PC | -- | -- | 2 | 1 |
| ITL82 | UX Design lab | PC | -- | -- | 2 | 1 |
| | Total | | 6+2@ | 2 | 16+4@ | 18+4@ |

List of Open Elective Courses:

@OE1: Consumer Electronics (ETRX)

OE2: Robotic Vision (ETRX)

OE3: Cyber Security and Digital Forensics (EXTC)

OE4: Internet of Things (EXTC)

OES: Fundamentals of Computational Intelligence (COMP)

OE6: Fundamentals of Data Structures and Algorithms (COMP)

OE7: Software Testing (IT)

OE8: Database Management Systems (IT)





Sardar Patel Institute of Technology

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Evaluation Scheme

| B.E./B.Tech Information Technology (SEM VII) | | | | | |
|--|---|-------|-----|-----|-------|
| Course Code | Course Name | Marks | | | |
| | | ISE | MSE | ESE | Total |
| IT71 | Digital Image processing | 15 | 15 | 30 | 60 |
| ITE71^ | Elective-I | 20 | 20 | 60 | 100 |
| ITE72^ | Elective-II | 20 | 20 | 60 | 100 |
| ITL71 | Digital Image processing lab | 40 | -- | -- | 40 |
| ITEL71^ | Elective-I Lab | 40 | -- | -- | 40 |
| ITEL72^ | Elective-II Lab | 40 | -- | -- | 40 |
| ITP71 | Category-'1': Major Project-II Category-'2': Major Project-I | 80& | -- | 20 | 100 |
| CEP5 | Problem solving module-V (Optional) | -- | -- | -- | -- |
| Total | | | | | 480 |

For Category '2': B.E./B.Tech Information Technology (SEM VIII)

| Course Code | Course Name | Marks | | | |
|-------------|--|-------|-----|-----|-------|
| | | ISE | MSE | ESE | Total |
| HSS81 | Technology Entrepreneurship Lab | 40 | -- | -- | 40 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| ITP81 | Category-'1': Major Project-I | 80& | -- | 20 | 100 |
| MOOC | MOOC (Min 8 week course) | -- | -- | -- | 100 |
| ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- |
| IT81 | Enterprise Resource Planning | 20 | 20 | 60 | 100 |
| IT82 | UX Design | 20 | 20 | 60 | 100 |
| ITL81 | Enterprise Resource Planning lab | 40 | -- | -- | 40 |
| ITL82 | UX Design lab | 40 | -- | -- | 40 |
| Total | | | | | 660 |

& Phase-I: 40 Phase-II: 40

SUMMER TERM: For Category '1': B.E. /B.Tech Information Technology (SEM VIII)

| Course Code | Course Name | Marks | | | |
|-------------|--|-------|-----|-----|-------|
| | | ISE | MSE | ESE | Total |
| HSS81 | Technology Entrepreneurship Lab | 40 | -- | -- | 40 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| OE^ | Open Elective @ | 40 | 10 | 20 | 70 |
| ELP81 | Category-'2': Major Project-II | 80& | -- | 20 | 100 |
| MOOC | MOOC (Min 8 week course) | -- | -- | -- | 100 |
| ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- |
| INT | Internship | -- | -- | -- | *280 |
| Total | | | | | 660 |

* Kindly refer internship evaluation guidelines for 280 marks

S. Chaudhary (141)





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Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Minor Revision in the existing Curriculum of SE, TE and M.Tech. in Electronics and Telecommunication Engineering w.e.f 2019-20

| Sr. No | Existing | Revision |
|--------|---|--|
| 1. | In M.Tech. Sem -II: PG Lab-IV Credits Assigned (P):1, MSE: 10, Course Outcomes Experiment Details are mentioned. | In PG Lab-IV Credits Assigned (P):2, MSE: -, Course Outcomes and Experiment Details are revised. |
| 2. | In M.Tech. Sem -II: ETE92A: Error Correction Code Teaching Scheme (L): 4 Credits Assigned (L): 4, Total: 4, And the no hours allotted to each module is module 1 (8hrs), module 2 (10hrs), module 3 (10hrs), module 4 (10hrs), module 5 (10hrs), module 6 (10hrs) | In M.Tech. ETE92A: Error Correction Code Teaching Scheme (L): 3 Credits Assigned (L): 3, Total: 3, And the no hours allotted to each module is module 1 (8hrs), module 2 (10hrs), module 3 (10hrs), module 4 (8hrs), module 5 (6hrs) and Module 6 is deleted |
| 3. | In TE Sem V: ETL53 Antenna Lab :Course Outcomes Experiment Details are mentioned | In TE Sem V: ETL53 Antenna Lab :Course Outcomes Experiment Details are revised. |
| 4. | In SE Sem IV: ETL45: Computer Methods for circuit Simulation lab Course Outcomes Experiment Details are mentioned | In SE Sem IV: ETL45: Computer Methods for circuit Simulation lab Course Outcomes and Experiment Details are revised. |
| 5. | In TE Sem VI: ET63: Embedded Systems & RTOS Teaching Scheme (L): - ,(P)-2, Credits Assigned (L): - , (P)-1, Total - 1And the no hours allotted to each module is module 2 (8hrs), module 4 (10hrs), module 5 (8hrs) | In TE Sem VI: ET63: Embedded Systems & RTOS Teaching Scheme (L): 3 ,(P)-1, Credits Assigned (L): 3, (P)-1, Total -4.And the no hours allotted to each module is module 2 (14hrs), module 4 (6hrs), module 5 (6hrs) |
| 6. | In OE4 the all the modules and Experiments detail are present. | In OE4 in all the modules and Experiments are revised. |
| 7. | In Sem V: ETP56: Product Design – I and Sem VI: ETP65: Product Design – II Course Outcomes and Course objectives are mentioned. | In Sem VI: ETP56: Product Design – I and Sem VI: ETP65: Product Design – II Course Outcomes and Course objectives are revised |
| 8. | In Sem V: ETL55: Photovoltaic Laboratory Teaching Scheme (T): 1 and List od Experiments are mentioned | In Sem V : ETL55: Photovoltaic Laboratory Teaching Scheme (T): -- and List od Experiments are revised |

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Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
 (Autonomous Institute Affiliated to University of Mumbai)



Minutes of

First Meeting of the

Academic Council

Held on

Thursday, June 8, 2017 at 2.30 PM

at

**Conference Room No. 105
 Sardar Patel Institute of Technology
 Andheri (West), Mumbai-58**

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A G E N D A

| Item No. | Item Description |
|----------|--|
| 1. | Welcome to members of the Academic Council for First Meeting. |
| 2. | Proposal for implementation of revised curriculum from academic year 2017-18 for B. Tech program. |
| 3. | Proposal for implementation of revised scheme and course contents for semesters I and II from academic year 2017-18 for B.Tech program in all branches of Engineering. |
| 4. | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Computer Engineering. |
| 5. | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Electronics Engineering. |
| 6. | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Electronics & Telecommunication. |
| 7. | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Information Technology. |
| 8. | Proposal for implementation of revised scheme and course contents for semesters I and II from academic year 2017-18 for M. Tech program in Computer Engineering. |
| 9. | Proposal for implementation of revised scheme and course contents for semesters I and II from academic year 2017-18 for M. Tech program in Electronics & Telecommunication. |
| 10. | Proposal for implementation of revised scheme and course contents for semesters I, II, III and IV from academic year 2017-18 for M. Tech program in Master of Computer Applications. |
| 11. | Proposal for implementation of revised assessment scheme for the course contents for all semesters for B.Tech., M.Tech and MCA Programs. |
| 12. | Proposal for approval of academic calendar for the academic year 2017-18 |
| 13. | Any other matter with permission of chair. |

Dr. Surendra Rathod
Dean Academics and Member Secretary, Academic Council

[Signature]

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Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology

(Autonomous Institute Affiliated to University of Mumbai)

Minutes of First Meeting of Academic Council

Thursday, June 8, 2017 at 2.30 PM

First Meeting of Academic Council was held on Thursday, June 8, 2017 at 2.30 PM in the Conference Room No. 105. Following members were present:

| Sr. No | Name |
|--------|---|
| 1 | Dr. Prachi Gharpure, Principal & Chairman |
| 2 | Dr. Milind Sohoni, External Expert |
| 3 | Dr. Zia Saquib, External Expert |
| 4 | Dr. Satyanarayana Bhasatte, External Expert |
| 5 | Dr. Jonathan Joshi, External Expert |
| 6 | Dr. Y.S.Rao, Head Electronics & Telecommunication Engineering Department, Member |
| 7 | Dr. D.R.Kalbande, Head Computer Engineering Department, Member |
| 8 | Dr. Rita Das, Head Applied Sciences & Humanities Department, Member |
| 9 | Dr. Radha Shankar Mani, Head Information Technology Department, Member |
| 10 | Dr. Pooja Roundale, Head Master of Computer Applications, Member |
| 11 | Prof. D.D. Ambawade, Associate Professor, Electronics & Telecom. Engineering Department, Member |
| 12 | Prof. Surekha Dholay , Associate Professor, Computer Engineering Department, Member |
| 13 | Prof. Kailash Devadkar, Associate Professor, Information Technology Department, Member |
| 14 | Prof. D.M.Patil, Associate Professor, Applied Sciences & Humanities Department, Invitee |
| 15 | Dr. Sudhir Dhage, Professor, Computer Engineering Department , Invitee |
| 16 | Dr. Rajendra Sutar, Associate Professor, Electronics Engineering Department, Invitee |
| 17 | Dr. Surendra Rathod, Dean(Academics) & Member Secretary |

Name of the University of Mumbai, Nominee is yet to be received from Mumbai University:

Following member is given leave of absence due to ongoing examinations:

| | |
|---|---|
| 1 | Prof. Kiran Talele, Associate Professor, Electronics Engineering Department, Member |
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Item No 1 Welcome to members of the Academic Council for First Meeting.

Chairman Academic Council Dr. Prachi Gharpure started meeting with the orientation and brief of academic council. She introduced members and welcomed them to the meeting.

Item No 2 Proposal for implementation of revised curriculum from academic year 2017-18 for B. Tech program.

Member secretary presented agenda and thought process behind the curriculum and assessment. He explained the key elements and salient features of the proposed curriculum. He informed that curriculum for first and second year are changed but for third and final is same as Mumbai University for 2017-2018. He has introduced members to the proposed CEP, ABL, LA and SCOPE modules.

Dr. Satyanarayana spoke about the replacement of SCOPE courses and Open Elective in Sem VII. Look at the course in a more formal evaluation for SCOPE courses. For each track model evaluation should be such that you can replace it with a credit course. He also suggested that IEEE can help in conducting SCOPE activities.

Dr. Jonathan Joshi suggested that now skill based training is must and we should prepare students for various job roles. For every job skill sets are important and around 300 hours of training is required to acquire these skill sets. Thus it is good that SCOPE is introduced by S.P.I.T. He also suggested that institute should give data of skill sets acquired by students to placement office for placement purpose.

Dr. Sohoni said that ensure the contact between examiners and student. Since Dr. Rathod informed that in some of the courses autograder can be used for evaluation. Dr. Sohoni said that one should be careful when you have replacement of standard methodology with innovation in assessment. He also cautioned that assessment should not become formality and there should be personal rapport between students and teachers. Dr. Jonathan Joshi informed that innovations like autograders work as teaching assistants and hence they are useful tools. Dr. Satyanarayana also told to ensure proper evaluation of SCOPE. He said that do not leave students completely in the hands of industries; teacher must be involved in these courses. Since these courses involve additional manpower and infrastructure resources all members agreed that these should be paid course.

Activity based learning execution needs to be planned particularly for ABL1 'Building Automation, Fire Safety and Electronic Security'. Dr. Jonathan Joshi told that rethink about only one day of activity based learning. It should be spread over entire semester so that sufficient learning happens. All external experts suggested breaking the activities in various parts and then carrying out, for example, building automation is one activity, fire safety is another and electronic security is third. Dr. Jonathan suggested to have paper and patent drafting can be separate activity.

Dr. Satyanarayana suggested considering cultural for Liberal Art courses.

Dr. Sohoni spoke about the role of engineer. Engineers must understand what society is. They are social people and they may choose to become employee. There are examples like Anandvan, Amul which are created by social engineering. Current job roles need to be created and those are the roles for which we need to train/educate the students. Problems should come from the real world. For this take students' tour somewhere, make them think and see basic system then honest data gathering should be done. Broader understanding to empower faculty members is required.

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| Item No 3 | Proposal for implementation of revised scheme and course contents for semesters I and II from academic year 2017-18 for B.Tech program in all branches of Engineering. |
| | Dr. Rita Das, Head of Applied Sciences and Humanities Department presented scheme and syllabus for semesters I and II for all UG program. She informed that scheme and syllabus are approved in the first year Board of Studies meeting. |
| | Dr. Satyanarayana spoke about the importance of correctly speaking language in public without being biased. Hence he suggested including the related contents in communication skills course. Dr. Rita Das informed that in first year it is a basic communication skill and then in higher semesters students will have one more course on advance communication skills in which these contents can be included. |
| | All the members of the academic council approved the scheme and course contents for semesters I and II from academic year 2017-18 for UG program in all branches of Engineering. |
| Item No 4 | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Computer Engineering. |
| | Dr. D. R. Kalbande, Head of Computer Engineering Department presented scheme and syllabus for semesters III and IV for Computer Engineering UG program. He informed that scheme and syllabus are approved in the Computer Engineering Board of Studies meeting. |
| | It is resolved that the credits for bridge course 'Fundamentals of Mathematics' in semester III for lateral entry students of all branches should be removed and this course should be offered as non-credit course. |
| | All the members of the academic council approved the scheme and course contents for semesters III and IV from academic year 2017-18 for UG program in Computer Engineering. |

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Item No 5

Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Electronics Engineering.

Dr. S. S. Rathod, Head of Electronics Engineering Department presented scheme and syllabus for semesters III and IV for Electronics Engineering UG program. He informed that scheme and syllabus are approved in the Electronics Engineering Board of Studies meeting.

Dr. S. S. Rathod informed about the innovations done in content delivery of course Electronic Instruments and measurements lab. Dr. Y. S. Rao cautioned that it should not become the course which increases documentation and technical aspects should be taken care of. Dr. Satyanarayana informed that there is a need of innovations in content delivery to engage students. He also cautioned about content delivery in HDL programming lab and computer applications in circuit simulation lab.

All the members of the academic council approved the scheme and course contents for semesters III and IV from academic year 2017-18 for UG program in Electronics Engineering.

Item No 6

Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Electronics & Telecommunication.

Prof. D. D. Ambawade, Associate Professor in Electronics & Telecommunication Engineering Department presented scheme and syllabus for semesters III and IV for Electronics & Telecommunication Engineering UG program. He informed that scheme and syllabus are approved in the Electronics & Telecommunication Engineering Board of Studies meeting.

He informed about the philosophy of formation of subject domains and the distribution of subjects in various semesters as per the subject domain.

All the members of the academic council approved the scheme and course contents for semesters III and IV from academic year 2017-18 for UG program in Electronics & Telecommunication Engineering.

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| Item No 7 | Proposal for implementation of revised scheme and course contents for semesters III and IV from academic year 2017-18 for B. Tech program in Information Technology. |
| | Dr. Radha Shankarmani, Head of Information Technology Department presented scheme and syllabus for semesters III and IV for Information Technology UG program. She informed that scheme and syllabus are approved in the Information Technology Board of Studies meeting. |
| | Dr. Y. S. Rao pointed out that there are six courses in semester III and it will increase the student load and number of examinations. But Dr. Radha Shankarmani insisted that these are fundamental courses and it is the necessity of scheme due to prerequisite and forth coming courses. Also DBMS is the common course in Computer and IT department which should be highlighted by putting *. |
| | All the members of the academic council approved the scheme and course contents for semesters III and IV from academic year 2017-18 for UG program in Information Technology. |
| Item No 8 | Proposal for implementation of revised scheme and course contents for semesters I and II from academic year 2017-18 for M. Tech program in Computer Engineering. |
| | Dr. Sudhir Dhage, Professor in Computer Engineering Department presented scheme and syllabus for semesters I, II, III and IV for Computer Engineering PG program. He informed that scheme and syllabus are approved in the Computer Engineering Board of Studies meeting. |
| | Dr. Y. S. Rao pointed out that for the course 'User Experience Design' how the examinations will be conducted. Dr. D. R. Kalbande and Dr. Sudhir Dhage explained about the way papers are set in this course. After a debate, finally it is decided to have laboratory course on 'User Experience Design'. |
| | All the members of the academic council approved the scheme and course contents for semesters I, II, III and IV from academic year 2017-18 for PG program in Computer Engineering. |

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| Item No 9 | Proposal for implementation of revised scheme and course contents for semesters I and II from academic year 2017-18 for M. Tech program in Electronics & Telecommunication. |
| | <p>Prof. D. D. Ambawade, Associate Professor in Electronics & Telecommunication Department presented scheme and syllabus for semesters I, II, III and IV for Electronics & Telecommunication Engineering PG program. He informed that scheme and syllabus are approved in the Electronics & Telecommunication Engineering Board of Studies meeting.</p> <p>All the members of the academic council approved the scheme and course contents for semesters III and IV from academic year 2017-18 for UG program in Electronics & Telecommunication Engineering.</p> |

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| Item No 10 | Proposal for implementation of revised scheme and course contents for semesters I, II, III and IV from academic year 2017-18 for M. Tech program in Master of Computer Applications. |
| | <p>Dr. Pooja Raundale, Head of Master of Computer Applications (MCA) Department presented scheme and syllabus for semesters I, II, III, IV, V and VI for MCA. She informed that scheme and syllabus are approved in the MCA Board of Studies meeting.</p> <p>She explained the philosophy behind the MCA courses and informed about various domains in which categorization of courses is done. Dr. Y. S. Rao pointed out that since most of the MCA students after studies immediately join industries hence industries should be contacted to for deciding contents in the courses and should be offered as per their requirement. Other members gave the solution to have proper tracks in electives in semester V and VI. Dr. Pooja Raundale informed that this care will be taken during framing of scheme and course contents of semester V and VI in future.</p> <p>All the members of the academic council approved the scheme and course contents for all semesters from academic year 2017-18 for MCA program.</p> |

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Following points are discussed about Make-up exam:

Dr. Prachi Gharpure suggested having makeup examination one week before start of next examination; however other members recommended continuing this year with the drafted academic calendar and thought can be given after one year.

Only students who have 'X' in a course due to attendance <75% but have attendance >50% should be allowed for make-up examination with grade penalty. Students having attendance <50% should not be allowed for ESE or make-up examination and their term is not granted. Criteria of 2 courses can be removed in this case. The grade obtained after applying penalty can be as follows:

| UG Program | | | |
|-------------------------------------|---------------------|--|--------------------|
| Percentage of Marks Obtained | Letter Grade | Numerical Equivalent Grade Points | Performance |
| 75.00 – Above | B | 8 | Very Good |
| 70.00 – Above | C | 7 | Good |
| 60.00 – 69.99 | D | 6 | Fair |
| 50.00 – 59.99 | E | 5 | Average |
| 45.00 – 49.99 | P | 4 | Pass |
| 40.00 – 44.99 | P | 4 | Pass |
| Less than 40.00 | F | 0 | Fail |

| PG Program | | | |
|-------------------------------------|---------------------|--|--------------------|
| Percentage of Marks Obtained | Letter Grade | Numerical Equivalent Grade Points | Performance |
| 75.00 – Above | B | 8 | Very Good |
| 70.00 – Above | C | 7 | Good |
| 60.00 – 69.99 | D | 6 | Fair |
| 55.00 – 59.99 | E | 5 | Average |
| 50.00 – 54.99 | P | 4 | Pass |
| 45.00 – 49.99 | P | 4 | Pass |
| Less than 45.00 | F | 0 | Fail |

If student fails in entire course i.e. (ISE+MSE+ESE) then ISE, MSE and ESE is null and void during makeup examination and there should be grade penalty.

If student fails only in 100 marks ESE then ISE and MSE marks to be carried forward and make-up exam will be with 60% weightage with grade penalty.

But if student get grade 'X' or 'AB' in ESE (due to absentee in ESE) then ISE and MSE to be carried forward and Make-Up Exam will be with 60% weightage with grade penalty.

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Item No 11 Proposal for implementation of revised assessment scheme for the course contents for all semesters for B.Tech., M.Tech and MCA Programs.

Member secretary proposed the assessment scheme for all the semesters. He said that curriculum for third and final year has been kept same as Mumbai University but assessment scheme is changed for academic years 2017-2018 batches for which all the members agreed.

Tutorial column for the course evaluation to be removed.

It has been informed that 'F' grade makes a different impression to outside universities. Hence grade for 'Absent' candidates during ESE should be 'AB' instead of 'F' and for defaulters should be 'X'.

Dr. Sohoni suggested that it is unfair for the student if term is not granted due to poor attendance in a course. He suggested that for tutorials, if attendance is <75% then give 'X' in the course

Separate 75% attendance in both theory and tutorial is must otherwise 'X' in course.

For lab, if attendance is <75% in laboratory then 'X' grade in laboratory.

Experts recommended making CGPI rule minimum 4 for UG and 4.5 for PG for promotion. In this case there is a year drop and student has to clear the backlogs. There was a discussion on whether promotion criteria should be CGPI based or credits based for example 75% credits are required to continue for next year. It is desirable to have promotion criteria a credit based and AC suggested finding the criteria in other autonomous institutes and then applying. Dr. Sohoni suggested mentioning 'studentship' rather than 'promotion'. He informed that loosing studentship means discontinuation of studies at institute. It is resolved to keep 'promotion' word as it is more applicable in our circumstances.

Dr. Jonathan Joshi said that is it possible not to hold Viva examinations. But Dr. Rathod informed that because of oral examinations student study seriously finer aspects of the course and it is helpful. Even though fear and unexpected things happen it was recommended to keep oral examination with one student at a time as exam pattern.

Experts suggested that students and faculty members should be given orientation about attendance and evaluation rules. It was also suggested to ensure that every student signs legal document about rules & an undertaking that he has read all the rules, understood, accept all the rules and will abide by the rules.

Dr. Sohoni suggested that rather than actual marks for laboratory courses for ISE and ESE, the total 2/3 (66%) and 1/3 (34%) should be mentioned.

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| Item No 12 | Proposal for approval of academic calendar for the academic year 2017-18 |
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It is resolved that academic calendar is approved for the year 2017-18.

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| Item No 13 | Any other matter with permission of chair. |
|-------------------|---|

Dr. S. S. Rathod with permission of chair put forward other issues which are resolved as follows.

It is recommended to write B.E./B.Tech. on all the academic documents for second year, third year and final year classes of 2017-18 undergraduate programs while for first year of 2017-18 can be written as B.Tech. Similarly on documents related to second year PG students, M.E./M.Tech. Should be written while for first year of 2017-18 can be M.Tech.

Member secretary informed that AICTE has issued circular regarding inclusion of 20% MOOC courses. It is unanimously resolved that MOOC course shall be considered in the final year and not second-third year.

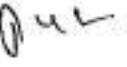
Dr. Satyanarayana gave concluding remarks that brilliant effort as lot of work done with innovations. He also cautioned that faculty workload should be taken care of due to increased number of activities as quality should not suffer. He said faculty should have enough time and rapport with students. Dr. Prachi Gharpure informed that we have started process of appointing adjunct faculty members to reduce burden on faculty.

Member secretary informed that all the items of agenda are discussed and meeting ended with vote of thanks.



Dr. S. S. Rathod

Dean (Academics) and Member Secretary,
Academic Council



Dr. Prachi Gharpure

Principal and Chairman,
Academic Council

Principal
Sardar Patel Institute of Technology
Bhavans Andheri Campus
Munshi Nagar, Andheri (West),
Mumbai - 400 058.



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Sardar Patel Institute of Technology
 Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
 (Autonomous Institute Affiliated to University of Mumbai)

Attendance of First Academic Council Meeting Held on 8th June 2017

| S.N. | Name | Designation | Signature |
|------|-----------------------------|------------------|---------------------------------------|
| 1 | Dr. Prachi Gharpure | Chairman | <i>Prachi</i> |
| 2 | Dr. Surendra Rathod | Member Secretary | <i>Rathod</i> |
| 3 | Dr. Milind Sohoni | Member | <i>Milind</i> |
| 4 | Dr. Zia Saquib | Member | <i>Zia Saquib</i> |
| 5 | Dr. Satyanarayanan Bhasatte | Member | <i>Bhasatte</i> |
| 6 | Dr. Jonathan Joshi | Member | <i>Jonathan Joshi</i> |
| 7 | Dr. Y. S. Rao | Member | <i>Y. S. Rao</i> |
| 8 | Dr. D. R. Kalbande | Member | <i>D. R. Kalbande</i> |
| 9 | Dr. Rita Das | Member | <i>Rita Das</i> |
| 10 | Dr. Radha ShankarmMani | Member | <i>Radha ShankarmMani</i> |
| 11 | Dr. Pooja Roundale | Member | <i>Pooja Roundale</i> |
| 12 | Prof. D. D. Ambawade | Member | <i>D. D. Ambawade</i> |
| 13 | Prof. Surekha Dholay | Member | <i>Surekha Dholay</i> |
| 14 | Prof. Kailash Devadkar | Member | <i>Kailash Devadkar</i> |
| 15 | Prof. Kiran Talele | Member | <i>Kiran Talele</i> ← ABSENT → |
| 16 | University of Mumbai | Nominee | — |
| 17 | Prof. D. M. Patil | Invitee | <i>Gadil</i> |
| 18 | Dr. Sudhir Dhage | Invitee | <i>Sudhir Dhage</i> |
| 19 | Dr. Rajendra Sutar | Invitee | <i>Rajendra Sutar</i> |

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Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
 (Autonomous Institute Affiliated to University of Mumbai)



Minutes of

Second Meeting of the

Academic Council

On

Saturday, January 20, 2018 at 10.00 AM

at

**Conference Room No. 105
 Sardar Patel Institute of Technology
 Andheri (West), Mumbai-58**

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**Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY**

Munshi nagar, Andheri(W), Mumbai – 400 058.
(Autonomous Institute Affiliated to University of Mumbai)

**Minutes and Action taken report for 2nd Academic Council Meeting
of S.P.I.T., Andheri (West), Mumbai.**

Meeting Date: Saturday, Jan 20, 2018

Time: 10.00 a.m.

Venue – Sardar Patel Institute of Technology

Following Members were present:

| Sr. No | Name |
|--------|---|
| 1 | Dr. Prachi Gharpure, Principal & Chairman |
| 2 | Dr. Zia Saquib, External Expert |
| 3 | Dr. Jonathan Joshi, External Expert |
| 4 | Dr. Y.S.Rao, Head Electronics & Telecommunication Engineering Department, Member |
| 5 | Dr. D.R.Kalbande, Head Computer Engineering Department, Member |
| 6 | Dr. Rita Das, Head Applied Sciences & Humanities Department, Member |
| 7 | Dr. Radha Shankar Mani, Head Information Technology Department, Member |
| 8 | Dr. Pooja Roundale, Head Master of Computer Applications, Member |
| 9 | Prof. D.D. Ambawade, Associate Professor, Electronics & Telecom. Engg. Dept, Member |
| 10 | Prof. Surekha Dholay , Associate Professor, Computer Engineering Department, Member |
| 11 | Prof. Kailash Devadkar, Associate Professor, Information Technology Department, Member |
| 12 | Prof. Kiran Talele, Associate Professor, Electronics Engineering Department, Member |
| 13 | Prof. D.M.Patil, Associate Professor, Applied Sciences & Humanities Department, Invitee |
| 14 | Dr. Sudhir Dhage, Professor, Computer Engineering Department , Invitee |
| 15 | Dr. Rajendra Sutar, Associate Professor, Electronics Engineering Department, Invitee |
| 16 | Prof. Hemant Vasaikar, Controller of Ecaminations, S.P.I.T., Invitee |
| 17 | Dr. Surendra Rathod, Dean(Academics) & Member Secretary |

Leave of absence was requested by

1. Dr. Milind Sohoni -External Expert
- 2 Dr. Satyanarayana Bhasatte -External Expert

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**Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY**

Munshi nagar, Andheri(W), Mumbai – 400 058.
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| Sr. No. | Agenda Item | Discussion/Remarks | Decision | Action Taken |
|---------|---|---|--|-----------------------------|
| 1. | Welcome to members of the Academic Council for Second Meeting. | Member secretary, Academic Council Dr. S. S. Rathod started meeting by welcoming members. He informed to all the members that Dr. Milind Sohoni could not come due to other commitment and Dr. Satyanarayana due to health reasons. However their suggestions will be taken via email. Member secretary also informed that S.P.I.T. regularly communicated to Mumbai university but names of nominees are not yet received. | -- | -- |
| 2. | To read and approve the minutes of the previous Academic Council Meeting | Member secretary read the minutes of previous academic council meeting held on 8 th June 2017. There is a typographical error in point no. 10 of previous MoM wherein M.Tech. word to be replaced by PG. | Minutes of Academic Council held on 8 th June 2017 are unanimously approved by all the members. | Minutes taken and ATR noted |
| 3. | Briefing to members about the implementation of academics in ODD semester 2017-18. | Dr. S. S. Rathod informed about feedback taken from students & teachers and the various academic activities carried out in the institute in ODD semester of 2017-18. He informed about the following aspects: i) FSAI activities carried out were explained ii) The details of SCOPE program were explained. Dr. Prachi Gharpure mentioned that even though many students | -- | -- |

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Bharatiya Vidya Bhavan's SARDAR PATEL INSTITUTE OF TECHNOLOGY

Munshi nagar, Andheri(W), Mumbai – 400 058.
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| | <p>enrolled in ODD semester but there seems to be drop in EVEN semester enrollments and we need to analyze the reasons for this drop.</p> <p>iii) Social responsibilities program was explained about which Dr. Prachi Gharpure suggested to team up S.P.I.T. with SP-TBI (Technology Business Incubation) for school program going on for underprivileged students. Dr. Kalbande suggested to have tie up with Muskan Foundation and with TISS for social activities.</p> <p>iv) Data related to CEP module was presented, to which Dr. Zia Saquib told that CEP module should be continued irrespective of less number of enrollments. Dr. Radha Shankarmani informed that computer and IT students primarily go for MS program after graduation and hence enrollment in these programs in CEP is less.</p> <p>v) Dr. Prachi Gharpure told that to keep track of these activities institute need one dedicated person and proper office so that during handover of Deans responsibilities in future smooth data transfer shall take place.</p> | | |
| 4. | <p>Proposal for amendments in the course structure and examination rules for the academic year 2018-19</p> | <p>Remarks are mentioned in Annexure-I</p> | <p>Annexure-I is approved.</p> <p>1. HHSA course is converted to credit course 2. Sports activities=2 credits for participation 3. Exemption in Open elective for any track of</p> |



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| | | | SCOPE course 4. Attendance rules are revised 5. 20:20:60 assessment scheme accepted with 60 marks ESE and Make-up paper 6. Credit-wise marks distribution and exam duration 7. Grace marks rule shall be put up in the examination committee 8. Policy for LD candidates shall be put up in exam committee 9. Make-up exam rules are revised as per 20:20:60 format 10. ISE and MSE carry forward in all cases 11. Re-exam for students failed in make-up examination in ODD semester to be taken in EVEN Sem 12. Paper setting rules are revised 13. Practical ESE is scheduled within academic time-table |
| 5. | Proposal for implementation of revised scheme and course contents for semesters III to VI from academic year 2018-19 for UG program in Electronics Engineering | <p>Dr. S. S. Rathod, Head of Electronics Engineering Department presented scheme and syllabus for semesters III and VI for Electronics Engineering UG program for academic year 2018-19. He informed that scheme and syllabus are approved in the Electronics Engineering Board of Studies meeting.</p> <p>Dr. Y. S. Rao suggested reducing the proposed marks of action research</p> | <p>Approved the scheme and course contents for semesters III and VI from academic year 2018-19 for UG program in Electronics Engineering with suggested corrections.</p> <p>1. Credits of action research projects are revised 2. Contents of IoT course are revised 3. Comprehensive viva is not included</p> |



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| | <p>project as per the credits of laboratory course. Hence it is unanimously decided that action research project shall carry 40 marks for ISE and 20 marks for ESE.</p> <p>Dr. Jonathan Joshi suggested if possible then make 'Consumer Electronics' course compulsory. He also suggested reframing the syllabus of IoT open elective course as per the number of lectures and course credit. He also suggested including patent drafting in final year project and each project report can contain patent draft.</p> <p>Dr. S. S. Rathod suggested rather than including viva in each and every course it is better to include comprehensive viva examination of one credit in semester VI. He has presented the learning outcomes and modality of conducting viva. However Dr. Prachi Gharpure and Dr. Y. S. Rao strongly rejected it. Dr. Radha Shankar Mani suggested that it can be introduced as additional credits. Dr. Jonathan Joshi posed a question that what is the motivation to students to earn extra credits. Dr. Rita das suggested that it can be included in post graduate program. Dr. Pooja Raundale said that it is great idea but there are</p> | |
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| | | problems related to logistics. Hence the idea of comprehensive viva examination is not accepted by the members. | | |
| 6 | Proposal for implementation of revised scheme and course contents for semesters III to VI from academic year 2018-19 for UG program in Electronics Engineering & Telecommunication | <p>Dr. Y. S. Rao, Head of Electronics & Telecommunication Engineering Department presented scheme and syllabus for semesters III and VI for Electronics & Telecommunication Engineering UG program for academic year 2018-19. He informed that scheme and syllabus are approved in the Electronics & Telecommunication Engineering Board of Studies meeting.</p> <p>It is recommended to have practical ESE for maximum two courses in a semester. It is recommended to have practical examination for HDL programming and Object oriented Programming. Dr. Rao mentioned that in EXTC scheme they have included product design instead of mini project. Dr. Jonathan Joshi suggested to include product documentation as per industry requirements as a part of product design. It is also suggested to include ARM CORTEX in embedded systems syllabus.</p> | <p>Approved the scheme and course contents for semesters III and VI from academic year 2018-19 for UG program in Electronics & Telecommunication Engineering with suggested corrections.</p> | <p>1. Practical ESE is included only for max two courses per semester</p> <p>2. ARM Cortex is included in embedded system course</p> |
| 7 | Proposal for implementation of revised scheme and course contents for semesters III to VI | Dr. D. R. Kalbande Head of Computer Engineering Department presented scheme and syllabus for semesters III to VI for | Approved the scheme and course contents for semesters III to VI for | <p>1. Evaluation scheme is changed to 20:20:60</p> <p>2. 'Technology Lab' is renamed as 'Enterprise</p> |



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| | from academic year 2018-19 for UG program in Computer Engineering. | <p>Computer Engineering PG program for academic year 2018-19. He informed that scheme and syllabus are approved in the Computer Engineering Board of Studies meeting.</p> <p>It is recommended to make mini-project exam as 40:20. Evaluation scheme should be changed to 20-20-60 pattern. It is recommended to focus more on RTOS in embedded systems course. Dr. Jonathan Joshi also told that embedded linux is in high demand in industry and can be included somewhere in ETRX and EXTC syllabus. In cloud computing concepts of commercial cloud need to be included like deployment etc.</p> <p>Dr. Zia Saquib suggested renaming of 'Technology Lab' as 'Enterprise Technology Lab'. Theoretical Computer Science is the common course with IT need to be marked by *.</p> <p>For conducting Computer Organization and Architecture laboratory it is recommended to use open source tools conduct experiments related to cache memory mapping etc.</p> | <p>and VI from academic year 2018-19 for UG program in Computer Engineering with suggested corrections.</p> | Technology Lab'. |
| 8 | Proposal for implementation of revised scheme and course contents for semesters III to VI from academic year | Dr. Radha Shankarmani, Head of Information Technology Department presented scheme and syllabus for semesters III and VI for Information | Approved the scheme and course contents for semesters III and VI from | <p>1. AI and machine learning will be included in future revisions in early semesters</p> <p>2. Course on Python</p> |



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| 2018-19 for UG program in Information Technology. | <p>Technology UG program for academic year 2018-19. She informed that scheme and syllabus are approved in the Information Technology Board of Studies meeting.</p> <p>Dr. Jonathan Joshi suggested that there is a lot of scope for Artificial Intelligence and it should be included early in the syllabus in SEM VI in both computer and information technology departments. Human computer interaction (Sem VII) can be interchanged with machine learning (Sem VI).</p> <p>Dr. Jonathan Joshi and Dr. Zia Saquib suggested including python programming early in engineering. Dr. Prachi Gharpure suggested including one credit lab course on Python Programming in Sem II in all branches.</p> <p>Dr. Radha Shankarmani presented revised scheme for second year for 2018-19 UG program in which she has suggested to drop 'Information Theory and Coding' course from sem III. The relevant topics of this course are included in other courses in further semesters. Remove * for practical courses for all branches.</p> | academic year 2018-19 for UG program in Information Technology with suggested corrections. | <p>programming will be included in next revision in SEM II</p> <p>3. ITC course from SEM III is removed.</p> <p>4. Removed * from all the practical courses in all branches</p> |
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| 9 | <p>Proposal for implementation of revised scheme and course contents for semesters I to VI from academic year 2018-19 for Master of Computer Applications.</p> | <p>Dr. Pooja Raundale, Head of Master of Computer Applications (MCA) Department presented scheme and syllabus for semesters I, II, III, IV, V and VI for MCA for academic year 2018-19. She informed that scheme and syllabus are approved in the MCA Board of Studies meeting.</p> <p>It is recommended to reframe IoT and data analytics courses. Include either MOOC course or dot net course in Sem V.</p> <p>It is recommended that students can take MOOC courses from Sem I to Sem V in any semester but the credits shall be considered in Sem V only.</p> <p>It is recommended to give credit to industry oriented documentation in the Sem VI internship report. Dr. Prachi Gharpure suggested that there is no need to publish the papers to MCA students. Dr. Prachi Gharpure also recommended exploring the possibilities to offer open electives launched by other departments as elective courses in MCA.</p> | <p>Approved the scheme and course contents for all semesters from academic year 2018-19 for MCA program with suggested corrections.</p> | <p>1. MOOC course credits are included in SEM V</p> |
| 10 | <p>Proposal for implementation of revised assessment scheme for the course contents for all semesters for M.Tech Programs.</p> | <p>Dr. Y. S. Rao, Dean Research and Development presented the PG rule book. Lengthy discussion regarding allotment of project and deadline for completion of project is carried out. At the end of the discussion it is decided that 'one guide</p> | <p>Approved the assessment scheme for course contents from academic year 2017-18 for M.Tech. program.</p> | <p>1. one guide one student policy</p> <p>2. 30th June will be deadline for submission of dissertation after which student will have to pay the entire fees and take readmission.</p> |



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| | | one student' policy will be adopted. Deadline for submission of dissertation shall be 30 th June. After deadline student will have to pay the entire fees and take admission. All members agreed for rest of the points mentioned in the rule book. | | |
| 11 | Any other matter with permission of chair. | <p>Dr. Rathod presented the revised syllabus for Yog Vidya and Music Appreciation courses for academic year 2017-18 onwards. He explained that the instructors of these courses recommended revising the syllabus. The contents of Vog Vidya should be as per learning outcomes emphasized on yoga and not stress management which were passed in previous AC. Similarly in music appreciation as per the learning outcomes course contents should be more towards sound-engineering and composition of song rather than classical music.</p> <p>Dr. Rita Das recommended including slow pace program for slow learners which is existing in many autonomous institutes. However many experts were of the opinion that in the existing system of S.P.I.T. it will be difficult to do at present. Since these programs are majorly offered in choice based credit systems, S.P.I.T. can consider it in future.</p> | <p>The suggested modification for Yog Vidya and Music Appreciation courses is approved unanimously for academic year 2017-18.</p> <p>Slow paced programs are not considered at present for implementation.</p> <p>Suggestion of Year drop students is accepted and approved unanimously by all the members.</p> | <p>1. Revised contents of Yog Vidya and Music Appreciation courses are adopted</p> <p>2. Year drop students will be allowed to seat in a class and complete all assessments</p> |



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| | Dr. Rita Das also suggested allowing year drop students to attend regular college and complete the course work (ISE+MSE+ESE) for the courses in which candidate is failed. For this institute can charge nominal fees. | | |
| | Member secretary informed that all the items of agenda are discussed and meeting ended with vote of thanks. | | |

Signature and Date

Dr. S. S. Rathod

Dean (Academics) and Member Secretary,
Academic Council

Signature and Date

Dr. Prachi Gharpure

Principal and Chairman,
Academic Council



Principal
Sardar Patel Institute of Technology
Bhavans Andheri Campus
Munshi Nagar, Andheri (West),
Mumbai - 400 058.



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Attendance of Second Academic Council Meeting Held on 20th Jan 2018

| S.N. | Name | Designation | Signature |
|------|-----------------------------|------------------|------------------|
| 1 | Dr. Prachi Gharpure | Chairman | |
| 2 | Dr. Surendra Rathod | Member Secretary | |
| 3 | Dr. Milind Sohoni | Member | ← ABSENT → |
| 4 | Dr. Zia Saquib | Member | |
| 5 | Dr. Satyanarayanan Bhasatte | Member | ← ABSENT → |
| 6 | Dr. Jonathan Joshi | Member | |
| 7 | Dr. Y. S. Rao | Member | |
| 8 | Dr. D. R. Kalbande | Member | Dr. Ambarish |
| 9 | Dr. Rita Das | Member | Rita Das |
| 10 | Dr. Radha ShankarmMani | Member | R. Mani |
| 11 | Dr. Pooja Roundale | Member | P. Roundale |
| 12 | Prof. D. D. Ambawade | Member | D. Ambawade |
| 13 | Prof. Surekha Dholay | Member | S. Dholay |
| 14 | Prof. Kailash Devadkar | Member | K. Devadkar |
| 15 | Prof. Kiran Talele | Member | K. Talele |
| 16 | University of Mumbai | Nominee | ← ABSENT → |
| 17 | Prof. D. M. Patil | Invitee | G. Patil |
| 18 | Dr. Sudhir Dhage | Invitee | S. Dhage |
| 19 | Dr. Rajendra Sutar | Invitee | R. Sutar |
| 20 | Prof. Hemant Vasaikar | Invitee | H. Vasaikar |

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BOS
MINUTES OF THE MEETING

B.Tech Computer Engineering Department

ACADEMIC YEAR

July 2023- June 2024

2022- 2023

R. Bhavans
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| Meeting Name: | BOS Meeting | | |
| Date of Meeting | 22/05/2023 | Time | 2 pm to 3 pm |
| Minutes Prepared By: | Prof. Swapnali Kothade & Prof. Reeta Koshy | Link/Email | 310-Hybrid Mode https://google.com/join 8-006-000 |

Meeting Agenda :

1. Scheme and Syllabus Discussion semester 6th to 8th of Computer Engineering Department

| Present Members: | Experts: |
|---|---|
| 1. Dr. Prasenjit Bhavatankar 2. Dr. Y. S. Rao 3. Dr. D. R. Kalbunde 4. Dr. S. N. Dhage 5. Dr. Pooja Raundale 6. Dr. Sujata Kulkarni 7. Dr. K. K. Devadkar 8. Dr. Rupali Sawant 9. Prof. Surekha Dholay 10. Prof. Swapnali Kothade 11. Prof. D. D. Ambawade 12. Prof. Reeta Koshy 13. Prof. Jignesh Sisodia 14. Prof. Kiran Gawande 15. Prof. Jyoti Ramteke 16. Prof. Pramod Bile 17. Prof. Ruchika Patil 18. Prof. Sunil Ghase | 1. Dr. Narendra Choudhary, IIT Indore 2. Dr. Padmaja Joshi, CDAC 3. Dr. Mahesh Shirode, V.J.T.I. Mumbai 4. Dr. Harron Chivu, K.J.S.I.T. Mumbai 5. Dr. Sandeep Ladha, V.J.T.I. Mumbai 6. Mr. Saty Nagpal, Marzian Stanley 7. Ms. Priyam Das, Postgraduate Alumni |

| Topics | Discussion |
|--------------|--|
| Introduction | <ul style="list-style-type: none"> • Prof. Natasha Rimal introduced the Panel members. • Dr. P.B. Bhavatankar welcomed Principal Dr. B. N. Chaudhary & Dean Academics Dr. Y. S. Rao. Previous BOS minutes of the meeting for 1st to 4th Semester were read out. Further the scheme and syllabus of 2021-22 B.Tech Computer Engineering was presented. • Dr. P.B. Bhavatankar started the meeting by giving brief information of the Computer Engineering programme which is of four years with curriculum of 180 credits. The mini project is introduced right from sem 4 and at the same time we have the industry internship as a part of |

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| | <p>the two semesters. Students learn from the MOOC like Swajam NPTEL, and the regular project allows students to explore all the aspects of the curriculum. A table having 160 credits was presented, the table has the distribution of the programme of basic science engineering science courses. Core courses, open elective project, and gangotri Electives.</p> <ul style="list-style-type: none"> Dr. P.B Bhavatankar instantly presented 3rd and 4th Semester Syllabus. No amendments in scheme and syllabus, except mini project 4th sem. Dr. Udmale inquired how students are getting prepared for competitive coding. Dr. P. B. Bhavatankar informed that college has NIOU with CodeChef and students are using it to enhance their skills. |
| 5 th Sem CS Scheme and Syllabus | <p>5th Sem CE Scheme and Syllabus was presented,</p> <ul style="list-style-type: none"> Theory of Computation, Artificial Intelligence and Machine Learning, Distributed Computing, Cloud and Internet Technologies Lab was presented, and suggestions were welcomed. The Panel accepted the Syllabus without any modifications. In Software Engineering course more emphasis on design patterns was suggested by Mr. Sunny Nagpal |
| 6 th Sem CS Scheme and Syllabus | <p>6th Sem CE Scheme and Syllabus was presented. Program Electives are starting from this semester. For category 2 students Research Internship is introduced and students go to IIT, Bombay, BARC, IIT Patna.</p> <ul style="list-style-type: none"> The System Programming and Compiler Construction course Syllabus was presented by Prof. Anand Gedbole and suggestions were welcomed. The Panel accepted the Syllabus without any modifications. The Soft Computing Course Syllabus was presented by Dr. D. R. Kalbande and suggestions were welcomed. Prof. Sandeep Udmale raised a query about the inclusion of addition of Multi objective Optimization in the syllabus. Also focus on integrating 3 component like a hybrid system case study Foundation of Data Science course syllabus was presented by Dr. P. B. Bhavatankar and suggestions were welcomed. The Panel accepted the Syllabus without any modifications. Machine Learning course syllabus was presented by Prof. Surekha Dholak and suggestions were welcomed from the panel. Suggestion given that Capstone project to be the part of ISI and list of experiment to be updated to 10. Dr. Udmale raised the query of repeated contents from the AIML subject. One book data mining and analysis, fundamental concepts and algorithms by J. Zaki and Wagner Meira can be included. Big Data Analytics and Visualization was presented by Prof. Pramod Bhide and suggestions were welcomed. The Panel accepted the Syllabus without any modifications. |

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| | <ul style="list-style-type: none"> The Information and System Security course syllabus was presented by Dr. P. B. Bhavatankar and suggestions were welcomed. The Panel accepted the Syllabus without any modifications. High Performance Computing course syllabus was presented by Dr. P. B. Bhavatankar and suggestions were welcomed. The Panel accepted the Syllabus without any modifications. |
| 7 th Sem CS Scheme and Syllabus | <p>7th Sem has courses as one Program Core, two Open Elective and two Program Elective and major project.</p> <ul style="list-style-type: none"> 7th Sem subject Cryptography and System Security course syllabus was accepted by the Panel without any modifications. A deep Learning course syllabus was presented by Prof Nikhat Mulls and suggestions were welcomed. The Syllabus was accepted by the Panel without any modifications. The Natural Language Processing course syllabus was presented by Prof Reena Koshy and suggestions were welcomed. The Syllabus was accepted by the Panel without any modifications. The Cloud Architecture course syllabus was presented by Dr. S. N. Dhage and suggestions were welcomed. The Syllabus was accepted by the Panel without any modifications. The AI for Industrial Application course syllabus was presented by Dr. D. R. Kalbande and suggestions were welcomed. Dr. Sandeep raised query of how evaluation will be done? Dr. D. R. Kalbande answered that framing of questions in the question paper will be based on theories covered in class. The Data Driven IOT course syllabus was presented by Prof D. D. Ambawade and suggestions were welcomed. The Syllabus was accepted by the Panel without any modifications. The Block Chain Technologies course syllabus was presented by Prof D. D. Ambawade and suggestions were welcomed. Dr. Narendra pointed out that Block Chain Technologies prerequisites are to be mentioned. Dr. Padmaja raised a concern of adding Decentralized network to be the part of Syllabus. Research opportunities in Block chain to be added in Syllabus. To which Prof. D. D. Ambawade indicated that he has already added it in self-study, also he has placed end to end application in lab experiment. Digital Forensics and Cyber Security course syllabus was presented by Prof D. D. Ambawade and suggestions were welcomed. The Syllabus was accepted by the Panel without any modifications. |
| 8 th Sem CS Scheme and Syllabus | <p>8th Sem has courses as one Open Elective and two Program Elective and major project.</p> <ul style="list-style-type: none"> The Human Machine Interaction course syllabus was presented by Dr. |

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D.R. Kulkarni and suggestions were welcomed. The Syllabus was accepted by the Panel without any modifications.

- The Computer Vision course syllabus was presented by Prof. Jignesh Sisodia and suggestions were welcomed. The Syllabus was accepted by the Panel without any modifications.
- The Robotics and Automation course syllabus was presented by Prof. Harshil Kanukia and suggestions were welcomed. The Syllabus was accepted by the Panel without any modifications.



D. R. Kulkarni

Secretary →



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MINUTES OF MEETING

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| Meeting Name | Board of Studies meeting for Scheme and Syllabus Discussion of B. Tech (IT), B.Tech(CE) and B.Tech(CSE). | | |
| Date of Meeting | 13/08/2021 | Time | 10.00AM |
| Minutes Prepared By | Prof. Jignesh Sisodia and Prof. Soni B. Bhambhani | Location | Online Google Meeting - meet.google.com/vve-vysh-aug |
| Meeting Agenda | | | |
| To discuss the program structure and curriculum of 1) B.Tech Computer Engineering (UG) 2) B.Tech Information Technology (UG) 3) B.Tech Computer Science and Engineering with Artificial Intelligence and Machine Learning Specialization (UG) 4) B.Tech Computer Science and Engineering with Data Science Specialization (UG) | | | |
| Present Members: | | | |
| 1. Dr. Supratim Biswas | 16. Dr. Prasenjit Bhattacharjee | 31. Prof. Jignesh Sisodia | 32. Prof. Jyoti Ramteke |
| 2. Dr. Padmaja Joshi | 17. Dr. Rajendra Sutar | 33. Prof. Niranjan Raut | 34. Prof. Reeta Koshy |
| 3. Dr. Leena Raghu | 18. Dr. Bhushan Jay Kothandane | 35. Prof. Sunil Ghate | 36. Prof. Soni Bhambhani |
| 4. Dr. M. Vijayalakshmi | 19. Dr. Sudhir Dholge | 37. Prof. Abhijeet Salunkhe | 38. Ms. Namrata Bhorade |
| 5. Mr. Tushar Bansal | 20. Dr. Poornima Ray | 39. Ms. Neekita Chitre | 40. Mr. Harsh Sandesara |
| 6. Mr. Sumit Sawla | 21. Dr. Preeti Vinayakaray | 41. Mr. Om Shah | 42. Mr. Meen Dave |
| 7. Dr. S. R. Devane | 22. Prof. Anand Godbole | 43. Mr. Sagar Bodiam | 44. Ms. Swathi Nair |
| 8. Dr. Lata Singh | 23. Prof. Surekha Dholby | | |
| 9. Dr. Subhash Shende | 24. Prof. Kiran Gewande | | |
| 10. Dr. Leena Raghu | 25. Prof. Kavita Devadkar | | |
| 11. Dr. Parikshit Mahalle | 26. Prof. Swapnil Kurhade | | |
| 12. Dr. R. R. Sedarkar | 27. Prof. Renuka Pawar | | |
| 13. Mr. Amit Parashar | 28. Prof. Ropali Sawant | | |
| 14. Mr. Siddhant Dalvi | 29. Prof. Shetal Choudhari | | |
| 15. Dr. Anant V. Nimbalkar | 30. Prof. Vaishali Hole | | |
| Discussion | | | |
| Following are the minutes of the Board of Studies meeting conducted for B. Tech (IT) and B.Tech (CE) Syllabus Revision w.e.f. 2020-21 and B. Tech (CSE) with AIML and Data Science Specialization Scheme w.e.f. 2021-22. | | | |
| Inauguration | | | |
| 1. Prof. Swapnil Kurhade introduced panel members for Computer and IT Board of Studies. | | | |
| UG Curriculum Scheme | | | |
| 1. Dr. Rajendra Sutar (Dean of Academics) presented the Scheme for UG Curriculum with Salient features of Syllabus Revision 2020. | | | |
| 2. He informed that UG program B.Tech (IT) is merged with B.Tech (CE) with a total intake of 120 from the academic year 2021-22. | | | |
| 3. He also announced that two new programs B.Tech CSE (AIML) and B.Tech CSE (Data Science) with intake of 60 each is starting from the academic year 2021-22. | | | |
| Dr. Supratim Biswas | | | |
| 1. Dr. Supratim Biswas appreciated the flexible and comprehensive Curriculum which is catered to various groups of students. | | | |
| 2. He suggested to monitor and take feedback of the proposed flexible and comprehensive curriculum at the end of every semester from students and can be shared in the BoS meeting. | | | |
| 3. Dr. Sutar replied of opting for online MOOC (NPTEL) courses and combining classrooms to assess. | | | |

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- the balance of the faculty load with the new scheme.
- Dr. Supratim Biswas asked to ensure the quality of MOOC courses to be opted by the students. Dr. Sutar informed that the available MOOC courses are reviewed at the beginning of every semester and information is disseminated to the students.
 - He raised the concern about execution of multiple PE courses in the proposed curriculum and suggested that the proper student-faculty ratio should be maintained.

Dr. Padmaja Joshi

- Dr. Padmaja Joshi appreciated the Curriculum Structure with salient features like Internship, Open Electives and Program Electives.
- Learning through Industry Projects should be equivalent and mapped to the theory courses.

Dr. M. Vijayalakshmi

- Dr. M. Vijayalakshmi agreed with the concerns raised by Dr. Supratim Biswas about quality checks for MOOC courses.

Dr. Parikshit Mahalle

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- Dr. Sutar informed about the availability of Internship manual along which covers guidelines for evaluation.

Dr. Lalit Singh

- Dr. Lalit Singh asked for the kind of support that the Institute is providing to students for Internship and research projects to which Dr. Sutar replied that the Institute has a dedicated TPO cell to assist students for Internship.
- He also asked about the evaluation criteria for Internship to which Dr. Sutar replied that students are evaluated by Industry and Institute mentors twice a semester.
- Dr. Lalit Singh suggested a portal to be available to external mentors for monthly progress report of the students. Dr. Kalbande informed about the procurement of ERP for the evaluation of Industry Internship.
- Dr. Lalit Singh also suggested that faculties to apply for fetching research grants that can be allocated as a research project for intense research internship (option B) in eighth semester.

Dr. Subhash Shinde

- Dr. Subhash Shinde asked about the Honors Program and mapping of stars to credits. Dr. Sutar explained awarding of stars at different level and minimum of 12 stars required to earn an Honors.
- He suggested Capstone projects to be added to award Honors.

B.Tech Computer - Sem V to VIII Scheme Presentation

- Dr. Anant V. Nirkar presented structure of B.Tech CE and II and informed the process of designing a detailed syllabus of the course.

B.Tech CSE(AIML) Scheme Presentation

- Dr. Anant V. Nirkar presented structure of B.Tech CSE (AIML) and informed the common scheme for B.Tech CSE (AIML and DS) upto Semester-IV.

Dr. M. Vijayalakshmi

- Dr. M. Vijayalakshmi suggested core courses in AIML and Data Science should be made compulsory for students going for Internship.
- Particularly, Fundamentals of Data Science should be a core subject for both category-1 and category-2 students.



3. Dr. Sutar informed that the Fundamentals of Data Science can be covered in MECR courses under Program/Open Elective.

Dr. Parikshit Mahalle

1. Dr. Parikshit Mahalle suggested to introduce a course on Data Visualization at earlier semester.

Dr. Lalit Singh

1. Dr. Lalit Singh suggested to add advanced mathematical/statistical courses which covers Linear Regression, Logistic Regression, Data Analytics, Hypothesis Testing, Reinforcement Learning and Data Visualization.
2. Dr. Anant Nimbkar informed that the Probability and Statistics course is in semester-III and covers all the mentioned topics.

B.Tech IT - Sem V to VIII Scheme Presentation

1. Dr. Prasenjit Bhavathankar presented the scheme and syllabus of B.Tech IT (Sem-V to Sem-VIII).

Dr. R. R. Sedamkar

1. Dr. R. R. Sedamkar enquired about the credits of individual courses and the proposed vertical structure.
2. He asked whether a student can switch from one track to another.
3. Dr. P. Bhavathankar informed that students have flexibility to switch from one track to another and can opt any course from the general track.
4. Dr. R. R. Sedamkar suggested to identify prerequisite core courses to be made compulsory.
5. Dr. P. Bhavathankar informed that semester-I to V covers the prerequisite courses required for Program Elective courses.

Mr. Sumeet Savla

1. Mr. Sumeet Savla commented that "Both CS and IT looks great and are very well balanced, do continue the industry internship and let us know practical experience after implementation of the entire system. Kudos to entire team".

Dr. M. Vijayalakshmi

1. Dr. M. Vijayalakshmi informed Statistics and Mathematics is required for major courses in the domain of AIML and Data Science.
2. Dr. P. Bhavathankar informed that the Probability and Statistics course is in semester-III and Mathematics courses in semester-I and II.

B.Tech CSE(DS) Scheme Presentation

1. Dr. Prasenjit Bhavathankar presented structure of B.Tech CSU (DS) and informed the common scheme for B.Tech CSE (DS) upto Semester-IV.

Dr. R. R. Sedamkar

1. Dr. R. R. Sedamkar suggested to create identity for emerging courses and to include fundamental courses like Big data Analytics, Fundamentals of Data Science, Probability and Statistics in third and fourth semester.
2. Dr. Anant Nimbkar informed that a survey of Curriculum for B.Tech CSU (AIML and DS) was conducted and it is observed that there are two approaches of Curriculum where the first approach covers the fundamentals of AIML and DS courses from semester-I and the second approach from semester-V. We adopted second approach and made semester-I to IV common for both B.Tech CSU and B.Tech CT.

S. Bhavathankar

HOD COMPUTER ENGG. DEPT.
Sardar Patel Institute of Technology
Munshi Nagar, Bhavaniwadi Campus,
Andheri (W), Mumbai - 400 058



Vote of Thanks

Vote of Thanks was given by Dr. Preetisha Jaisi


Dr. Anant V. Nirmalkar
HOD,
Computer Engineering Department


Dr. Pawanit Bhavathankar
HOD,
Information Technology Department



Bharatiya Vidya Bhawan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
 (Autonomous Institute Affiliated to University of Mumbai)
 Munshi Nagar, Andheri (W), Mumbai - 400 058.

MINUTES OF MEETING

| | | | |
|---------------------|--|----------|--|
| Meeting Name | Board of Studies meeting for Scheme and Syllabus Discussion of B. Tech (IT), B.Tech(CE) and B.Tech(CSE) | | |
| Date of Meeting | 13/08/2021 | Time | 10:00AM |
| Minutes Prepared By | Prof. Jignesh Sisodia and Prof. Soni B. Bhambar | Location | Online Google Meeting - meet.google.com/vve-vyxh-aog |

Meeting Agenda

- To discuss the program structure and curriculum of:
- 1) B.Tech Computer Engineering (UG)
- 2) B.Tech Information Technology (UG)
- 3) B.Tech Computer Science and Engineering with Artificial Intelligence and Machine Learning Specialization(UG)
- 4) B.Tech Computer Science and Engineering with Data Science Specialization(UG)

Present Members:

- | | | |
|---------------------------|--------------------------------|----------------------------|
| 1. Dr. Supratim Biswas | 16. Dr. Prasenjit Bhavathankar | 31. Prof. Jignesh Sisodia |
| 2. Dr. Padmaja Joshi | 17. Dr. Rajendra Sutar | 32. Prof. Jyoti Ramteke |
| 3. Dr. Leena Raghav | 18. Dr. Dhananjay Kalbande | 33. Prof. Nataasha Raul |
| 4. Dr. M. Vijayalakshmi | 19. Dr. Sudhir Dhage | 34. Prof. Reeta Koshy |
| 5. Mr. Tushar Bansal | 20. Dr. Pooja Raundale | 35. Prof. Sunil Ghane |
| 6. Mr. Sumeet Savla | 21. Dr. Preeti Vinayakray | 36. Prof. Soni Bhambar |
| 7. Dr. S. R. Devane | 22. Prof. Anand Godbole | 37. Prof. Abhijeet Salunke |
| 8. Dr. Lalit Singh | 23. Prof. Surekha Dholay | 38. Ms. Namrata Bhorade |
| 9. Dr. Subhash Shinde | 24. Prof. Kiran Gawande | 39. Ms. Nikita Chitre |
| 10. Dr. Leena Raghav | 25. Prof. Knilas Devadkar | 40. Mr. Harsh Sandesara |
| 11. Dr. Parikshit Mahalle | 26. Prof. Swapnil Kurhade | 41. Mr. Om Shah |
| 12. Dr. R. R. Sedarkar | 27. Prof. Remsika Pawar | 42. Mr. Meet Dave |
| 13. Mr. Amit Parashar | 28. Prof. Rupali Sawant | 43. Mr. Sagar Badlani |
| 14. Mr. Siddhant Dalvi | 29. Prof. Sheetal Chaudhari | 44. Ms. Swathy Nair |
| 15. Dr. Anant V. Nimkar | 30. Prof. Varsha Hole | |

Discussion

Following are the minutes of the Board of Studies meeting conducted for B. Tech (IT) and B.Tech (CE) syllabus Revision w.e.f. 2020-21 and B. Tech (CSE) with AIML and Data Science Specialization Scheme w.e.f. 2021-22.

Inauguration

1. Prof. Swapnil Kurhade introduced panel members for Computer and IT Board of Studies.

UG Curriculum Scheme

1. Dr. Rajendra Sutar (Dean of Academics) presented the Scheme for UG Curriculum with Salient features of Syllabus Revision 2020.
2. He informed that UG program B.Tech (IT) is merged with B.Tech (CE) with a total intake of 120 from the academic year 2021-22.
3. He also announced that two new programs B.Tech CSE (AIML) and B.Tech CSE (Data Science) with intake of 60 each is starting from the academic year 2021-22.

Dr. Supratim Biswas

1. Dr. Supratim Biswas appreciated the flexible and comprehensive Curriculum which is catered to various groups of students.
2. He suggested to monitor and take feedback of the proposed flexible and comprehensive curriculum at the end of every semester from students and can be shared in the BoS meeting.
3. Dr. Sutar replied of opting for online MOOC (NPTEL) courses and combining classrooms to assess



- the balance of the faculty load with the new scheme.
4. Dr. Supratim Biswas asked to ensure the quality of MOOC courses to be opted by the students. Dr. Sutar informed that the available MOOC courses are reviewed at the beginning of every semester and information is disseminated to the students.
5. He raised the concern about execution of multiple PE courses in the proposed curriculum and suggested that the proper student faculty ratio should be maintained.

Dr. Padmaja Joshi

1. Dr. Padmaja Joshi appreciated the Curriculum Structure with salient features like Internship, Open Electives and Program Electives.
2. Learning through Industry Projects should be equivalent and mapped to the theory courses.

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B.Tech Computer - Sem V to VIII Scheme Presentation

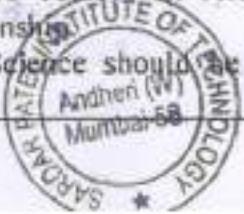
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Vote of Thanks

Vote of Thanks was given by Dr. Prachiya Desai



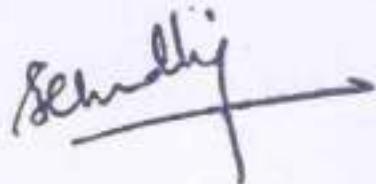
Dr. Prachiya Desai
MCA,
Computer Engineering Department



Dr. P. B. Bhavatthakar
MCA
Information Technology Department



P. B. Bhavatthakar



Bhuwantra-Vidyas Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai - 400 058.

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MINUTES OF MEETING

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|---------------------|--|----------|---|
| Meeting Name | Board of Studies meeting for Scheme and Syllabus Discussion of B.Tech (Computer), B.Tech (IT) and M.Tech (Computer) from Academic year 2020-21 | | |
| Date of Meeting | 29/07/2020 | Time | 10.00AM |
| Minutes Prepared By | Prof. Nikahni Mulla and Prof. Soni D. Bhambhani | Location | Online Google Meeting - https://meet.google.com/hch-spkf-lft |

Meeting Agenda:

- To discuss the program structure and curriculum of:
- Computer Engineering (U.G and PG)
 - Information Technology (U.G)

Present Members

- | | |
|--|--|
| 1. Dr. B. N. Chaudhari, Principal | 13. Dr. R. R. Sedamkar, Professor, TCEI, Mumbai |
| 2. Dr. Yerramreddy Srinivasa Rao, Vice Principal | 14. Dr. Dharmraj Kallande, Dean Industry Relation |
| 3. Dr. Rajendra Sutar, Dean Academics | 15. Dr. Radha Shankarnani, Dean Quality |
| 4. Dr. Supratim Biswas, Professor, IIT Bombay | 16. Dr. Anant V. Nimkar, HoD Computer |
| 5. Dr. R. K. Joshi, Professor, IIT Bombay | 17. Dr. Prasenjit Bhavatikar, HoD IT |
| 6. Dr. Palrnaja Joshi, Senior Director, CDAC, | 18. Mr. Foshar Bansal (Alumni IT) |
| 7. Dr. Lalit Singh, Scientist, BARC, Mumbai | 19. Mr. Sameer Savla (Alumni IT) |
| Mumbai | 20. Mr. Siddhant Dalvi (Alumni Computer) |
| 8. Dr. Leena Raghu, Professor, RAIT, Navi Mumbai | 21. Kothika Iyer (Student Representative, Computer) |
| (Mumbai University Representative) | 22. Shubham Salve (Student Representative, Computer) |
| 9. Dr. M. Vijayakumari, Professor, VESIT, Mumbai | 23. Tejas Chledia (Student Representative, Computer) |
| 10. Dr. S. R. Devane, Professor DMCOE, Navi | 24. Sarah Songe (Student Representative, IT) |
| Mumbai | |
| 11. Dr. Subhash Shinde, Professor, DMCOE, Navi | |
| Mumbai (Mumbai University Representative) | |
| 12. Dr. Parkash Mitali, Professor, SKNCOU, Pune | |

All senior faculty of Computer and IT department attended the BoS meeting.

Discussion

Following are the minutes of the Board of Studies meeting conducted for B.Tech (Computer), B.Tech (IT) and M.Tech (Computer) Syllabus Revision w.e.f. 2020-21.

Welcome and Introduction of BoS Committee Members

1. Prof. Swapnali Kurhade introduced Principal and panel members of IT and Computer Board of Studies.
2. Principal, Dr. B. N. Chaudhari shared a few words on the need to revisit the curriculum in the light of AICTE recommendations in his key-note address.
3. Dr. Rajendra Sutar (Dean of Academics) presented the proposed Scheme for U.G Curriculum and highlighted salient features of new curriculum.

Honours Program

1. Dr. Vijaya Lakshmi appreciated the method adopted by the Institute to offer IT Tech with Honors.
2. Dr. Biswas suggested expressed the need for sufficient engagement of teachers for preparing students for the GATE exam. He pointed out the importance of training the students on complex questions.
3. Dr. Lalit Singh emphasized on starting the research work in the third semester and continues working for three more semesters, in order to publish good research work in quality journals. He has also mentioned that the stars associated with research publication to be related to the quality of the paper published.
4. Dr. Supratim Biswas suggested that the papers be scrutinized by a faculty panel and accordingly award stars. He also added to start mini projects in second year to improve visibility and outreach of the Institute.
5. Dr. S. R. Devane also suggested students to start working towards research paper publication or on product development at an early stage. He added that entrepreneurship culture would develop by encouraging

students to develop products.

- Dr. Rushikesh Joshi suggested that some coursework could be included along with a high CPI, for offering Degree with Honours. Further, he suggested that CORE ranking, on Australian portal, is a good source for quality publications. In addition, he said if students are not opting for GATE but doing well otherwise, could be credited on equivalent basis.

B.Tech - IT and Computer Common - Scheme Presentation

- Dr. Prasenjit Bhavatankar presented the B.Tech UG Scheme and Syllabus for B.Tech common for both CE & IT from Semester I to V. He also presented BTech (IT) courses from Semester VI to VIII.
- Dr. R. R. Sedamkar suggested that the ITP model (Integrated Theory and Practical) of IIT Hyderabad to be referred for all programming courses.
- All experts emphasized on designing the programming courses with problem solving approach rather than teaching the programming language per se to implement the algorithms. A list of relevant problems to be listed down and discussed in theory classes.
- Dr. Supratim Biswas suggested that the Data Structures using Python Lab course to be revisited and Object oriented concepts to be included in the syllabus.
- Dr. Leena Ragha suggested that Linux Lab experiments can be added in Operating System instead of floating a special lab for the same.
- Many board members suggested that Probability and Statistics subject to be moved to Semester-III or Semester-IV.
- Dr. R. R. Sedamkar suggested the following structure for programming courses:
Sem 1: Problem-solving using Structured Programming
Sem 2: OOP
Sem 3: Data Structures
Sem 4: Analysis of Algorithms.
- Dr. R. R. Sedamkar also suggested to cross check 42 contact hours in the curriculum with 45 contact hours as per UGC norms for 3 credit courses.
- Dr. Rushikesh Joshi, Dr. Parikshit Mahalle and Dr. Supratim Biswas recommended that Theory of Computation should be a separate core subject and it should not be combined with compiler construction.
- Mr. Sumit Salva, Alumni of IT mentioned that the core fundamental courses are important for the students.
- Mr. Tushar Bansal appreciated the concepts of threads/vertical in domain electives.
- Principal, Dr. B. N. Chaudhari concluded that we will revisit the scheme as per suggestions of the Board members.

B.Tech Computer - Semester VI to VIII Scheme Presentation

- Dr. Anant Ninkar presented the B.Tech Computer Scheme from Semester VI to VIII.
- Dr. Lalit Singh and Dr. Rushikesh Joshi suggested that Software Engineering course is one of the important core subject. They suggested that the course System Analysis and Design may be replaced with Software Engineering.
- Dr. Leena Ragha suggested that Fundamental of Signal Processing can be an Elective course.

MTech Computer Scheme Presentation

- Dr. Anant Ninkar presented the M.Tech Computer Scheme and discussed the syllabus for Sem I to II.
- Dr. Lalit Singh commented that there is an overlap in the Course contents of Machine Learning, Soft Computing, and Neural Networks in Program Elective Track. Dr. D. R. Kalbande and Prof. Surekha Dhobay discussed that the course contents of these courses.

Finally, Dr. Radha Shunkarmuni concluded the meeting with vote of Thanks.


Dr. Anant V. Ninkar
HOD,
Computer Engineering Department


Dr. Prasenjit Bhavatankar
HOD,
Information Technology Department

CC - Dean Academics SPIT.





Sardar Patel Institute of Technology

Bhavans Campus, Munshi Nagar, Andheri (West), Mumbai - 400058, India
(Autonomous Institute Affiliated to University of Mumbai)



Board of Studies (BoS) of Department of Computer Engineering Year 2019-20

| Sl. No. | Designation | Name |
|------------|--|---|
| 1 | Chairman (Head of the Department) | Dr. Anant V. Nirkar |
| 2 | Faculty as per Specialization | Dr. D. R. Kambade Dr. Sudhir N. Ghage Dr. Preetiba Jain |
| 3 | Three subject experts from outside the parent university to be nominated by the Academic Council | Dr. Swapnil Bawas Dr. Parkash Manale |
| 4 | One expert nominated by the vice-chancellor | Dr. Susham Shinde |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Mr. Amit Parashar |
| 6 | One graduate meritorious alumnus | Mr. Siddhant Dahiya |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. S. R. Devane Dr. Lalit Kumar Singh Dr. R. H. Sedamkar |
| 8 | Other members of staff of the same faculty | Prof. Suresha Ghodake Prof. Anand Gondhale Prof. Kiran Gawande Prof. Jyoti Kamble Prof. Reeta Koshy Prof. Natasha Raul Prof. Sunil Dhure Prof. Pramod Bide Prof. Soni Bhandari Prof. Ashjeet Salunke |

Head
Department of Computer Engineering

Principal
Sardar Patel Institute of Technology



H.O.D. COMPUTER ENGG. DEPT.
Sardar Patel Institute of Technology
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Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai - 400058 - India
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| 1 | Chairman (Head of the Department) | Dr. Anant V. Römkar |
| 2 | Faculty as per Specialization | Dr. D R Kalbande Dr. Suchir N. Dhage Dr. Preetida Jani |
| 3 | Three subject experts from outside the parent university to be nominated by the Academic Council | Dr. Supratim Biswas Dr. Pankshit Mahale |
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Head
 Department of Computer Engineering

Principal
 Sardar Patel Institute of Technology



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MINUTES OF MEETING

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| Date of Meeting | 29/07/2020 | Time | 10.00AM |
| Minutes Prepared By | Prof. Nikahat Mulla and Prof. Soni B. Bhambar | Location | Online Google Meeting - https://meet.google.com/hcl-rqyk-fbt |

Meeting Agenda

To discuss the program structure and curriculum of:

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- Information Technology (UG).

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- | | |
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5. Dr. S. R. Devane also suggested students to start working towards research paper publication or on product development at an early stage. He added that entrepreneurship culture would develop by encouraging

students to develop products.

- Dr. Rushikesh Joshi suggested that some coursework could be included along with a high CPI, for offering Degree with Honours. Further, he suggested that CORE ranking, an Australian portal, is a good source for quality publications. In addition, he said if students are not opting for GATE but doing well otherwise, could be credited on equivalent basis.

B.Tech - IT and Computer Common - Scheme Presentation

- Dr. Prasenjit Bhavathankar presented the B.Tech UG Scheme and Syllabus for B.Tech (common for both CE & IT) from Semester I to V. He also presented BTech (IT) courses from Semester VI to VIII.
- Dr. R. R. Sedamkar suggested that the ITP model (Integrated Theory and Practical) of IIIT Hyderabad to be referred for all programming courses.
- All experts emphasized on designing the programming courses with problem solving approach rather than teaching the programming language per se to implement the algorithms. A list of relevant problems to be listed down and discussed in theory classes.
- Dr. Supratim Biswas suggested that the Data Structures using Python Lab course to be revisited and Object oriented concepts to be included in the syllabus.
- Dr. Leena Ragha suggested that Linux Lab experiments can be added in Operating System instead of floating a special lab for the same.
- Many board members suggested that Probability and Statistics subject to be moved to Semester-III or Semester-IV.
- Dr. R. R. Sedamkar suggested the following structure for programming courses:
Sem 1: Problem-solving using Structured Programming
Sem 2: OOP
Sem 3: Data Structures
Sem 4: Analysis of Algorithms
- Dr. R. R. Sedamkar also suggested to cross check 42 contact hours in the curriculum with 45 contact hours as per UGC norms for 3 credit courses.
- Dr. Rushikesh Joshi, Dr. Parikshit Mahalle and Dr. Supratim Biswas recommended that Theory of Computation should be a separate core subject and it should not be combined with compiler construction.
- Mr. Sumit Salva, Alumni of IT mentioned that the core fundamental courses are important for the students.
- Mr. Tushar Bansal appreciated the concepts of threads/vertical in domain electives.
- Principal, Dr. B. N. Chaudhari concluded that we will revisit the scheme as per suggestions of the board members.

B.Tech Computer – Semester VI to VIII Scheme Presentation

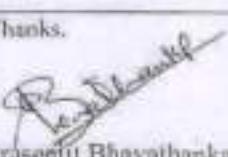
- Dr. Anant Nimkar presented the B.Tech Computer Scheme from Semester VI to VIII.
- Dr. Lalit Singh and Dr. Rushikesh Joshi suggested that Software Engineering course is one of the important core subject. They suggested that the course System Analysis and Design may be replaced with Software Engineering.
- Dr. Leena Ragha suggested that Fundamental of Signal Processing can be an Elective course.

MTech Computer Scheme Presentation

- Dr. Anant Nimkar presented the M.Tech Computer Scheme and discussed the syllabus for Sem I to II.
- Dr. Lalit Singh commented that there is an overlap in the Course contents of Machine Learning, Soft Computing, and Neural Networks in Program Elective Track. Dr. D. R. Kalbande and Prof. Surekha Dholay discussed that the course contents of these courses.

Finally, Dr. Radha Shankarmani concluded the meeting with vote of Thanks.


Dr. Anant V. Nimkar
HOD,
Computer Engineering Department


Dr. Prasenjit Bhavathankar
HOD,
Information Technology Department

CC - Dean Academics SPIT.



Sardar Patel Institute of Technology

Bhavans Campus, Mumbai Nagar, Andheri West, Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Board of Studies (BoS) of Department of Computer Engineering Year 2018-19

| Sr. No. | Designation | Name |
|------------|--|--|
| 1 | Chairman (Head of the Department) | Dr. D P Kalra |
| 2 | Faculty as per Specialization | Dr. Arant V. Narkar Dr. Sudhir N. Dhage |
| 3 | Two subject experts from outside the parent university to be nominated by the Academic Council | Dr. Satish Devale Dr. Amit Kumar Singh |
| 4 | One expert nominated by the vice-chancellor | |
| 5 | One representative from industry/comporate sector/allied area relating to placement | Mr. Jay B. U |
| 6 | One graduate meritorious alumnus | Ms. Akhi Mitala |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. R. Kasli |
| 8 | Other members of staff of the same faculty | Prof. Surekha Ghatey Prof. Anand Gadre Prof. Kiran Gawande Prof. Sanjiv Bhambhani Prof. Sunil Chane Prof. Pramod Rale |

Head
Department of Computer Engineering

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Andheri (W) Mumbai 400 058

Principal

Sardar Patel Institute of Technology





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(Autonomous Institute Affiliated to University of Mumbai)

Department of Computer Engineering
Board of Studies/ Department Advisory Board
Minutes of Meeting

22nd Oct. 2018

A meeting of BoS/DAB of Computer Engineering department was held on Monday, 22nd Oct. 2018 at 11.40 am in Room No. 604(JIC Cell).

The meeting was started with permission of Principal Dr. Prachi Gharpure.

1. Dr. Dhananjay Kalbande and Dr. Sudhir Dhage welcome all the faculty, Principal and BoS members and presented a detailed scheme for Sem VII and Sem VIII (Batch 2019-20) with the following categories in details:

Category '1': Student chooses for institute offered internship.

Category '2': Student opt out of Institute offered company internship.

2. Dr. Lalit Kumar Singh suggested that the students can also do the internship at IITs, NITs, BARC, TIFR, ISRO, DRDO.

3. Dr. Satish Devne suggested the change in name of subject from Fundamentals of Artificial Intelligence and Soft computing to Artificial Intelligence and Soft Computing(AISC). [Sem VII]

4. Dr. Prachi Gharpure explains the importance of Internship in curriculum and discuss the same with BoS members.

5. Dr. Lalit Kumar Singh asked about various activities which will be carried out under Technology Entrepreneurship Lab. Then Dr. Prachi Gharpure had explained the various activities planned to be carried out in this lab. Dr. D.R. Kalbande also explained the modules to be carried out like business modelling, patenting, idea generation etc.

6. A general discussion was held with all the members regarding the research projects in collaboration with reputed Govt. research Institute like BARC, TIFR, TISS, DAE, DRDO etc can be initiated to create the research environment in the Institute.

7. Dr. D.R. Kalbande presented the Internship Evaluation Rubrics and explain the credit evaluation using 10 different criteria for 10 credits.

Finally, the meeting ended at 2.00 pm with vote of thanks.

Head of the Department

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 Munshi Nagar, Andheri(West), Mumbai-400 058.
DEPARTMENT OF COMPUTER ENGINEERING

Department Advisory Board (DAB) Meeting on 22/10/2018 at 11.00 am

| Sl. No. | Name | Signature |
|---------|------------------------|-----------|
| 1. | Dr. S. R. Devane | |
| 2. | Dr. Lalit Kumar Singh | |
| 3. | Dr. Prachi Gharpure | |
| 4. | Dr. Sudhir Dhage | |
| 5. | Dr. Dhananjay Kalbande | |
| 6. | Dr. Arant Nunkar | |
| 7. | Dr. Sunil B Wankhade | |
| 8. | Snehal Dhokane | |
| 9. | Prafull Borkar | |
| 10. | Sunit Gehane | |
| 11. | Loni Phawade | |
| 12. | KIRAN GAWANDE | |
| 13. | Abha Mitalik | |
| 14. | Harsh Jain | |
| 15. | Gurpreet Kaur Saini | |
| 16. | Vishal Patil | |
| 17. | Rajesh Jagtap | |
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Munshi Nagar, Andheri(West), Mumbai-400 058.
DEPARTMENT OF COMPUTER ENGINEERING

Meeting of Board of Studies (BoS) of Computer Engineering Department on 22/10/2018
at 11.00 am

| Se. No. | Name | Signature |
|---------|-----------------------|-----------|
| 1. | Dr. S. R. Devane | |
| 2. | Dr. Lalit Kumar Singh | |
| 3. | Dr. Prachi Gharpure | |
| 4. | Dr. Snehil Thage | |
| 5. | Dr. Shanayog Kalbande | |
| 6. | Dr. Anant Nimbalkar | |
| 7. | Dr. Sunil S. Wanzlada | |
| 8. | Surekha Tholey. | |
| 9. | Premad Bide | |
| 10. | Sunit Gholam | |
| 11. | Laxmi Phankar | |
| 12. | KIRAN GAWANDE | |
| 13. | Abha Mitalik | |
| 14. | Harsh Jain | |
| 15. | Gurpreet Kaur Sohmy | |
| 16. | Vishal Patil | |
| 17. | Prf. Jageta Joshi | |
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022 24418514

Thanks

Shubhly





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(Autonomous Institute Affiliated to University of Mumbai)

Board of Studies (BoS) of Department of Computer Engineering Year 2017-18

| Sl. No. | Designation | Name |
|------------|--|--|
| 1 | Chairman (Head of the Department) | Dr. D. R. Kalbande |
| 2 | Faculty as per Specialization | Dr. Anant V. Nirkar Dr. Sudhir N. Dhage |
| 3 | Two subject experts from outside the parent university to be nominated by the Academic Council | Dr. Satish Devane Dr. Leel Kumar Singh |
| 4 | One expert nominated by the vice-chancellor | |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Mr. Jay B. B. |
| 6 | One graduate meritorious alumnus | Mr. Huzail Kothari |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. R. K. Joshi |
| 8 | Other members of staff of the same faculty | Prof. Surekha Chelzy Prof. Anand Godbole Prof. Giran Gawande Prof. Soni Bhamber Prof. Sunil Ghane Prof. Pramod Bide |

Head
Department of Computer Engineering

Principal
Sardar Patel Institute of Technology

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Andheri (W), Mumbai 400 058.





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Department of Computer Engineering

Board of Studies/ Department Advisory Board

Minutes of Meeting

The 2nd meeting of BoS in autonomy was held on Thursday, 14th December, 2017 at 10.00 am in Room No. 603. The meeting was started with permission of Principal Dr. Prachi Madam.

1. Dr. Prachi Madam suggested that common subjects in Computer and IT should have common syllabus, common paper, common lesson plan and common laboratory work. Both the branch subject concerned faculty should sit together & plan by discussing with domain experts. As in current semester this was not discussed and implemented. So this should not repeat again.
2. Dr. Anant Nimkar suggested the new concept of grand viva. This suggestion was appreciated by everyone. Finally it was decided department should think of grand viva concept for presenting it in front of academic council.
3. System Analysis and Design (SAD) and Human Machine Interaction (HMI). After much discussion by experts, it was decided that System Analysis and Design should be a core subject but syllabus needs to be revised as per the reviews given by expert Dr. Lalit Singh. He said that the syllabus should cover recent system analysis and design standards to make the students more aware about the latest ongoing trends.

His suggestion was HMI can't be a core subject. You can start with the lab course. Finally Dr. Prachi madam recommended HMI can be a partial part of Technology Lab-I, in which 8 hrs. Laboratory should be utilized by conducting workshops. It should be designed to give the exposure of recent user interface design standards and rest will be latest technology tools and techniques. Dr. D.R. Kalbande also explains the significance of the HMI subject. It is then suggested that HMI will be an elective in sem 7/ sem 8 in a particular track.



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4. Total Workload of Sem-VI including open elective comes to 33 hours/week. Dr. Prachi Madam suggested that it is a huge burden on the students. So finally decided Technology Lab-II has to be removed from sem-VI.
5. Dr. S. S. Rathod suggested contents of Microprocessor are very old. After discussion, it was decided that the contents need to be revised and inclined more towards Embedded systems and Real Time OS related topics to be added and Title of the subject should be Microprocessor and Embedded Systems.
6. It was decided ORAL Examination are not allowed for any subject. Practical can be there as per the justification given by faculty. No need of conducting MSEs and ESEs for Laboratory.
7. DSP and IP: After much discussion it was decided DSP and IP are two different subjects. DSP should be compulsory subject and IP can be elective.
8. Core and Electives in Sem 7 and Sem 8: After lot of discussion it was decided that there can be one core subject in each sem 7 and sem 8 and rest two different vertical tracks of Electives but if department has expert faculty and sufficient resources then there can be all the three Electives for Sem 7 and Sem 8 respectively.
9. Minor Project: Dr. S.S. Rathod suggested that in Minor Project-I, students has to do the field work and find the real time problems, and then formulate the problem. In Minor Project-II students should implement the solution to the problems stated in Minor project-I by using engineering/technology.

Finally, the meeting ended at 1.15pm with vote of thanks.

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FEEDBACK FOR COURSE STRUCTURE (COMPS)

- Wooden and metal workshops should be removed, or atleast non-credited. Workshops should be more oriented towards relevant areas, like circuitry or assembling of computers(Motherboard,PSU, RAM), etc.
- Human Machine Interaction(HMI): HMI should not be a course on its own. Instead integrate it with other design subjects, such as web technologies, or android programming. It should be taught in the second year so that students have prior knowledge of designing concepts before they start developing. Modules of HMI relevant to web design should be integrated in web technologies, and so on.
- COA and OS labs should not have overlapping experiments, like paging, FCFS etc.
- OOPM labs and mini-project should integrate coupling and cohesion concepts from the beginning.
- Microprocessor should just be introductory and then moved on to embedded systems
- For minor project, encourage students to target some original research or real world problem, and if it shows potential, it should be allowed to be extended to final year project.
- Eliminate concept of tracks for electives in final year. There should be complete flexibility for students to explore subjects. If a student takes up image processing in sem 7 and wants to change his track later, he should be able to do so.
- Eliminate concept of keeping 20 students in each elective, students should be allowed to study the subject they want, even if more than 20 students want to study that subject
- Grand viva concept should be eliminated; vivas are a good form of revision for students before end semester exams.
- Vivav should be mandatory for conceptual subjects, since students need to study for vivas conceptually. Face to face interaction also prepares them for interviews later on. Only preparing for written exams will cause problems in placement interviews.

HOD COMPUTER ENGG. DEPT.

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Andheri (W) Mumbai 400 058



R. Rayalha

FEEDBACK FOR COURSE STRUCTURE (COMPS)

- Wooden and metal workshops should be removed, or atleast non-credited. Workshops should be more oriented towards relevant areas, like circuitry or assembling of computers(Motherboard, PSU, RAM), etc.
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- Vivas should be mandatory for conceptual subjects, since students need to study for vivas conceptually. Face to face interaction also prepares them for interviews later on. Only preparing for written exams will cause problems in placement interviews

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Andheri (W), Mumbai 400 058



Sekhariaj



Bajarkar



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Munshi Nagar, Andheri(West), Mumbai-400 058.

DEPARTMENT OF COMPUTER ENGINEERING

Meeting of Board of Studies (BoS) of Computer Engineering Department on
14/12/2017 at 10.00 am

| Sr. No. | Name | Signature |
|---------|----------------------------|------------------------------------|
| 1. | Dr. S.R. Devane | |
| 2. | Dr. Lalit Kumar Singh | |
| 3. | Dr. Rushikesh K. Joshi | |
| 4. | Shri. Jay B.B. | |
| 5. | Dr. Sudhir N. Dhage | |
| 6. | Dr. D.R. Kalbande | |
| 7. | Dr. Anant V. Nimkar | |
| 8. | Mrs. Surekha Dholay | Surekha Dholay |
| 9. | Mr. Anand Godbole | Anand Godbole |
| 10. | Dr. Prachi Gharapure | Dr. Prachi Gharapure 14/12/2017 |
| 11. | Dr. S.S. Rathod | |
| 12. | Ms. Bibita B. Kudre | |
| 13. | Mr. Deepshree Vibhandik | |
| 14. | KIRAN GAWANDIE | |
| 15. | sunit Ghone | |
| 16. | Yogesh Jadhav | |
| 17. | Ramod B. (Vishal Patil) | |
| 18. | | |
| 19. | Abhijeet V. Salunkhe | |
| 20. | Jyoti Ramteke Bhakare | |

H O D COMPUTER ENGG

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Munshi Nagar Bhuvans Campus,
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SARDAR PATEL INSTITUTE OF TECHNOLOGY
Munshi Nagar, Andheri(West), Mumbai-400 058.

DEPARTMENT OF COMPUTER ENGINEERING

Department Advisory Board (DAB) Meeting on 14/12/2017 at 11.00 am

| Sr. No. | Name | Signature |
|---------|------------------------|-----------|
| 1. | Dr. S.R. Devase | |
| 2. | Dr. Lalit Kumar Singh | |
| 3. | Dr. Rushikesh K. Joshi | |
| 4. | Shri. Jay B.B. | |
| 5. | Dr. Sudhir N. Dhage | |
| 6. | Dr. D.R. Kalbande | |
| 7. | Dr. Anant V. Nimkar | |
| 8. | Mrs. Surekha Dholay | |
| 9. | Mr. Anand Godbole | |
| | Dr. Prachi Gharpure | |
| | Dr. S. S. Rathod | |
| | Tuzer Golwala | |
| | Tejal Grundecha | |
| | Huzefa kothari | |
| | | |

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 Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
 (Autonomous Institute Affiliated to University of Mumbai)
Board of Studies (BoS) of Department of Electronics and
Telecommunication Engineering

Year 2023-24

| Sr. No. | Designation | Name |
|---------|---|--|
| 1 | Chairman (Head of the Department) | Dr. Reena S. Sonkusare (Asso. Prof.) |
| 2 | Faculty as per Specialization | Dr. Y. S. Rao (Professor) Dr. Sukanya Kulkarni (Asso. Prof.) Dr. Sujata Kulkarni (Asso. Prof.) Prof. D. D. Ambawade (Asso. Prof.) Dr. Rajendra G. Sutar (Asso. Prof.) Dr. Deepak C. Karia (Asso. Prof.) Prof. K. T. Tafelé (Asso. Prof.) Prof. Narendra A. Bhagat (Asso. Prof.) |
| 3 | Two subject experts from outside the Parent University to be nominated by the Academic Council. | Dr. Prasanna Chaperkar (IIT Bombay) Dr. Kumar Appaiyah (IIT Bombay) |
| 4 | One expert nominated by the vice-chancellor | Dr. Nirmal Jagannath (KJSCE) |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Mr. Ranjeeth C.V. |
| 6 | One graduate meritorious alumnus | Mr. Sagar Sawant |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. S. S. Mande (DBIT Kurla) Dr. Ashwin G. Kotdari (VNIT) Dr. A. S. Gandhi (VNIT) |
| 8 | Other members of staff of the same faculty | Prof. Manish Parmar (Asso. Prof.) Prof. A D Mane (Asst. Prof.) Dr. Amol Deshpande (Asst. Prof.) Prof. Milind Paraye (Asst. Prof.) Prof. Pallavi Malame (Asst. Prof.) Prof. Sheha Weakey (Asst. Prof.) Prof. Prashant Kasambe (Asst. Prof.) Prof. Govind T. Haldankar (Asst. Prof.) Prof. Payal Shah (Asst. Prof.) Prof. Manisha Bansode (Asst. Prof.) Prof. Priya Deshpande (Asst. Prof.) Prof. Najib Ghattat (Asst. Prof.) |
| 9 | Current BE Students | Yug Harlaika Kunal Thakur Shruti Mukherjee Namita kadam |

Head
 Department of Electronics and Telecommunication
 Engineering

S. Patel
 Principal
 Sardar Patel Institute of Technology



Reena Kumbhare <reena_kumbhare@spit.ac.in>

Fwd: Request for guidelines to update syllabus

Prashant Kasambe <prashant_kasambe@spit.ac.in>
 To: Reena Kumbhare <reena_kumbhare@spit.ac.in>

Wed, Jul 19, 2023 at 2:37 PM

Dear Madam

1. PFA for syllabus of a subject in VLSI and Embedded Systems Programme Elective Track.
2. Please read the trailing mail for Industry Expert suggestions.
3. The name of the subject suggested by the expert is "Semiconductor Technologies"
4. I will send the syllabus to the expert again for any minor revisions.

----- Forwarded message -----

From: Ashwini Gajarushi <as.gajarushi@gmail.com>
 Date: Mon, Jul 17, 2023 at 7:52 PM
 Subject: Re: Request for guidelines to update syllabus
 To: Prashant Kasambe <prashant_kasambe@spit.ac.in>

Dear Sir,

Glad to interest taken by SPIT in floating the subject that introduces semiconductor fabrication technologies required for IC and MEMS fabrication. This subject is very important considering the establishment of Semiconductor fab labs in India. It is expected to provide huge, highly-paid job opportunities in the field of semiconductor fabrication in India. This subject is definitely a first step to making the manpower ready for utilizing the opportunity for the boom in the Semiconductor Industry. Recently, United Kingdom-based SRAM & MRAM Group vice-chairman Gurudeep Kumar Swami announced that the group will invest Rs 2 lakh crore in Odisha to set up a semiconductor unit in the state. A direct investment commitment of Rs 8,200 crore has been received which is likely to create over 40,000 jobs.

https://economictimes.indiatimes.com/industry/cons-products/electronics/sram-mram-to-invest-rs-2-lakh-crore-in-odisha-set-up-semiconductor-unit/articleshow/95964531.cms?utm_source=contentofinterest&utm_medium=text&utm_campaign=cpst

Generation 6 AMOLED Display FAB will be set up in Hyderabad, for manufacturing next-generation displays for tablet computers, smartphones, and laptops through an investment of Rs 24,000 crore. This will generate direct job opportunities to more than 3,000 people including scientists and advanced technology professionals.

<https://www.deccanchronicle.com/nation/in-other-news/130622/telangana-to-have-nidas-first-display-fabrication-company.html>

There are many such opportunities.

Here are few links that highlight the importance/ job opportunities in the field of Semiconductor technology.

1. By "Prof. Ramgopal Rao, (Ex-Director), IIT-Delhi", Voices : Engg. not just about computer science and IT, Can we stop this mad rush? - <https://timesofindia.indiatimes.com/blog/voices/engg-not-just-about-computer-science-and-it-can-we-stop-this-mad-rush/>
2. <https://www.india-briefing.com/news/setting-up-a-semiconductor-fabrication-plant-in-india-what-foreign-investors-should-know-22009.html>
3. https://economictimes.indiatimes.com/industry/cons-products/electronics/sram-mram-to-invest-rs-2-lakh-crore-in-odisha-set-up-semiconductor-unit/articleshow/95964531.cms?utm_source=contentofinterest&utm_medium=text&utm_campaign=cpst
4. https://www.linkedin.com/posts/naveed-sherwani-2a789_ranjay-mehta-makes-a-wise-move-to-take-activity-7076073173891563521-Y-uU?utm_source=share&utm_medium=member_android
5. https://www.linkedin.com/posts/robertquinn2020_semiconductorindustry-manufacturing-computerchips-activity-7080986712642721792-IEQ?utm_source=share&utm_medium=member_android

You may name the subject as Semiconductor Technologies and include one small chapter based on Fabrication aspects for other applications like display fab, flexible electronics, automotive, and memories. One chapter should focus on the fabrication of the devices which are intended to be made in Fab labs in India.

The syllabus flow can be:

1. Chapter 1 as it is
2. Chapter 2: Start with: Cleaning of a silicon wafer (RCA, Piranha etc), remaining chapter as it is
3. Chapter 3: As it is
4. Chapters 4 and 5: Club to MEMS and Sensor fabrication: Only 2-3 MEMS structures can be covered as Cantilevers, Microheaters, Accelerometers, Pressure Sensors and a few materials such as Si, SiO₂, SiN, SU8, PMMA. Cover fabrication, testing and characterization steps for one or two (only the cantilever should be enough).
5. Chapter 6: Fabrication of memory and display: Memory: SRAM, DRAM, MRAM, Flash: Principle of working, the structure of all these memory and fabrication steps of one/two memory, Display: AMOLED/OLED - Principle of working, structure, fabrication steps

Also, a visit to the IITBNF fab lab has to be a compulsory assignment along with making a report on the visit.
 We can discuss this in detail in person or in the meeting.

My best wishes to launch this course. This will definitely open a new career frontier to SPIT students.

Thanks and Regards,

Ashwini

On Wed, 12 Jul, 2023, 8:48 pm Prashant Kasambe, <prashant_kasambe@spit.ac.in>, wrote:

Dear Madam

22

I request your guidance for revising the syllabus of "IC and MEMS Technology" subject. This subject will be offered as a programme elective subject in the track of "VLSI and Embedded Systems" Sem VII, Electronics and Telecommunication Engineering students.

The existing syllabus is framed to include the flavor of both IC and MEMS devices in the perspective of applications, fabrication, packaging and testing while covering the basics of these devices either in this subject OR as a prerequisite subject in earlier semesters.

Over the period of time the list of the Laboratory exercises are extended.

Please find the syllabus copy as well as the Laboratory Exercise an attachment.
Please suggest any changes to include any recent trends in both the technology. I am also thinking of visiting a nanofabrication laboratory as a part of Laboratory exercise for this subject, if I get a permission to do so from CEN, IIT Bombay.

Thanks & Regards

Prashanti V. Kasambe
Asst. Prof., Department NBA Coordinator
Electronics Engineering Department
Bhartiya Vidya Bhawan's
Sardar Patel Institute of Technology
Andheri (W)
Mumbai-400058
Contact: 9867776871 (M)

Vision of the Department:

"To create professionally competent engineers, researchers and entrepreneurs in the field of Electronics Engineering for the benefit of society"



Mission of the Department:

- To impart quality engineering education as per the industry need.
- To motivate students to undertake research on next generation technologies.
- To create an environment that shall foster growth of professionals capable of effectively using the scientific and technical knowledge for the betterment of mankind.

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Sardar Patel Institute of Technology

Bhayani's Campus, Munshi Nagar, Andheri (West), Mumbai - 400058 - India
(Autonomous Institute Affiliated to University of Mumbai)

Board of Studies (BoS) of Department of Electronics and Telecommunication Engineering

Year 2022-23

| Sr. No. | Designation | Name |
|---------|---|---|
| 1 | Chairman (Head of the Department) | Dr. Reena S. Sonkusare (Asso. Prof.) |
| 2 | Faculty as per Specialization | Dr. Y. S. Rao (Professor) Dr. Sukanya Kulkarni (Asso. Prof.) Dr. Sujata Kulkarni (Asso. Prof.) Prof. D. D. Ambawade (Asso. Prof.) Dr. Rajendra G. Sutar (Asso. Prof.) Dr. Deepak C. Karia (Asso. Prof.) Prof. K. T. Talele (Asso. Prof.) Prof. Narendra A. Bhagat (Asso. Prof.) |
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| 9 | Current BE Students | Chavan Anuj Prafulla Patni Khushi Navin |

Head

Department of Electronics and Telecommunication
Engineering

Principal

Sardar Patel Institute of Technology



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
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| Meeting Name: | Board of Studies/ DAB Meeting | | |
|--|---|-------|---------------------|
| Date of Meeting: | 19/05/23 | Time: | 11:00 am to 1:00 pm |
| Place: | Offline (in room number 310) + Online https://meet.google.com/zea-qxxy-mve?hs=122&authuser=0 | | |
| Attendees: | As per table given | | |
| Minutes Prepared by: | Sneha Weakey | | |
| A meeting of Department Advisory Board and Board of Studies (Electronics and Telecommunication Engineering) was held on 19 th May 2023 in hybrid mode (offline in Room No. 310 and Online : https://meet.google.com/zea-qxxy-mve?hs=122&authuser=0) at Sardar Patel Institute of Technology, Andheri West Mumbai. Minutes of meeting are as follows | | | |
| Meeting Agenda | Discussion | | |
| | Dr. Reena Sonkusare welcomed all the BOS members and faculty members of Electronics and Telecommunication Engineering. She informed about the agenda of the meeting. | | |
| MoM and action taken for meeting 11-8-21 | Dr. Reena Sonkusare informed the board members about the action taken for the BOS meeting dated 11/8/2021. | | |
| Vision, Mission, PSO, Present EXTC Scheme | Dr. Reena Sonkusare started with current Vision, Mission, and Program Specific outcomes. She informed the board members about current curriculum roadmap of EXTC scheme, syllabus, course credits distribution, balanced load distribution and academic diversity. | | |
| To discuss the Program specific outcomes (PSO) | Dr. Reena Sonkusare explained about the feedback received from external auditors about the PSO and the need to revisit according to current curriculum roadmap. She presented the proposed PSO. Dr. Abhay Gandhi suggested that PSO1 and PSO2 seems similar, and the wordings could be changed. Dr Sudhakar Mande suggested that "Open source" can be included in PSO2. Dr. Abhay Gandhi was interested to know which open-source tools are being used and further suggested using "modern software tools" in PSO2. Dr. B. N. Chaudhari suggested to include "electronic circuit and system" instead of "Prototype" in PSO2. | | |
| To propose a 3 credit one Program core course in Sem VII | Dr. Reena Sonkusare informed all the Board members about a 3 credit one Program core course of Mobile and Wireless Communication to be introduced in Sem VII, to have 160-Credit Liberal Engineering Education Model. Course contents, TE and BE schemes was approved unanimously by all the board members. Dr. B. N. Chaudhari suggested to rename "Power Electronics" course in sixth semester as "Fundamentals of Power Electronics". He suggested to revisit the Program Elective vertical of Power Electronics & Energy Systems. He also suggested to include "Wavelets" or "Random signal Processing" courses in Signal Processing thread. Dr Sudhakar Mande suggested IC & MEMS technology course should be included in VLSI & Embedded track. He suggested introducing a Real Time Embedded system course and rename "Analog CMOS VLSI Design" as "Mixed CMOS VLSI Design". | | |



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| | |
|--|--|
| | <p>Dr. Y. S. Rao suggested to visit all the Program Electives along with Domain experts.</p> |
| To discuss the minor changes in the syllabus of Internet of Things Laboratory, Analog and Digital Communication, Information theory and Coding and Space Communication technologies. | <p>Dr. Reena Sonkusare presented the syllabus for the following theory and lab courses:</p> <ul style="list-style-type: none">• Internet of Things Laboratory (Sem V)• Analog and Digital Communication (Sem V)• Information Theory and Coding (Sem VI)• Space Communication and Technologies (Sem VII) <p>Course content and scheme was approved unanimously and will be implemented from 2023-24 onwards.</p> |
| | <p>Dr. Reena Sonkusare continued with the highlights of department's achievements. Student representative appreciated the minor changes made in the scheme and syllabus.</p> |

Dr. Reena Sonkusare

HOD EXTC

Dr. Y. S. Rao

Dean Academics

Dr. B. N. Chaudhari

Principal



Sardar Patel Institute of Technology
Andheri (W) Mumbai-58



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The Board of Studies (BOS/DAB) Meeting

Minutes of the Meeting dated 19th May 2023

Attending Members:

| Sr. No. | Faculty Name | Abbreviation | Attendance |
|---------|---------------------------|--------------|------------|
| 1 | Dr. Kumar Appalaiah, IITB | KA | Present |
| 2 | Dr. P. Chaporkar, IITB | PC | Absent |
| 3 | Dr. A. G. Kothari, VNIT | AK | Absent |
| 4 | Dr. Abhay Gandhi, VNIT | ASG | Present |
| 5 | Dr Sudhakar Mande | SM | Present |
| 6 | Anuj Chavan | AC | Present |
| 7 | Khushali Patni | KP | Absent |
| 8 | Dr. B. N. Chaudhari | BNC | Present |
| 9 | Dr. Y.S. Rao | YSR | Present |
| 10 | Dr. R.R. Sawant | RRS | Present |
| 11 | D.D. Ambawade | DDA | Absent |
| 12 | Dr. Reena Sonkusare | RS | Present |
| 13 | Dr. Sukanya Kulkarni | SK | Present |
| 14 | Manish Parmar | MMP | Present |
| 15 | Dr. Sujata Kulkarni | SSK | Present |
| 16 | Dr. Anand Mane | ADM | Present |
| 17 | Vijaya Kamble | VNK | On leave |
| 18 | Milind Paraye | MP | Absent |
| 19 | Dr. Arnol Deshpande | AD | Present |
| 20 | Pallavi Malame | PM | Present |
| 21 | Sneha Weakey | SW | Present |
| 22 | Prof. Kiran Talele | KTT | Present |
| 23 | Dr. Narendra Bhagat | NAB | Present |
| 24 | Dr. Prashant Kasambe | PK | Present |
| 25 | Prof. Payal Shah | PS | Present |
| 26 | Prof. Priya Deshpande | PD | Present |
| 27 | Prof. Najib Ghatte | NG | Present |
| 28 | Prof. Manisha Bansode | MB | Present |
| 29 | Dr. Deepak Karla | DK | Present |
| 30 | Dr. R. G. Sutar | RGS | Present |

The agenda for the meeting:

1. To discuss the program specific outcomes (PSO)
2. To propose a 3 credit one Program core course in Sem VII.
3. To discuss the minor changes in the syllabus of ADC, ITC, IOT & Embedded systems (attached for your reference)





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Year 2023-24

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| 3 | Two subject experts from outside the Parent University to be nominated by the Academic Council. | Dr. Prasanna Chiplunkar (IIT Bombay) Dr. Kumar Appaiah (IIT Bombay) |
| 4 | One expert nominated by the vice-chancellor | Dr. Kushal Tuckley (IIT Bombay) Dr. Uday Pandit Khot (SFIT Mumbai) Dr. S. S. Mande (DBIT Kurla) Dr. Shrinivas P Mahajan (COEP) Dr. Amit Deshmukh (DJSCE) Dr. Mr. P. P. Bartakke (COEP) |
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| | | |
|---|---------------------|--|
| | | Prof. Priya Deshpande (Asst. Prof.) Prof. Najib Ghadie (Asst. Prof.) |
| 9 | Current BE Students | L V Aditi Chaluvadi Ankit Datta Vansh Jain Kaustubh Venkatesh Pujan Soni Pulkit Chaudhari |

Head

Department of Electronics and Telecommunication
Engineering

Principal

Sardar Patel Institute of Technology

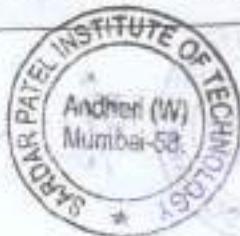


21-22

Sardar Patel Institute of Technology
Department of Electronics and Telecommunication

| | | | | |
|----------------|--------|--------------|---------|---------|
| Milind | Paraye | 2 hr. 15 min | 3:52 PM | 6:17 PM |
| Surendra Singh | Rathod | 2 hr. 54 min | 4:34 PM | 7:28 PM |
| Rajendra | Sawant | 3 hr. 34 min | 3:04 PM | 6:38 PM |
| Rajendra | Sutra | 2 hr. 48 min | 3:07 PM | 5:55 PM |
| Kiran | Talele | 3 hr. 31 min | 3:05 PM | 6:36 PM |
| Sneha | Weakey | 2 hr. 18 min | 4:06 PM | 6:25 PM |

| | |
|---|---|
| Meeting Name: | Post BOS Meeting |
| Date of Meeting: | 11/8/21(2.30pm-7.00pm) & 12/8/21 (3.00pm-7.00pm) |
| Place: | Online https://meet.google.com/bsp-ejhh-zkt?pli=1&authuser=2 |
| Attendees: | As per above table |
| Minutes Prepared by: | Pallavi Nair & Amol Deshpande |
| HOD EXTC & ETRX addressed the members and the meeting was commenced. | |
| Meeting Agenda | Discussion |
| 1. Third year and Final Year Proposed Syllabus/ Inputs received from BOS meeting | <ul style="list-style-type: none"> 1) TE (EXTC and ETRX) syllabus was discussed 2) Analog and Digital Communication: <ul style="list-style-type: none"> i) CO statement changed ii) Change column of CO to subject code + point ex: CO1 → EC301.1. iii) Suggestion by Prof. Kasambe: Header is needed in the syllabus to indicate the semester and year. Reply by Dr. BNC: Not necessary to get such indications as complications will increase. iv) No issues with CO v) Suggestion by Rathod Sir: Not to put '/' put ',' vi) Questions raised regarding principle of FDM. Types of pulse modulation added to the syllabus. 3) Control System: <ul style="list-style-type: none"> i) EC302.5 was changed ii) Both new and old books can be used iii) C. Houpis reference book updated 4) DSP: <ul style="list-style-type: none"> i) Subband filters topic added to the self-study module 5) Change of name in Electromagnetic Engineering in syllabus and scheme. CO Changed 6) Java programming languages: Syllabus will continue 7) FOA needs to be added to program elective baskets 8) Mobile and Wireless Communication: MIMO needs to be added (comment by Kumar Appalayah Sir), change not implemented to decrease complexity. 9) Microwave engineering COs changed 10) DSP processor: CO naming to be changed, All CO needs to be changed 11) Information theory/Optical Communication: no changes 12) WSN: Suggestion of Prof. Kumar Appalayah implemented 13) NGN: Suggestion implemented 14) IVP: CO changes made new formats added to the syllabus 15) Principal of Soft computing: CO explanation was asked |





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Department of Electronics and Telecommunication

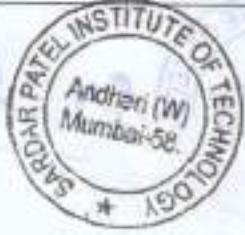
Minutes of the Meeting

Attending Members:11/8/21

| Participants | Joined | Left | Duration |
|--------------------------------|--------------------|--------------------|----------|
| Pallavi Malame | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Anand Mane | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Dayanand Ambawade | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Deepak Karia | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Dr. Amol Deshpande | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Kiran Talele | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Manish Parmar | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Manisha Bansode | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Milind Paraye | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Prashant Kasambe | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Priya Deshpande | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Rajendra Sawant | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Rajendra Sutar | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Reena Kumbhare | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Reena Kumbhare Presentation | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Sukanya Kulkarni | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Surendra Singh Rathod | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |
| Vijaya Kamble | 8/11/2021 15:51:29 | 8/11/2021 15:51:29 | 00:00:00 |

Attending Members:12/8/21

| First name | Last name | Duration | Time joined | Time exited |
|------------|-----------|--------------|-------------|-------------|
| Dayanand | Ambawade | 3 hr. 38 min | 3:02 PM | 6:49 PM |
| Manisha | Bansode | 3 hr. 39 min | 3:02 PM | 6:41 PM |
| Narendra | Bhagat | 1 hr. 17 min | 3:02 PM | 7:16 PM |
| Dr. Amol | Deshpande | 3 hr. 49 min | 3:00 PM | 6:49 PM |
| Priya | Deshpande | 4 hr. 10 min | 3:03 PM | 7:28 PM |
| Govind | Haldankar | 3 hr. 18 min | 3:57 PM | 7:15 PM |
| Deepak | Karia | 4 hr. 32 min | 2:56 PM | 7:28 PM |
| Prashant | Kasambe | 4 hr. 28 min | 3:00 PM | 7:28 PM |
| Sujata | Kulkarni | 1 hr. 28 min | 3:26 PM | 4:53 PM |
| Sukanya | Kulkarni | 2 hr. 22 min | 3:05 PM | 5:27 PM |
| Reena | Kumbhare | 3 hr. 32 min | 2:57 PM | 6:31 PM |
| Anand | Mane | 3 hr. 41 min | 3:08 PM | 6:49 PM |





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| | <p>It is Program elective under signal processing thread.</p> <p>15) Energy Storage Systems in EV Applications</p> <p>Course Objectives has been added</p> <p>16) Open Elective Discussion</p> <p>Dr. Sutar conveyed that the pre-requisite for Open Electives must be complete prior to these courses.</p> <p>17) Cloud Computing</p> <p>Pre requisite has to be looked into because the prerequisite courses might not be covered to EXTC/ETRX students.</p> <p>18) Consumer Electronics</p> <p>Prerequisite is revisited and changed</p> <p>CO were discussed and there is no change</p> <p>CO-PO Mapping has to be added</p> <p>19) Robotics and Machine Vision Intelligence</p> <p>Dr. Rathod and Prof. A Mane shared thought that syllabus needs to be revisited considering that it will be taught to COMPS/IT too. Also, considering that it has 2 hours, the syllabus seems exhaustive.</p> <p>20) Cyber Security & Digital Forensics</p> <p>CO were discussed and revised. CO-PO Mapping has to be added.</p> <p>21) OE proposed by other departments:</p> <p>It was discussed that such courses has to be revisited by Dr. Sutar. ETRX/EXTC should not be suggest changes.</p> <p>Course Objectives is not mentioned.</p> <p>Pre-requisite should be clearly mentioned.</p> <p>22) IPR and Technology Entrepreneurship</p> <p>It was discussed on prerequisite.</p> <p>CO was also looked into and there were no changes.</p> <p>CO-PO correlation was also discussed, and changes were made</p> <p>Courses of Industrial Automation and Control and Sensors and Actuators are ready to be proposed by department. This has to be conveyed to Dean Academics and Principal.</p> |
| General Comment | <p>1) Discussion on PEO: Dr. BNC said generalised PEO statements are not accepted and different programs should have different PEO, Lectures on CO be taken by Prof. Rathod, Dr. Rathod said it is usually generalised.</p> <p>2) Scheme needs to be changed (Program elective Subjects)</p> |

Concluding Remark: Syllabus Changes will be implemented for AY 2021-22 . All Faculties were thanked for their time and input.

HOD EXTC

Dr. Reena Sonkusare



HOD ETRX

Dr. Deepak Karia



Sardar Patel Institute of Technology
Department of Electronics and Telecommunication

| | |
|---|---|
| 2. Open Elective Courses/Meeting minutes on 12/8/21 | <p>1) Meeting scheduled at 2.00 pm on 12/8/21</p> <p>2) Power Electronics Practical was mistakenly mentioned, it is removed now COs need not be change. CO is revised. Higher POs are not mapping CO ET306.5 is not mapping anywhere</p> <p>3) Dr. Sawant suggested: Number of hours for module "DC to DC Converters" can be reduced and instead "AC to DC Converters" can be increased</p> <p>4) In track of VLSI and Embedded systems, teaching scheme (hrs/week) has to be looked into.</p> <p>5) Digital CMOS and VLSI Design</p> <p>6) Prof. P Kasambe is suggesting to have a separate table of subject threads being offered to students.</p> <p>7) In general thread: one course is Power Converters, and other are related to renewable energy.</p> <p>8) CCN: Already discussed with EXTC syllabus</p> <p>9) Digital CMOS VLSI Design 'Course Objective' has to be written. Discussion on whether 'Explain' can be included in two COs it has to be relooked by involving convenor and other members. Prof. Kumar Appaiah suggested to mention some EDA tools.</p> <p>10) Embedded Systems: 'Course Objective' has to be written. In CO, 'Explain' word can be replaced and reframed. CO-PEO/PSO table has to be revised. No comments from external experts.</p> <p>11) Power Electronic Converters COs are revised after discussion. Similar CO changes has been done for Power Electronics. Meaning of "@" has to be elaborated</p> <p>12) Embedded System Design for Power Converter Applications: The syllabus needs to be added with COs, course objective, CO-PO mapping, hours has to be allocated. Prof. Kasambe shared his thought that the syllabus content is generalized. Prof. A Mane shared his thought that some points of this syllabus are repeated from some of earlier syllabus. Dr. Rathod mentioned that there is mismatch between course title and course content. Also, most of the points must have already been covered in some or the other course. Dr. Sawant conveyed that this course has to be completely looked into and whether to include this course or not has also to be discussed.</p> <p>13) Analog CMOS VLSI Design Prof. Kumar Appaiah's comment on this course: It would be good to mention some practical application circuits in addition to amplifiers, such as data converters, phase locked loops etc. as additional building blocks if the syllabus permits. One of the CO consists of 'Explain'. It has to be revisited. Course Objective' statement has to be added.</p> <p>14) Network Fundamentals</p> |
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Comments on SPIT Syllabi

Kumar Appaiah

August 10, 2021

Contents

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| 1 | B.Tech. (Electronics Engineering) | 1 |
| 1.1 | Semester-V | 1 |
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| 1.3 | Semester VII-VIII | 2 |
| 2 | B.Tech. (Electronics Engineering) | 2 |
| 2.1 | Semester-V | 2 |
| 2.2 | Semester-VII | 2 |

1 B.Tech. (Electronics Engineering)

1.1 Semester-V

Analog and Digital Communication: The syllabus is good, but emphasis should be more towards part 4, since that is what modern systems need.

Control Systems: No comments.

Digital Signal Processing: You could consider offering alternate self-study topics, since multirate may not be of interest to all. In addition, mention may be made of digital filter design and using DSP for processing continuous signals.

Electromagnetic Engineering: No comments.

Java programming lab: No comments, although the lab could include one basic example with something practical, like networking, Swing UI etc.

Computer communication networks: No comments.

Digital CMOS VLSI Design: Mention could be made of some EDA tools. No other comments.

Embedded Systems: No comments.



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Speech and audio processing: It would be good to include linear prediction and its use in speech codecs.

DSP Processor: No comments.

Power Electronic Converters: No comments.

Embedded System Design for Power Converter Applications: No comments.

1.2 Semester VI

Power Electronics: No comments.

1.3 Semester VII-VIII

Real-time operating systems: No comments

Analog CMOS VLSI Design: It would be good to mention some practical application circuits in addition to amplifiers, such as data converters, phase locked loops etc. as additional building blocks if the syllabus permits.

Image and Video Processing: It would be good if some mention of recent formats such as HEVC, H.265 etc. Need not be covered in detail, but the situations where these are useful could be mentioned. In addition, some of the lab experiments could include studying existing open source codecs and their performance to connect with the course material.

Principles of Soft Computing: No comments.

Networking fundamentals: I am curious as to which application server is covered.

Energy Storage Systems in EV Applications: No comments.

Power Electronic Converters in EV Applications: No comments.

2 B.Tech. (Electronics Engineering)

2.1 Semester-V

(Comments for common courses may be referred above)

Fundamentals of antenna: No comments.

Mobile and Wireless Communication: It would be very useful to cover MIMO here, given its use in various wireless systems.

Microwave Communication: No comments.

Information Theory and Coding: Since this is a theoretical topic, it may be good to also mention (not teach fully, but only mention in passing)



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applications such as Zip for compression, Gaussian channels etc. No other comments.

Optical Fiber Communication: No comments.

2.2 Semester-VII

(Comments for common courses may be referred above)

Wireless Sensor Networks: Power, signal processing transmission related constraints may be covered as part of part 1.1.

Next Generation Networks: 5G networks and small cells could be covered as part of the syllabus. No change in syllabus needed, though.

Artificial Intelligence and Machine Learning: No comments. I hope that this course has many assignments to drive home concepts.

Telecom Network Operation and Management: No comments.



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| Sr. No. | Designation | Name |
|------------|--|---|
| 1 | Chairman (Head of the Department) | Dr. Reena S. Sonkusare |
| 2 | Faculty as per Specialization | Dr. A. S. Rao Dr. Sukanya Kulkarni Prof. D. D. Ambawade |
| 3 | Three subject experts from outside the parent university to be nominated by the Academic Council | Dr. Prasanna Chaporkar Mr. Ganeshwar Kamble Dr. Kumar Appaiah |
| 4 | One expert nominated by the vice-chancellor | Dr. Niranil Jagannath Dr. Sunil Bhardwaj |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Dr. Zia Saquib |
| 6 | One graduate meritorious alumnus | Mr. Harshal Sardeshmukh Mr. Prathamesh Pilankar Mr. Sagar Sawant |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. B C Fernandes Dr. M H Patil Dr. Sanjay Dambhare |
| 8 | Other members of staff of the same faculty | Dr. Sujata Kulkarni Prof. Manish Parmar Prof. Sukanya Kulkarni Prof. A D Mane Prof. Vijaya Kambale Dr. Anil Deshpande Prof. Milind Patavde Prof. Pallavi Malambe Prof. Socha Weakey |

Ranikarla
Head

Department of Electronics and Telecommunication
 Engineering

Principal
 Sardar Patel Institute of Technology



2020-21

Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-40005

Electronics Department

Minutes of Meeting Board of Studies

28-7-20(Tuesday)

(9.30am)

AGENDA:

1. Modified structure of UG
2. First year UG curriculum
3. Second year UG curriculum
4. Vote of thanks

Minutes of the Meeting:

- 1) Dr.D.C.Karia welcomed all the Members present
- 2) Dr. B.N. Chaudhari briefed the members about the structure of proposed Pi Model curriculum, where a detailed briefing cum presentation was done by Dean Academics, Dr. R.G. Sutar.
- 3) Dr. Sutar further presented the UG Scheme for ETRX & EXTC-AY 2020-2021. Based on the discussions and deliberations, the following points are noted and minuted accordingly:
 - a) Introduction of Advanced CAO to be done or check for subject density from student point of view.
 - b) Mini project evaluation methodology policy and result declaration may create for problem input. More thought/review to be given here.
 - c) Since the syllabus for semester -VII is yet to be proposed, the importance of involving subjects under the head of Basic Science Electives should be given a thought.
 - d) Grading of SEVA/SATVA:- Grading Scheme to be decided and challenges to be thought of.
 - e) Max limit should be kept for program electives to be decided (Prof. BGF)
 - f) Engineering Physics CO to be revised.
 - g) A subject based on applications to aid the curiosity of students should be given a preference. Chemistry syllabus can be reviewed, some topics are irrelevant. Maths to be taught in an applied way and show ways of application.
- 4) Dr.D.C.Karia, ended the meeting by thanking all the members for their valuable inputs.

Dr. Deepak Karia
H.O.D (ETRX)
M.E. Pt.D (VJTI Mumbai)
Head of Electrical Engineering Department
Bharatiya Vidya Bhawan
Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W), Mumbai-400 058.

R.G. Sutar
DEAN ACADEMICS



Bharatiya Vidyabhawan
PRINCIPAL
Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W),
Mumbai-400 058.



Sardar Patel Institute of Technology
 Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
 (Autonomous Institute Affiliated to University of Mumbai)

Department of Electronics Engineering
Constitution of BoS for the Academic year 2020-21

| Sr. No. | Designation | Name |
|---------|--|--|
| 1 | Principal | Dr. Bhalchandra Chaudhari |
| 2 | Chairman (Head of the Department) | Dr. Deepak C. Karia (Asso. Prof.) |
| 3 | Faculty as per Specialization | 1. Dr. S. S. Rathod (Professor) 2. Dr. Rajendra G. Sutar (Asso. Prof.) 3. Prof. K. T. Talele (Asso. Prof.) 4. Prof. Narendra A. Bhagat (Asso. Prof.) |
| 4 | Two subject experts from outside the parent university to be nominated by the Academic Council | 1. Dr. B. G. Fernandes(IIT Bombay) 2. Dr. Sanjay Dambhare (COEP) |
| 5 | One expert nominated by the Vice-Chancellor, UoM | Dr. S. S. Mande, DBIT Kurla |
| 6 | One representative from Industry/corporate sector/allied area relating to placement | Mr. Bharat Chaudhari |
| 7 | Postgraduate meritorious alumnus | 1. Ms. Ipsita Bhattacharya 2. Mr. Abhijeet Gokhale |
| 8 | Students Representatives | 1. Ritwik Pandit 2. Krish Matreja |
| 9 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. B. K. Lande (Adjunct Prof., Datta Meghe COE, Airolly) |
| 10 | Other internal subject experts involved in syllabus revision | 1. Prof. Prashant Kasambe (Asst. Prof.) 2. Prof. Govind T. Haldankar (Asst. Prof.) 3. Prof. Payal Shah (Asst. Prof.) 4. Prof. Manisha Bansode (Asst. Prof.) 5. Prof. Priya Deshpande (Asst. Prof.) |

D. C. Karia
Dr. Deepak Karia

M.T.: *A.D. (VJU, A.I.T.B.S.)
 Head of Electronics Engineering Department
 Bharatiya Vidya Bhawan
 Sardar Patel Institute of Technology
 Munshi Nagar, Andheri (W), Mumbai - 400 058.

R.G.S.
Dr. Rajendra Sutar



B. Chaudhari
PRINCIPAL
Principal
 Bharatiya Vidya Bhawan
 Sardar Patel Institute of Technology
 Munshi Nagar, Andheri (W),
 Mumbai-400 058.



Sheet 1

Attendance for: Class List on 2020-07-28

| Names | 2020-07-28 11:52 | Arrival time |
|---------------------------|------------------|------------------------|
| anand mane | ✓ | 12:03 (0min) [12:03] |
| dr. b. n. chaudhari sir | ✓ | 11:52 (132min) [14:05] |
| dayanand ambawade sir | ✓ | 12:06 (13min) [14:05] |
| dnyanesh.kamble74 | ✓ | 13:09 (0min) [13:09] |
| dssawant1 | ✓ | 11:58 (7min) [12:06] |
| govind haldankar | ✓ | 13:16 (2min) [14:06] |
| chandrashekhar gajbhiye | ✓ | 12:33 (4min) [12:36] |
| ipsita bhattacharya | ✓ | 11:58 (2min) [12:01] |
| jagannath nirmal | ✓ | 12:30 (84min) [14:03] |
| kiran talele | ✓ | 11:51 (49min) [14:05] |
| manisha bansode | ✓ | 11:58 (7min) [12:06] |
| milind paraye | ✓ | 12:05 (0min) [12:05] |
| najib ghatte | ✓ | 12:05 (0min) [12:05] |
| narendra bhagat | ✓ | 11:56 (29min) [12:26] |
| nida bakereywala | ✓ | 11:57 (13min) [12:13] |
| pallavi malame | ✓ | 12:04 (4min) [12:13] |
| Payal Shah | ✓ | 13:42 (0min) [13:42] |
| prashant kasambe | ✓ | 11:58 (52min) [14:05] |
| priya chimurkar | ✓ | 12:14 (0min) [12:14] |
| rajendra sutar | ✓ | 11:57 (118min) [14:04] |
| reena kumbhare | ✓ | 11:53 (46min) [14:05] |
| rajendra sawant | ✓ | 11:56 (3min) [11:59] |
| sudhakar mande | ✓ | 11:58 (38min) [12:38] |
| sujata kulkarni | ✓ | 11:58 (1min) [11:59] |
| sukanya kulkarni | ✓ | 12:02 (2min) [12:04] |
| surendra singh rathod | ✓ | 12:00 (0min) [12:00] |
| vijaya kamble | ✓ | 12:01 (27min) [12:32] |
| yerramreddy srinivasa rao | ✓ | 12:06 (89min) [14:05] |
| deepak karia | ✓ | 11:55 (28min) [14:06] |
| mousumi bhattacharya | ✓ | 11:54 (3min) [11:57] |
| prof. b. k. lande | ✓ | 11:54 (42min) [14:03] |
| rutwik pandit | ✓ | 11:56 (3min) [11:59] |
| meghana n | ✓ | 11:57 (1min) [11:58] |
| krish matreja | ✓ | 11:57 (5min) [14:05] |
| bharat chaudhari | ✓ | 11:58 (0min) [11:58] |
| zia saquib | ✓ | 11:59 (14min) [14:03] |
| preeti vinayakray | ✓ | 12:00 (16min) [14:04] |
| prathamesh pilankar | ✓ | 12:00 (1min) [12:01] |
| abi g | ✓ | 12:02 (0min) [12:02] |
| mahesh patil | ✓ | 12:03 (119min) [14:01] |
| manish parmar | ✓ | 12:06 (7min) [12:13] |
| dnyaneshwar kamble | ✓ | 12:07 (2min) [12:09] |
| dr. sanjay dambhare | ✓ | 12:08 (98min) [14:01] |
| dattatray sawant | ✓ | 12:23 (0min) [12:23] |
| fernandes b g | ✓ | 12:27 (82min) [14:06] |
| dhananjay kalbande | ✓ | 12:30 (0min) [12:30] |
| dr. amol deshpande | ✓ | 12:34 (0min) [12:34] |

Dr. Deepak Karin
Dr. Deepak Karin
M.E., Ph.D. (VJTI) - ...
Head of Electronics Engineering Department
Shrikrishna Vidya Bhawan's
Engineering College, ...
Mumbai, Maharashtra (W), India - 400 058.



Rashmi
Mr. H. G. Sutarkar
March 2020, Andheri (W), Mumbai

Sekhrib



Bhartiya Vidya Bhavan's

Sardar Patel Institute of Technology

(Autonomous Institute Affiliated to University of Mumbai)

[Knowledge is Nectar]

Liberal, Pi-Model of Engineering Education @ SPIT (Department of Electronics Engineering)

Salient Features

- 160-Credit Liberal Engineering Education Model.
- A strong program core of 12 courses and 6 baskets of program electives to ensure the breadth and depth in a chosen domain of studies. Program electives are arranged either to grow in a specified vertical or have diversified exposure.
- Full semester industry internship to interested students.
- Aggressive model of "Learning-by-doing". (Engagement in classroom and laboratory sessions is 50:50)
- Special tracks for "Minor" Certification for interested learners, ensuring significant awareness of additional discipline leading to multiple specializations
- Unique, multi-track model of "Honors" Certification, for well performers for enhanced depth in the domain of study.
- Special sequel of optional industry floated "SCOPE" courses (Skilled Certification for Outcome-based Professional Education) for interested learners, ensuring high technical skills, in the diversified cutting-edge technologies.
- First-of-its-kind-in-education blend to Engineering Curriculum. "ABLL@LLC" (Activity Based Liberal Learning about Life, Literature and Culture) in all EIGHT semesters, ensuring all dimensional holistic growth of the learner. These eight activity based mini courses are offered as two sequels namely "SEVA"® (Social Empowerment through Various Activities), and "SATVA"® (Self accomplishment through various Activities).

This curriculum aims at development of an all-rounded personality. It follows holistic approach of education, ensures strong science, mathematics foundation and program core, develops expertise in domain vertical though sequel of electives, ensures significant exposure of additional discipline through "Minor" program, collaborates outside world for the imparting relevant skills through "SCOPE" courses, challenges good learners through "Honors" evaluation, and systematically develops soft skills, and social, physical, mental, spiritual personality through carefully articulated Liberal Learning and Humanities sequels. Thus, offers a unique, liberal "Pi-Model" of Engineering Education.

SPIT/UG Curriculum/2020 (Liberal Pi Model)

Rajendra Sutar
Principal
Bhartiya Vidya Bhavan's
Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W).
Mumbai-400 058.

Sardar Patel Institute of Technology
Mumbai, 400 058
Date: 2020-08-01
Signature: [Signature over the stamp]

Program Core

At SPIT, every undergraduate program consists of **Twelve Core Courses** referred as Program Core. Several academic models from reputed institutions in the country and outside the country are studied in articulating this Program Core, to make curriculum Globally Competitive. All courses in this Core have laboratory component to augment the learning. Each program core course has additional optional component of "Contents beyond the curriculum" which is carefully designed to ensure additional 15-20 hours engagement of the learners. The learner thus is nurtured towards the "Self-Learning" and "lifelong learning" which are essential attributes of 21st Century learner.

Program Electives

At SPIT, every program has **Six baskets** of Program Electives, each basket having minimum 3 courses. This enables learner to grow in a domain-specialization or domain-vertical. For example, learner can graduate with B.Tech Electronics with vertical in "Embedded Systems" or "VLSI" or "Signal Processing". Or a learner can graduate with B.Tech Computer Engineering with specialization in "Security" or "ML & AI" or "Computer Networking" or "Data Science". At the same time, learner can increase her bandwidth opting for elective courses which are general in nature, not pointing out towards a specific vertical.

Open Electives

Every undergraduate program has three baskets of open electives. This is planned to give exposure to interdisciplinary and cross disciplinary domains. The courses in these baskets are planned both at department and institute level. Students can choose any combination of these courses (not floated by the parent department) to get familiar with other domains of learning. One of these open electives must be chosen from Basic science courses or Engineering Science courses. This unique approach of offering additional basic science or engineering science elective at senior level aims at appreciating the importance of other domains of learning.

Humanities and Social Science Electives

National Education policy 2019 has aptly spelled out the necessity of Humanities in the Professional Education. It quotes, "A holistic and liberal education as described so beautifully in India's past is indeed what is needed for the education of India in the future to truly lead the country into the 21st century and the fourth industrial revolution. Even engineering schools such as the IITs must move towards a more liberal education integrating arts and humanities". Every program at SPIT has three baskets of humanities. Learners are encouraged to take diversified courses in the field of languages, law, history, economics, management, finance etc.



SCOPE Certification

This unique sequel is designed to systematically develop skills required for an industrial sector. SPIT is partnering with various industries to offer the high-end skills required for a specific industrial sector. Well performing students can stretch the envelop and add new dimension to their Professional Personality by earning this certification. There are multiple tracks for SCOPE certification. Each track is offered with partnership with reputed institution or industry. These tracks are jointly designed by SPIT and partnering industry. Each track has four courses (modules). Each module/course is of 2-3 credits including laboratory component for most of the tracks. These tracks are also open for outside learners, leading to Certificate Program in a chosen domain.

Minor Certification

This additional and optional certification provides an opportunity to learner to develop the leaners in the additional domain of interests. It broadens the education and ensures the multi-disciplinary development which is essential attribute of 21st century engineer. However, this is optional. Well performing students can stretch the envelop and add new dimension to their Professional Personality. Each track for this minor certification is offered either by SPIT or with partnership with other reputed institutions. Each track has four courses (modules). Each course is of 3 credits and laboratory component if any. These tracks are also open for outside learners, leading to Certificate Program of 12 credits in a chosen domain.

Honors Certification

While the Minor and SCOPE certifications aim at adding additional professional dimension to the professional personality of the learners, the Honors certification gives opportunity to well performing learners to drive deep in the chosen field of study. Multiple plans/ways are planned to encourage learners to earn this certification which essentially excite the learners to push an envelope and go extra/deep in the chosen area of the study. Students earn additional stars (*) as shown in Table 1 during their program. If at the time of graduation student earns total TWELVE stars, she is conferred with "Honors" certification.



Bhavna →

✓

Table 1: Additional "STAR" Earning leading to "Honors" certification

| Activity | Definition of "STAR" | | Maximum Limit |
|---|---|--------------|---------------|
| Earning top grade in any of the 12 courses which constitute the program core. | Top Grade: Full STAR Next GRADE: Half STAR | | 8 STARS |
| Enrolling additional "Honors" Course at fourth year. | Top Grade: 3 STARS Next GRADE: 2 STARS Next GRADE: 1 STAR | | 6 STARS |
| Success in the GATE examination | Percentile Score | STARS Earned | 8 STARS |
| | Above 99 | 6 | |
| | Above 98 | 5 | |
| | Above 95 | 4 | |
| | Above 90 | 4 | |
| | Valid score | 2 | |
| Research Publication | Journal* :2- 6 STARS SPIT supported Patent : 3 STARS | | 8 STARS |
| Completion of PG level on line course from IITs available on NPTEL | Percentile Score | STARS Earned | 6 STARS |
| | Above 95 | 3 | |
| | Above 90 | 2 | |
| | Above 80 | 1 | |
| #Winning prestigious technical competitions at National level | Rank | STARS Earned | 6 STARS |
| | 1 | 4 | |
| | 2 | 3 | |
| | 3 | 2 | |
| **Enrolling for optional "Special Honors Paper" in Semester 3, 4, and 5. | Above 70% : 3 STARS Above 60%: 2 STARS Above 50%: 1 STAR | | 8 STARS |

*In identified journals only. No of STARS to be decided by Institute Committee.

#In identified events by the institute

**This special paper will cover all core courses in the semester and its difficulty level will be higher than the normal end semester examination paper. The question paper will be of GATE standard.



RJ
Jill 2023

Sekhriy
→

Activity Based Liberal Learning about Life, Literature and Culture (ABLL@LLC)

"Education will fail ignominiously in its objective if it manufactures only a robot and called him an economic man stressing the adjective economic and forgetting the substantive man. A university cannot afford to ignore the cultural aspects of education whatever studies it specializes in. Science is a means, not an end. Whereas culture is an end in itself. Even though you may ultimately become a scientist, a doctor, or an engineer, you must, while in college, absorb fundamental values which will make you a man of culture."

Kulpati Dr. K. M. Munshi

How aptly our visionary founder has given direction to the education. His wisdom towards education inspires, encourages us to experiment in the field of education, to make it as relevant and helpful to the society as possible. Mahatma Gandhi once quoted, "By education I mean an all-round drawing out of the best in man; body, mind and spirit".

Recently announced National Policy on Education-2019, reconfirms this and profoundly stresses the need of liberalizing the higher education including professional education. It quotes, "Higher education must develop good, well-rounded and creative individuals, with intellectual curiosity, spirit of service and a strong ethical compass". Moving towards a more liberal undergraduate education is one of the most important features of this policy. It narrates, "The needs of the 21st century require that liberal broad-based multidisciplinary education become the basis for all higher education. This will help develop well-rounded individuals that possess critical 21st century capacities in fields across arts, humanities, sciences, social sciences, and professional, technical, and vocational crafts, an ethic of social engagement, and rigorous specialization in a chosen field or fields. Such a liberal education would be, in the long run, the approach across all undergraduate programs, including those in professional, technical, and vocational disciplines. Imaginative and flexible curricular structures will enable creative combinations of disciplines for students to study, thus demolishing currently prevalent rigid boundaries and creating new possibilities for lifelong learning. The notion of 'knowledge of many arts'- i.e. what is called 'liberal arts' in modern times – must be brought back to Indian education, as it is exactly the kind of education that will be required for the 21st century."

We at Bhavan's SPIT, make sincere attempt to blend engineering education appropriately with arts, humanities, crafts, ethic of personal and social engagement to ensure holistic development of the learner. We have carefully designed liberal learning courses covering Life, Literature, and Culture (LLC @ LLC) for all the semesters of the program. Learner concurrently studies these courses. These courses broadly fall under two groups, namely "SEVA (Social Empowerment through Various Activities)" and "SATVA (Self Accomplishment through Various Activities)". Each of these groups, has four modules as indicated in Table 2 and Table 3. Further each module has multiple courses of 1 or 2 credits (An engagement of 35-40 hours is expected to earn one credit). Every learner at SPIT is expected to take 1 such course on LLC every semester. We strongly believe that these EIGHT liberal learning modules will help us to appropriately blend the professional education as envisaged by the National Policy Makers.



RR

Sunday

SUGGESTED LIST OF COURSES (INDICATIVE ONLY)

Open Electives I and II

| | |
|---|--|
| OEXXX | IoT and IIoT |
| OEXXX | Cloud Computing |
| OEXXX | Augmented and Virtual Reality |
| OEXXX | 3D Printing |
| OEXXX | Industrial Automation |
| OEXXX | Artificial Intelligence and Machine learning |
| OEXXX | Cyber Security & Digital Forensics |
| OEXXX | Block Chain Technology |
| OEXXX | E-Mobility |
| OEXXX | Smart Grid |
| courses floated as Open elective by the Departments | |
| OEXXX | Consumer Electronics |
| OEXXX | Robotic & Machine Vision |
| OEXXX | Data Structures and Algorithms |
| OEXXX | Information and Network Security |
| OEXXX | Human Machine Interaction |
| OEXXX | Software Engineering |
| OEXXX | Database Management Systems |
| OEXXX | Internet Technology |
| OEXXX | Data Analytics |

Any other 12 weeks Course approved by the Dean Academics and Principal

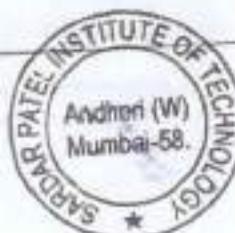
Open Elective III-Basic Science Electives

| | |
|-------|---|
| OEMAI | Advanced Statistics |
| OEAS1 | Biology for Engineers-Part II |
| OEAS2 | Climate and Earth Science |
| OEMA2 | Engineering Optimization |
| OEAS3 | Environment and Sustainability |
| OEAS4 | Semiconductor Optoelectronics |
| OEMA3 | Numerical Methods for Engineers |
| OEXXX | Any other Course approved by the Dean Academics and Principal |

Open Elective III-Engineering Science Electives

| | |
|-------|-----------------------------|
| OEXXX | Thermal & Fluid Engineering |
| OEXXX | Manufacturing Processes |
| OEXXX | Electric Drives. |
| OEXXX | Engineering Materials |
| OEXXX | Data Structures |
| OEXXX | Algorithms |

SPIT/UG Curriculum/2020 Iteration/ETHX/IE



Senthil

| | |
|-------|---|
| OEXXX | Sensors and Actuators |
| OEXXX | Communication Engineering |
| OEXXX | Any other Course approved by the Dean Academics and Principal |

Open Elective IV: Humanities and Management Related

| | |
|-------|---|
| OEHXX | Management Principles |
| OEHXX | Research Methodology |
| OEHXX | IPR and Patents |
| OEHXX | Law for Engineers |
| OEHXX | Organizational Behavior |
| OEHXX | Leadership, Innovation and Entrepreneurship |
| OEHXX | Project Management |
| OEHXX | Finance for Engineers |
| OEHXX | Any course approved by Dean Academics and Principal |

Humanities and Social Sciences Electives

Special Tracks

| | HSSE-I | | HSSE-II | | HSSE-III |
|--------|-------------------------|--------|--------------------------|--------|---------------------------|
| HSE11 | Law for Engineers-I | HSE12 | Law for Engineers-II | HSE13 | Law for Engineers-III |
| HSE21 | Finance for Engineers-I | HSE22 | Finance for Engineers-II | HSE23 | Finance for Engineers-III |
| HSE31 | Psychology-I | HSE32 | Psychology-II | HSE33 | Psychology-III |
| HSE41 | Economics-I | HSE42 | Economics-II | HSE43 | Economics-III |
| HSE51 | Ancient India | HSE52 | Medieval India | HSE53 | Modern India |
| HSE6X1 | Language X-I | HSE6X2 | Language X-II | HSE6X3 | Language X-III |

Common Pool for HSSE-I, II and III (May be studied on MOOC's)

| | | | |
|--------|------------------------|--------|-------------------------------|
| HSEC01 | Film Appreciation | HSEC02 | Universal Values |
| HSEC03 | Game Theory | HSEC04 | Human Behavior |
| HSEC05 | Ecology and Society | HSEC06 | Energy Economics and Policies |
| HSEC07 | Drama Appreciation | HSEC08 | Political Ideologies |
| HSEC09 | Justice | HSECXX | Any other Approved Course |
| HSEXX | Any course from HSSE-I | | |



Bhavna

Table 2: SEVA

| SEVA (Social Empowerment through Various Activities) | | | |
|--|------------------|--|------|
| Module | Title | Courses | CODE |
| SEVA-I | SOCHO BHARAT | Study of Green & White Revolutions in India | SV10 |
| | | Government Missions [Study of any 2] | SV11 |
| | | Study of India's top 2 problems | SV12 |
| | | Study of World's top 2 problems | SV13 |
| | | How Government Works? [Study of one department of the Central/ State Government] | SV14 |
| | | Study of one of the identified Books | SV15 |
| | | Study of two National policies | SV16 |
| | | Any other activity approved by Dean Academics | SV1X |
| | | Courses | CODE |
| | | River/Beach/Mohalla/School/Campus/Govt offices Cleaning | SV20 |
| SEVA-II | SWACCH BHARAT | Waste Segregation Surveys | SV21 |
| | | NSS camp in village for a week | SV22 |
| | | Medical camps in schools | SV23 |
| | | First Aid training for a week | SV24 |
| | | Surveys and Estimation for roof top solar | SV25 |
| | | NCC participation | SV26 |
| | | Any activity approved by Dean Academics | SV2X |
| | | Courses | CODE |
| | | Mentoring of School Children | SV30 |
| | | Digital Literacy for yielders | SV31 |
| SEVA-III | SHIKSHIT BHARAT | Value addition for deprived schools | SV32 |
| | | Mentoring junior (first year) students at SPIT | SV33 |
| | | Teaching Assistantship at SPIT | SV34 |
| | | Development of learning material for schools/ITIs | SV35 |
| | | Participation in "Teach-for-India" movement | SV36 |
| | | Any other activity approved by Dean Academics | SV3X |
| | | Courses | CODE |
| | | Great Grass Root Innovations | SV40 |
| | | Innovation and Creativity | SV41 |
| SEVA-IV | SAMRUDDHA BHARAT | Critical Thinking and Problem solving | SV42 |
| | | Team work and collaboration | SV43 |
| | | Leadership & Entrepreneurship | SV44 |
| | | Design Thinking | SV45 |
| | | Study of one of the identified books | SV47 |
| | | Work with START-UP at SPIT | SV48 |
| | | Any other activity approved by Dean Academics | SV49 |



Schulbag
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Table 3: SATVA

| SATVA (Self Accomplishment Through Various Activities) | | | |
|--|------------------|--|------|
| Module | Title | Courses | CODE |
| SATVA-I | SANSKARIT BHARAT | Values and Ethos of Bhavan | ST10 |
| | | Essence of Indian traditional knowledge | ST11 |
| | | Philosophy of religion (any) | ST12 |
| | | Study of Life Management / Kindle Life / Life Empowerment and Enriching Program or any other book cited. | ST13 |
| | | Study of any of GREAT sons of INDIA [Ex. Gandhi, Ambedkar, Phule, Savarkar, Sardar Patel, Nehru, Shivaji, JRD Tata etc] | ST14 |
| Module | Title | Any other course approved by Dean Academics | ST1X |
| Module | Title | Courses | CODE |
| SATVA-II | SAKSHAM BHARAT | Target based Physical Exercise for example-Running [Test 5 kms in a stretch], Swimming [Test 1 km in a stretch], Walking [Test 20 kms in a stretch], Trekking [7days], Cycling | ST20 |
| | | Sports – Representation of Institute at University level/Inter college level and above in ANY sport | ST21 |
| | | Participation in National Tech Fest, AICTE-Hackathon, Industry floated global and national competitions, Robocon, BAHA etc | ST22 |
| | | Yoga vidya -I | ST23 |
| | | Any other activity approved by Dean Academics | ST2X |
| Module | Title | Courses | CODE |
| SATVA-III | SUNDER BHARAT | Institute representation in prestigious cultural fests/competitions | ST30 |
| | | Dance [Bharatanatyam /Kathak /Lavani /Western Dance]. Only for beginners | ST31 |
| | | Learning musical instrument [Any type]. Only for beginners. | ST32 |
| | | Film Appreciation/Dramatics/Seeing through Painting | ST33 |
| | | Making short film/Photography | ST34 |
| Module | Title | Yogavidya-II | ST35 |
| SATVA-IV | SURAKSHIT BHARAT | Any other activity approved by Dean Academics and DOSA | ST3X |
| | | Courses | CODE |
| | | Food that Heals | ST40 |
| | | Personal and Social Hygiene | ST41 |
| | | Intellectual Property Rights | ST42 |
| | | Etiquette and Conversational skills | ST43 |
| | | Basics of Ayurveda | ST44 |
| | | Study of one of the identified Books | ST45 |
| | | Any other course approved by Dean Academics | ST4X |



Indicative SCOPE/MINOR Certification

Minor/SCOPE Certification

| Minor/SCOPE Track | Partner Institute if any | Module | C |
|-----------------------------|---|---|------|
| Computer Engineering | SPIT | Data Structures and Algorithms | MN11 |
| | | Database Management Systems | MN12 |
| | | Machine Learning | MN13 |
| | | Computer Network and Internet Technology | MN14 |
| Industrial IoT | SPIT | Application Specific System Design | MN21 |
| | | Embedded "C" Programming & Real-time Software Development | MN22 |
| | | Software Design for Discrete time Control Algorithms | MN23 |
| | | Industrial Internet of Things (IIoT) System design and Applications | MN24 |
| Management | S.P. Jain Institute of Management and Research [SPJIMR] | Finance and cost Management | MN31 |
| | | Supply Chain Management, operations and project Management | MN32 |
| | | IT for Business, HR and Organization | MN33 |
| | | Marketing | MN34 |
| User Experience (UX) Design | ImaginXP, Pune | UX Design & Digitalization | SC11 |
| | | Empathy & Its Tools | SC12 |
| | | User Research & Its Application | SC13 |
| | | Design Thinking & Its Applications | SC14 |

Proposed Registration Fees for Minor/SCOPE Program:

- a. For SPIT students: Rs. 24,000/- (Rs. 6000 per course) +1000/- enrollment fee.
- b. For Non-SPIT students: Rs. 32,000/- (Rs. 8000 per course) +1000/- enrollment fee.



S. Shinde

Indicative SCOPE/MINOR Certification

Minor/SCOPE Certification

| Minor/SCOPE Track | Partner Institute if any. | Module | C |
|-----------------------------|---|---|------|
| Computer Engineering | SPIT | Data Structures and Algorithms | MN11 |
| | | Database Management Systems | MN12 |
| | | Machine Learning | MN13 |
| | | Computer Network and Internet Technology | MN14 |
| Industrial IoT | SPIT | Application Specific System Design | MN21 |
| | | Embedded "C" Programming & Real-time Software Development | MN22 |
| | | Software Design for Discrete time Control Algorithms | MN23 |
| | | Industrial Internet of Things (IIoT) System design and Applications | MN24 |
| Management | S.P. Jain Institute of Management and Research [SPJIMR] | Finance and cost Management | MN31 |
| | | Supply Chain Management, operations and project Management | MN32 |
| | | IT for Business, HR and Organization | MN33 |
| | | Marketing | MN34 |
| User Experience (UX) Design | ImaginXP, Pune | UX Design & Digitalization | SC11 |
| | | Empathy & Its Tools | SC12 |
| | | User Research & Its Application | SC13 |
| | | Design Thinking & Its Applications | SC14 |

Proposed Registration Fees for Minor/SCOPE Program:

- For SPIT students: Rs. 24,000/- (Rs. 6000 per course) +1000/- enrollment fee.
- For Non-SPIT students: Rs. 32,000/- (Rs. 8000 per course) +1000/- enrollment fee.



Re

S. M. D.

Indicative SCOPE/MINOR Certification

Minor/SCOPE Certification

| Minor/SCOPE Track | Partner Institute if any. | Module | C |
|-----------------------------|---|---|------|
| Computer Engineering | SPIT | Data Structures and Algorithms | MN11 |
| | | Database Management Systems | MN12 |
| | | Machine Learning | MN13 |
| | | Computer Network and Internet Technology | MN14 |
| Industrial IoT | SPIT | Application Specific System Design | MN21 |
| | | Embedded "C" Programming & Real-time Software Development | MN22 |
| | | Software Design for Discrete time Control Algorithms | MN23 |
| | | Industrial Internet of Things (IIoT) System design and Applications | MN24 |
| Management | S.P. Jain Institute of Management and Research [SPJIMR] | Finance and cost Management | MN31 |
| | | Supply Chain Management, operations and project Management | MN32 |
| | | IT for Business, HR and Organization | MN33 |
| | | Marketing | MN34 |
| User Experience (UX) Design | ImaginXP, Pune | UX Design & Digitalization | SC11 |
| | | Empathy & Its Tools | SC12 |
| | | User Research & Its Application | SC13 |
| | | Design Thinking & Its Applications | SC14 |

Proposed Registration Fees for Minor/SCOPE Program:

- a. For SPIT students: Rs. 24,000/- (Rs. 6000 per course) +1000/- enrollment fee.
- b. For Non-SPIT students: Rs. 32,000/- (Rs. 8000 per course) +1000/- enrollment fee.



SPIT/UG Curriculum/2020 Iteration/ETRX/



Sardar Patel Institute of Technology
 Shrivardhan Campus, Mumbai Nagar, Andheri (West), Mumbai - 400058 - India
 Autonomous Institute Affiliated to University of Mumbai

2020 ITERATION: ELECTRONICS DOMAIN

Nomenclature of the Courses

| | | | |
|-----------|--|-------|--|
| BSC | Basic Science Course | PC | Program Core |
| BSE | Basic Science Elective | PE | Program Elective |
| ESC | Engineering Science Course | MLC | Mandatory Learning Course |
| ESI | Engineering Science Elective | SCOPE | Skills Certification for Outcome based |
| SBC | Skilled Based Course | OE | Open Elective |
| ABL-SATVA | Self Accomplishment Through Various Activities | HSSA | Humanities and Social Science Elective |
| ABL-SEVA | Social Entrepreneurship Through Various Activities | | |

Abbreviations

| | | | |
|---|-----------------|---|---------------------------|
| L | Lecture Hour | O | Other Work / Self Study |
| T | Tutorial Hour | E | Total Engagement in Hours |
| P | Laboratory Hour | C | Credit Assigned |

Semester I

| No | Type | Code | Course | L | T | P | O | E | C | |
|----|------|-------|--|---|----|---|----|----|----|----|
| 1 | BSC | MA101 | Engineering Calculus | 3 | 1 | 0 | 8 | 12 | 4 | |
| 2 | BSC | SI101 | Engineering Physics | 3 | 1 | 2 | 5 | 10 | 4 | |
| 3 | ESC | SM1A | Engineering Graphics | 1 | 0 | 4 | 2 | 07 | 2 | |
| 4 | ESC | EE101 | Basic Electrical Engineering | 3 | 0 | 2 | 6 | 11 | 4 | |
| 5 | ESC | CS101 | Problem Solving using Imperative Programming | 2 | 0 | 2 | 3 | 07 | 3 | |
| 6 | SBC | AS106 | Skill Shop | 0 | 0 | 2 | 0 | 02 | 1 | |
| 7 | ABL | VSXX | SEVA-I or SATVA-I | 0 | 0 | 0 | 2 | 02 | 1 | |
| | | SIXX | | | | | | | | |
| | | | TOTAL | | 11 | 2 | 12 | 26 | 51 | 20 |

Semester II

| No | Type | Code | Course | L | T | P | O | E | C | |
|----|------|-------|---|---|----|---|----|----|----|----|
| 1 | BSC | MA102 | Differential Equations and Complex Analysis | 3 | 1 | 0 | 8 | 12 | 4 | |
| 2 | BSC | SI102 | Engineering Chemistry | 2 | 0 | 2 | 3 | 07 | 3 | |
| 3 | BSC | BI103 | Biology for Engineers | 2 | 0 | 0 | 3 | 05 | 2 | |
| 4 | ESC | ES102 | Engineering Mechanics | 2 | 0 | 2 | 3 | 08 | 3 | |
| 5 | ESC | CS102 | Problem Solving using OOPs | 2 | 0 | 2 | 4 | 08 | 3 | |
| 6 | ESC | EE102 | Digital Systems and Microprocessors | 3 | 0 | 2 | 5 | 10 | 4 | |
| 7 | SBC | AS107 | Writing Skills | 0 | 0 | 2 | 0 | 05 | 1 | |
| | | SIXX | | | | | | | | |
| | | | TOTAL | | 15 | 1 | 10 | 29 | 55 | 21 |

FIRST SUMMER

| No | Type | Code | Course | L | T | P | O | E | C |
|----|------|-------|--|---|---|---|---|----|---|
| 1 | SBC | AS108 | ENGINEERING EXPLORATION (Project to solve social problem) | 0 | 0 | 0 | 0 | 12 | 2 |

SPC/LS Syllabus A/2020-21/...

R. M. Patel
Shrivardhan's
Engineering & Technical
Institute, Andheri (W), Mumbai-58.



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Sardar Patel Institute of Technology
 Bhavan's Campus, Munshi Nagar, Andheri (Wes), Mumbai - 400058 India
 (Autonomous Institute Affiliated to University of Mumbai)

| Semester III | | | | | | | |
|--------------|------|-----------|--|-----------|----------|-----------|-----------------|
| No | Type | Code | Course | L | T | P | O |
| 1 | BSC | MA201 | Linear Algebra | 2 | 0 | 2 | 5 09 3 |
| 2 | PC | ET201 | Foundation of Mathematics-II | 2 | 1 | 0 | 6 09 3 |
| 3 | PC | EE202 | Computer Architecture & Organization | 3 | 0 | 2 | 4 09 4 |
| 4 | PC | EE203 | Electronic Devices | 3 | 0 | 2 | 4 09 4 |
| 5 | SBC | EE204 | Network Theory | 3 | 0 | 2 | 4 09 4 |
| 6 | SBC | AS201 | Electronic Instruments and Measurement Lab | 0 | 1 | 2 | 2 05 2 |
| 7 | ABL | SVXX-STXX | Communication Skills | 1 | 0 | 2 | 2 05 2 |
| 8 | HSSE | HSEXX | SEVA II or III /SATVA II or III | 0 | 0 | 0 | 0 03 1 |
| | | | HSS-I | 2 | 0 | 0 | 3 05 2 |
| | | | TOTAL | 14 | 1 | 12 | 24 54 22 |

*Only for Lateral Entry Students

| Semester IV | | | | | | | |
|-------------|------|-----------|--------------------------------------|-----------|----------|----------|-----------------|
| No | Type | Code | Course | L | T | P | O |
| 1 | BSC | MA203 | Probability and Stochastic Processes | 3 | 0 | 0 | 5 08 3 |
| 2 | PC | ET202 | Foundation of Mathematics-II | 2 | 1 | 0 | 6 09 3 |
| 3 | PC | EE205 | Analog Circuits | 3 | 0 | 2 | 6 11 4 |
| 4 | PC | EE206 | Microcontrollers | 3 | 0 | 2 | 6 11 4 |
| 5 | PC | EE207 | Signals and Systems | 3 | 0 | 2 | 6 11 4 |
| 6 | SBC | EE208 | Mini Project-I | 0 | 0 | 0 | 4 04 2 |
| 7 | ABL | SVXX-STXX | SEVA II or III /SATVA II or III | 0 | 0 | 0 | 3 01 1 |
| 8 | HSSE | HSEX2 | HSS-II | 2 | 0 | 0 | 3 05 2 |
| | S/M | SCX1/MNX1 | SCOPE-I/Minor-I | | | | 3 |
| | | | TOTAL | 14 | 0 | 6 | 33 51 20 |

*Only for Lateral Entry Students

| Second Semester for HSC students | | | | | | | |
|----------------------------------|------|-------|-----------------------|---|---|---|----------|
| No | Type | Code | Course | L | T | P | O |
| 1 | MLC | AS202 | Constitution of India | | | | 06 06 NC |

| Second Semester (For Lateral Entry Students) | | | | | | | |
|--|------|-------|--------------------------------------|---|---|---|----------|
| No | Type | Code | Course | L | T | P | O |
| 1 | BSC | MA201 | Linear Algebra | 2 | 0 | 2 | 5 09 3 |
| 1 | BSC | MA203 | Probability and Stochastic Processes | 3 | 0 | 0 | 5 08 3 |
| 2 | MLC | AS202 | Constitution of India | | | | 06 06 NC |



Seawell

| Second Summer (For Lateral Entry Students) | | | | | | | |
|--|------|-------|--------------------------------------|---|---|----|--------|
| No | Type | Code | Course | L | T | P | O E C |
| 1 | BSC | MA201 | Linear Algebra | 2 | 0 | 2 | 5 09 3 |
| 1 | BSC | MA203 | Probability and Stochastic Processes | 3 | 0 | 0 | 5 08 3 |
| 2 | MLC | AS202 | Constitution of India | | | 06 | 06 NC |

| Sem V | | | | | | | |
|-------|------|-----------|----------------------------------|---|---|---|--------|
| No | Type | Code | Course | L | T | P | O E C |
| 1 | PC | ET301 | Analog and Digital Communication | 3 | 0 | 2 | 6 11 4 |
| 2 | PC | ET302 | Control Systems | 3 | 0 | 2 | 6 11 4 |
| 3 | PC | ET303 | Digital Signal Processing | 3 | 0 | 2 | 5 10 4 |
| 4 | PC | ET304 | Electromagnetic Waves | 3 | 0 | 2 | 5 10 4 |
| 5 | SBC | ET305 | Java Programming Lab | 0 | 1 | 2 | 2 05 2 |
| 6 | ABL | SVXX/STXX | SEVA II or III /SATVA II or III | 0 | 0 | 0 | 2 02 1 |
| 7 | HSSE | HSEX3 | HSS-III | 2 | 0 | 0 | 3 05 2 |
| 8 | S/M | SCX2/MNX2 | SCOPE-II/Minor-II | | | | 3 |
| | | | TOTAL | | | | 21 |

| Sem VI (Cat 1- For Students who have NOT preferred semester long internship) | | | | | | | |
|--|------|-----------|-----------------------------------|---|---|---|--------|
| No | Type | Code | Course | L | T | P | O E C |
| 1 | OE | OEXXX | Open Elective-I | | | | 3 |
| 2 | PC | ET306 | Power Electronics | 3 | 0 | 2 | 6 11 4 |
| 3 | PC | ET307 | Data Communication and Networking | 3 | 0 | 2 | 6 11 4 |
| 4 | PE | ET3X1 | PE-I | | | | 3 |
| 5 | PE | ET3X2 | PE-II | | | | 3 |
| 6 | SBC | ET308 | Mini Project-II | | | | 3 |
| 7 | ABL | SVXX/STXX | SEVA II or III /SATVA II or III | 0 | 0 | 0 | 2 02 1 |
| 8 | S/M | SCX3/MNX3 | SCOPE-III/Minor-III | | | | 3 |
| | | | | | | | 21 |

| Sem VI (Cat 2-For Students who have preferred semester long internship) | | | | | | | |
|---|------|-----------|---|---|---|---|-------|
| No | Type | Code | Course | L | T | P | O E C |
| 1 | PE* | ET3X1 | PE-I | | | | 3 |
| 2 | PE* | ET3X2 | PE-II | | | | 3 |
| 4 | SBC | ET310 | Industry Internship | | | | 15 |
| 5 | S/M* | SCXX/MNXX | SCOPE-III/Minor-III | | | | 3 |
| | | | *To be completed online mode or allied courses from MOOCs | | | | 21 |



Benzilip

| Sem VII | | | | L | T | P | O | E | C |
|---------|-------|--------------------|----------------------------|---|---|---|---|---|----|
| No | Type | Code | Course | | | | | | 3 |
| 1 | OE | OEXXX | OE-II | | | | | | 3 |
| 2 | OE | OEXXX | OE-III* | | | | | | 3 |
| 3 | PE | ET4X3 | PE-III | | | | | | 3 |
| 4 | PE | ET4X4 | PE-IV | | | | | | 2 |
| 5 | SBC | ET401 | Main Project Stage-I | | | | | | 2 |
| 6 | ABL | SV4X/ST4X | SEVA-IV/SATVA-IV | | | | | | 3 |
| 7 | S/M/H | SC4X/MN4X/ HOXX | SCOPE-IV/Minor-IV/Honors-I | | | | | | |
| | | | TOTAL | | | | | | 16 |

*OE-III must be from Basic Science Elective or Engineering Science Elective

| Sem VIII (Option A : Cat1/Cat2) | | | | L | T | P | O | E | C |
|---------------------------------|------|-----------|--|---|---|---|---|---|------|
| No | Type | Code | Course | | | | | | 3 |
| 1 | OE * | OEHXX | OE-IV | | | | | | 3 |
| 2 | PE | ET4X5 | PE-V | | | | | | 3 |
| 3 | PE | ET4X6 | PE-VI | | | | | | 3 |
| 4 | SBC | ET402 | Main Project Stage-II | | | | | | 12 6 |
| 5 | ABL | SV4X/ST4X | SEVA-IV/SATVA-IV | | | | | | 04 2 |
| 6 | H | HOXX | Honors-II | | | | | | 3 |
| | | | *May be taken from MOOCs, Essentially Humanities, Management related | | | | | | |
| | | | TOTAL | | | | | | 17 |

| Sem VIII (Option B : Only for Cat1 students) | | | | L | T | P | O | E | C |
|--|------|-----------|--|---|---|---|---|---|-------|
| No | Type | Code | Course | | | | | | 36 16 |
| 2 | SBC | ET403 | Main Project Stage-II | | | | | | 36 16 |
| 3 | ABL | SV4X/ST4X | SEVA-IV/SATVA-IV | | | | | | 04 1 |
| 4 | H | HOXX | Honors-II | | | | | | 3 |
| | | | *May be taken from MOOCs, Essentially Humanities, Management related | | | | | | |
| | | | TOTAL | | | | | | 17 |



Bennell

PROGRAM ELECTIVE COURSES

Assumptions:

- Some elective courses may be of interest to the students of both the branches.
- 4 Electives are sufficient to specialize in a particular vertical/thread area.

| PE/TD | PE1 | PE2 | PE3 | PE4 | PE5 | PE6 |
|----------|--|---|--|--|--|--|
| THREAD 1 | 1T11 | 1T12 | 1T13 | 1T14 | 1T11,1T12 | 1T11,1T12 |
| THREAD 2 | 1T21 | 1T22 | 1T23 | 1T24 | 1T21,1T22 | 1T21,1T22 |
| GENERAL | 1T11,1T12, 1T21,1T22, 1X,1Y,2X, 2Y 2T11,2T12, 2T21,2T22 | 1T11,1T12, 1T21,1T22, 1X,1Y,2X 2Y 2T11,2T12, 2T21,2T22 | 1T13,1T23, 1T23,2T23, 1P,1Q,2P 2Q | 1T13,1T23, 1T23,2T23, 1P,1Q,2P 2Q | 1X,2X,1Y,2Y 2T11,2T12, 2T21,2T22 | 1X,2X,1Y,2Y 2T11,2T12, 2T21,2T22 |

In this case the N^o Department has to offer 1T11,1T12,1T21,1T22,1X,1Y,
1T13,1T23,1T14,1T24,1P,1Q,2P,2Q i.e. 12 Courses to take care of 6 Elective Baskets.

Sample ETRX Programme Elective Threads

| PE/TD | PE1 | PE2 | PE3 | PE4 | PE5 | PE6 |
|---|--|---|---|---|--|--|
| THREAD 1 VLSI & Embedded Systems | 1T11-Digital CMOS VLSI Design | 1T12 Embedded Systems | 1T13: Real Time Operating Systems | 1T14: Analog CMOS VLSI Design | 1T11,1T12, 1T21,1T22, 1X,2X,1Y,2Y 2T11,2T12, 2T21,2T22 | 1T11,1T12, 1T21,1T22, 1X,2X,1Y,2Y 2T11,2T12, 2T21,2T22 |
| THREAD 2: Signal Processing | 1T21 Speech and Audio Processing | 1T22: DSP Processors | 1T23: Image Processing | 1T24: Principles Soft Computing | | |
| GENERAL | 1T11,1T12, 1T21,1T22, 1X,1Y,2X, 2Y 2T11,2T12, 2T21,2T22 | 1T11,1T12, 1T21,1T22, 1X,1Y,2X 2Y 2T11,2T12, 2T21,2T22 | 1T13,1T23, 2T13,2T23, 1P,1Q,2P, 2Q | 1T13,1T23, 2T13,2T23, 1P,1Q,2P, 2Q | | |

Rishi
Dr. Rakesh Guleria

Dean Acad.
Shrikrishna Vidya Peeth
Sardar Patel Institute of
Mumbai Nagar, Andheri (W) Mumbai - 400 058



Course Code Format for PROGRAM CORE, PROGRAM ELECTIVES, LAB COURSES, etc

| | | |
|--|--------------------------------------|--|
| Two letters to describe the department offering the course | This digit to indicate year of study | These digits to indicate the course number, or track and course number |
|--|--------------------------------------|--|

First TWO letters

| | | | |
|----|---------------------------------|----|--------------------------------|
| AS | Sciences and First year courses | IT | Information Technology |
| CS | Computer | OE | Open Elective |
| ET | Electronics | HS | Humanities and Social Sciences |
| EC | Electronics and communication | MN | Minor Program courses |
| HO | Honors Courses | SC | Scope Certification courses |
| MC | MCA | PD | PG Diploma |
| IN | Institute | MO | MOOC's |

Third Digit

| | |
|---------------------------------|---|
| First year | 1 |
| Second year | 2 |
| Third year | 3 |
| Fourth year | 4 |
| M.Tech/MCA 1 st year | 5 |
| M.Tech/MCA 2 nd year | 6 |
| PhD course | 7 |
| PG Diploma | 8 |

Format for Open Elective Course codes

| O | E | X | X | X |
|--|---|--|---|--|
| These two letters represent open elective course | | Two letters to describe the department offering the course | | This digit represents the number of the course |





Priya Deshpande <priya.chimurkar@spit.ac.in>

Syllabus Committee for ETRX and ECE Common Courses (AY 2020-21)

Deepak Karia <deepak_karia@spit.ac.in>

Tue, Jul 7, 2020 at 5:55 PM

To: etrx@spit.ac.in, swapnali.kurhade@spit.ac.in, Nida Bakareywala <nida@spit.ac.in>, meghana_naik

<meghana_naik@spit.ac.in>, Chandrashekhar Gajbhiye <gajbhiye.spit@gmail.com>

Cc: Rita Das <rita_das@spit.ac.in>, Prasenjit Bhavathankar <pbhavathankar@gmail.com>, Rajendra Sular

<rajendra_sular@spit.ac.in>, Yerramreddy Srinivasa Rao <ysrao@spit.ac.in>, "Dr. B. N. Chaudhari" <bnc@spit.ac.in>

Dear Sir/Madam,

With reference to various discussions and inputs received, both ECE and ETRX departments have agreed on common courses and syllabus from sem III to sem V (wef AY 2020-21).

So I hereby request the Convener/Experts of the respective subjects to coordinate and comply at the earliest (preferably before this weekend). Dr.Sular will be sharing the template shortly.

Kindly find the attachments for your kind perusal.

With Warm Regards,

--
 Dr. D.C.Karia, Ph.D. (VJTI)
 Associate Professor & HoD
 Department of Electronics Engineering
 Sardar Patel Institute of Technology

Email:deepak_karia@spit.ac.in,deepakckaria@gmail.com
 Tel: 022-26708520/26287250 (Ext:315).

Vision of the Department:

"To create professionally competent engineers, researchers and entrepreneurs in the field of Electronics Engineering for the benefit of society"

Mission of the Department:

- To impart quality engineering education as per the industry need
- To motivate students to undertake research on next generation technologies
- To create an environment that shall foster growth of professionals capable of effectively using the scientific and technical knowledge for the betterment of mankind

2 attachments

EXTC_ETRX_UG Curriculum at SPIT_7july2020.docx
65K

EXTC_ETRX_Sem III, Sem IV and Sem V_UG Curriculum at SPIT_7july2020.doc
59K

D. Karia
Head of the Department
 Department of Electronics Engineering
 Sardar Patel Institute of Technology,
 Munshi Nagar, Andheri (West),
 Mumbai-400 058.



B. N. Chaudhari



Deepak Karia <deepak_karia@spit.ac.in>

BoS Meeting _ETRX_EXTC DEPARTMENTS for AY 2020-2021, 28th July 2020, afternoon 12pm

3 messages

deepak_karia@spit.ac.in <deepak_karia@spit.ac.in>

Tue, Jul 28, 2020 at 11:44 AM

Reply-To: deepak_karia@spit.ac.in

To: mbpatil@ee.itb.ac.in, sneha weakey <sneha_15weakey@spit.ac.in>, rrs1902@gmail.com, zsaquib@gmail.com, dssawant1@gmail.com, payal_shah@spit.ac.in, prashant_kasambe@spit.ac.in, meghana_naik@spit.ac.in, bharat@virtuousenergy.com, anand_mane@spit.ac.in, ssmande@yahoo.com, nikunj_pankh@spit.ac.in, ssmande1@gmail.com, sukanya_kulkarni@spit.ac.in, bnc@spit.ac.in, abhijit5october@gmail.com, dnyanesh.kamble74@gmail.com, priya.chimurkar@spit.ac.in, amol_deshpande@spit.ac.in, yrsrao@spit.ac.in, kiran.talele@spit.ac.in, manisha_bansode@spit.ac.in, vijaya_kamble@spit.ac.in, sunil.bhardwaj@sas.com, prathamesh.pilankar@gmail.com, sanjay.dambhare@gmail.com, kumar.a@utexas.edu, Surendra Singh Rathod <surendra_rathod@spit.ac.in>, dnyaneshwar.kamble@tcs.com, deepak_karia@spit.ac.in, pallavi_malame@spit.ac.in, kumar_khandagle@spit.ac.in, sujata_kulkarni@spit.ac.in, Jagannath Nirmal <jhnirmal@somaiya.edu>, nida@spit.ac.in, bgl@ee.itb.ac.in, gajbhiye@spit@gmail.com, rajendra_sutar@spit.ac.in, rathod.jayshree77@spit.ac.in, g_haldankar@spit.ac.in, dd_ambawade@spit.ac.in, manish_parmar@spit.ac.in, harshalsardeshmukh@gmail.com, milind_paraye@spit.ac.in, najib_ghatte@spit.ac.in, ssd.elec@coep.ac.in, reena_kumbhare@spit.ac.in, ipsita.b2911@gmail.com, akumar@ee.itb.ac.in, narendra_bhagat@spit.ac.in, bkdande@gmail.com

Gentle Reminder

BoS Meeting _ETRX_EXTC DEPARTMENTS for AY 2020-2021, 28th July 2020, afternoon 12pm

D. Karia
Dr. Deepak Karia
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 Ph: +91 98200 00058

R.R.G. Sutar
 Dr. R.R.G. Sutar
 Dean Academic
 Director Vidyavihar
 Sardar Patel Institute of Technology
 Mumbai Nagar, Andheri (W), Mumbai-58.



S. Chinchlikar



Deepak Karia <deepak_karia@spit.ac.in>

BoS Meeting _ETRX_EXTC DEPARTMENTS for AY 2020-2021, 28th July 2020, afternoon 12pm

3 messages

deepak_karia@spit.ac.in <deepak_karia@spit.ac.in>
Reply-To: deepak_karia@spit.ac.in

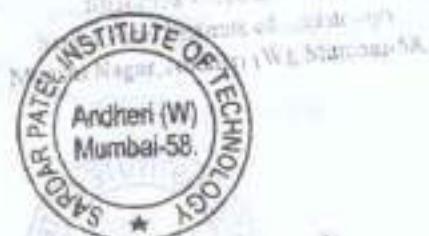
Tue, Jul 28, 2020 at 11:44 AM

To: mbpatil@ee.iitb.ac.in, sneha_weakey <sneha_15weakey@spit.ac.in>, rrs1902@gmail.com, zsaqib@gmail.com, dssawant1@gmail.com, payal_shah@spit.ac.in, prashant_kasambe@spit.ac.in, meghana_naik@spit.ac.in, bharat@virtuousenergy.com, anand_mane@spit.ac.in, ssmande@yahoo.com, nikunj_pankh@spit.ac.in, ssmande1@gmail.com, sukanya_kulkarni@spit.ac.in, bnc@spit.ac.in, abhijit5october@gmail.com, dnyanesh.kamble74@gmail.com, priya_chimurkar@spit.ac.in, amol_deshpande@spit.ac.in, yrsao@spit.ac.in, kiran.talele@spit.ac.in, manisha_bansode@spit.ac.in, vijaya_kamble@spit.ac.in, sunil.bhardwaj@sas.com, prathamesh.pilankar@gmail.com, sanjay.dambhare@gmail.com, kumar.a@utexas.edu, Surendra Singh Rathod <surendra_rathod@spit.ac.in>, dnyaneshwar.kamble@tcs.com, deepak_karia@spit.ac.in, pallavi_malame@spit.ac.in, kumar_khandagle@spit.ac.in, sujata_kulkarni@spit.ac.in, Jagannath Nirmal <jhnirmal@somaya.edu>, nida@spit.ac.in, bgf@ee.iitb.ac.in, gajbhiye_spit@gmail.com, rajendra_sutar@spit.ac.in, rathod.jayshree77@spit.ac.in, g_haldankar@spit.ac.in, dd_ambawade@spit.ac.in, manish_parmar@spit.ac.in, harshalsardeshmukh@gmail.com, milind_paraye@spit.ac.in, naejib_ghazze@spit.ac.in, ssd.elec@coep.ac.in, reena_kumbhare@spit.ac.in, ipsita.b2911@gmail.com, akumar@ee.iitb.ac.in, narendra_bhagat@spit.ac.in, tklande@gmail.com

Gentle Reminder

BoS Meeting _ETRX_EXTC DEPARTMENTS for AY 2020-2021, 28th July 2020, afternoon 12pm

D. Karia
Dr. Deepak Karia
M.E., M.D. (VJTI Mumbai)
Head of Electronics Engineering Department
S. V. Vidya Mandir
Mumbai - 400058, India
Mobile: +91 9822111111, +91 9822111111



R. S.
Dr. R.C. Gutte
Dean Academic

R.S.

Ipsita Bhattacharya <ipsita.b2911@gmail.com>
To: Deepak Karia <deepak_karia@spit.ac.in>

Tue, Jul 28, 2020 at 12:10 PM

Dear Sir,

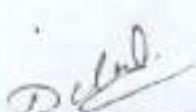
Apologies for logging out and logging in multiple times, there was some network issue. Also, initially by mistake I had logged in using my mother's account. Have logged in using my ID now.

Thanks and regards,
Ipsita

On Tue, Jul 28, 2020, 11:44 <deepak_karia@spit.ac.in> wrote:

Gentle Reminder

**BoS Meeting _ETRX_EXTC DEPARTMENTS for AY 2020-2021, 28th July
2020, afternoon 12pm**


Dr. Deepak Karia
M.E., Ph.D. (VJTI Mumbai)
Head of Electronics Engineering Department
Bharatiya Vidya Bhawan
Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W), Mumbai - 400 058




Smita

When Tue Jul 28, 2020 12pm – 1pm India Standard Time - Kolkata

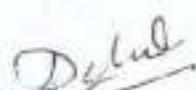
Joining info Join with Google Meet
meet.google.com/mgm-tcss-msv

Join by phone

+91 402-761-0144 (PIN: 369348960)

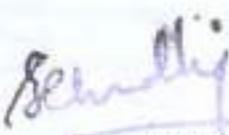
Who

- deepak_karia@spit.ac.in · organizer
- bnc@spit.ac.in
- Sudhakar Mande
- Chandrashekhar Gajbhiye
- yrsrao@spit.ac.in
- Electronics
- rathod.jayshree77@spit.ac.in
- priya.chimurkar@spit.ac.in
- p_haldankar@spit.ac.in
- Surendra Singh Rathod
- prashant_kasambe@spit.ac.in
- payal_shah@spit.ac.in
- najib_ghatne@spit.ac.in
- manisha_bansode@spit.ac.in
- narendra_bhagat@spit.ac.in
- kumar_khandagle@spit.ac.in
- rajendra_sutar@spit.ac.in
- kirantalele@spit.ac.in
- nikun_parikh@spit.ac.in
- meghana_naik@spit.ac.in
- Sanjay.dambhare@gmail.com
- Rajendra Sawant
- bgf@ee.itb.ac.in
- abhijit_gokhale
- Ipsita Bhattacharya
- Prof. B. K. Lande
- nida@spit.ac.in
- amol_deshpande@spit.ac.in
- marish_parmar@spit.ac.in
- milind_paraye@spit.ac.in
- pallavi_malame@spit.ac.in
- dd_ambawade@spit.ac.in
- anand_mane@spit.ac.in
- sukanya_kulkarni@spit.ac.in
- sneha_wipakey
- reena_kumbhare@spit.ac.in
- sujata_kulkarni@spit.ac.in
- vijaya_kamble@spit.ac.in
- dnyaneshwar.kamble@tcs.com
- sunil.bhardwaj@sas.com



Dr. Deepak Karia

M.E., Ph.D. (VITI Mumbai)
 Head of Electronics Engineering Department
 Shanty Vidyavihar
 Sardar Patel Institute of Technology
 Andheri (W), Mumbai - 400 069

Secretary

16/01/21, 2:53 pm

Ipsita Bhattacharya <ipsita.b2911@gmail.com>
 To: Deepak Karia <deepak_karia@spit.ac.in>

Tue, Jul 28, 2020 at 12:10 PM

Dear Sir,

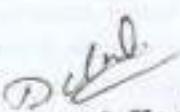
Apologies for logging out and logging in multiple times, there was some network issue. Also, initially by mistake I had logged in using my mother's account. Have logged in using my ID now.

Thanks and regards,
 Ipsita

On Tue, Jul 28, 2020, 11:44 <deepak_karia@spit.ac.in> wrote:

Gentle Reminder

**BoS Meeting _ETRX_EXTC DEPARTMENTS for AY 2020-2021, 28th July
 2020, afternoon 12pm**


Dr. Deepak Karia
 M.E., Ph.D. (VJTI Mumbai)
 Head of Electronics Engineering Department
 Bharatiya Vidya Bhawan's
 Sardar Patel Institute of Technology
 Munshi Nagar, Andheri (W), Mumbai - 400 058.



 16/01/21, 2:53 pm

Sanjay S Dambhare <ssd.elec@coop.ac.in>
 To: "deepak_karia@spit.ac.in" <deepak_karia@spit.ac.in>

Tue, Aug 18, 2020 at 1:46 AM

Thank you very much Sir.
 Pl. see my bank details for the honorarium, as requested
 regards

Dr Sanjay Dambhare (M. Tech & Ph.D.-IITB, SM IEEE)
 Professor and Head, PI- COE SRES
 Department of Electrical Engineering
 College of Engineering, Shivajinagar, Pune, INDIA - 411 005
 Ph. +9120 25507127, Fax: +91 20 25507299
 Mo. +91 9420697868, Email: sanjay.dambhare@gmail.com

From: Google Calendar <calendar-notification@google.com> on behalf of deepak_karia@spit.ac.in <deepak_karia@spit.ac.in>
Sent: 28 July 2020 11:44
To: mbpatil@ee.iitb.ac.in <mbpatil@ee.iitb.ac.in>; sneha_weakey <sneha_15weakey@spit.ac.in>; rrs1902@gmail.com <rrs1902@gmail.com>; zsaquib@gmail.com <zsaquib@gmail.com>; dssawant1@gmail.com <dssawant1@gmail.com>; payal_shah@spit.ac.in <payal_shah@spit.ac.in>; prashant_kasambe@spit.ac.in <prashant_kasambe@spit.ac.in>; meghana_naik@spit.ac.in <meghana_naik@spit.ac.in>; bharat@virtuousenergy.com <bharat@virtuousenergy.com>; anand_mane@spit.ac.in <anand_mane@spit.ac.in>; ssmande@yahoo.com <ssmande@yahoo.com>; nikunj_parikh@spit.ac.in <nikunj_parikh@spit.ac.in>; ssmande1@gmail.com <ssmande1@gmail.com>; sukanya_kulkarni@spit.ac.in <sukanya_kulkarni@spit.ac.in>; abhijit5october@gmail.com <abhijit5october@gmail.com>; dnyanesh.kamble74@gmail.com <dnyanesh.kamble74@gmail.com>; pnya.chimurkar@spit.ac.in <pnya.chimurkar@spit.ac.in>; priya.chimurkar@spit.ac.in <priya.chimurkar@spit.ac.in>; amol_deshpando@spit.ac.in <amol_deshpando@spit.ac.in>; ysrao@spit.ac.in <ysrao@spit.ac.in>; kiran.talele@spit.ac.in <kiran.talele@spit.ac.in>; manisha_bansode@spit.ac.in <manisha_bansode@spit.ac.in>; vijaya_kamble@spit.ac.in <vijaya_kamble@spit.ac.in>; sunil.bhardwaj@sas.com <sunil.bhardwaj@sas.com>; prathamesh.pilankar@gmail.com <prathamesh.pilankar@gmail.com>; sanjay.dambhare@gmail.com <sanjay.dambhare@gmail.com>; kumar.a@utexas.edu <kumar.a@utexas.edu>; Surendra Singh Rathod <surendra_rathod@spit.ac.in>; dnyaneshwar.kamble@tcs.com <dnyaneshwar.kamble@tcs.com>; deepak_karia@spit.ac.in <deepak_karia@spit.ac.in>; pallavi_malame@spit.ac.in <pallavi_malame@spit.ac.in>; kumar_khandagle@spit.ac.in <kumar_khandagle@spit.ac.in>; sujata_kulkarni@spit.ac.in <sujata_kulkarni@spit.ac.in>; Jagannath Nirmal <jnirmal@somaiya.edu>; nida@spit.ac.in <nida@spit.ac.in>; bgt@ee.iitb.ac.in <bgt@ee.iitb.ac.in>; gajbhiye.spit@gmail.com <gajbhiye.spit@gmail.com>; rajendra_sutar@spit.ac.in <rajendra_sutar@spit.ac.in>; rathod.jayshree77@spit.ac.in <rathod.jayshree77@spit.ac.in>; g_haldankar@spit.ac.in <g_haldankar@spit.ac.in>; dd_ambawade@spit.ac.in <dd_ambawade@spit.ac.in>; %



Sanjay

16/01/21, 2:53 pm

manish_parmar@spit.ac.in <manish_parmar@spit.ac.in>; harshalsardeshmukh@gmail.com
<harshalsardeshmukh@gmail.com>; milind_paraye@spit.ac.in
<milind_paraye@spit.ac.in>; najib_ghatte@spit.ac.in <najib_ghatte@spit.ac.in>; Sanjay S
Dambhare <ssd.elec@coep.ac.in>; reena_kumbhare@spit.ac.in
<reena_kumbhare@spit.ac.in>; ipsita.b2911@gmail.com <ipsita.b2911@gmail.com>;
akumar@ee.iitb.ac.in <akumar@ee.iitb.ac.in>; narendra_bhagat@spit.ac.in
<narendra_bhagat@spit.ac.in>; bklande@gmail.com <bklande@gmail.com>
Subject: BoS Meeting _ETRX_EXTC DEPARTMENTS for AY 2020-2021, 28th July
2020, afternoon 12pm

[Quoted text hidden]

Sanjay-Dambhare-SBI-Details.xlsx
10K

Diluv
Dr. Deepak Karte
M.E., Ph.D. IIT JTI Mumbai
Head of Chemical Engineering Department
Bawaliwala Wing E-202
Sardar Patel Institute of Technology
Worli, Mumbai - 400 050



R.E

Bernadine





Deepak Karia <deepak_karia@spit.ac.in>

Invitation as a member of BoS

3 messages

Deepak Karia <deepak_karia@spit.ac.in>
 To: ssmande@yahoo.com, Sudhakar Mande <ssmande1@gmail.com>
 Cc: Rajendra Sutar <rajendra_sutar@spit.ac.in>

Sun, Dec 8, 2019 at 10:02 AM

Dear Sir,
 It is our pleasure to have you as an expert nominated by the Vice-Chancellor, UoM for 'Board of Studies' (BoS) of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri (West), Mumbai.
 Please find the attached appointment letter as member of BoS for the reference. Let me hereby request you to communicate your acknowledgement by sending a reply to this email.

Thanking you,

With Warm Regards,

Dr. D.C.Karia, Ph.D. (VJTI)
 Associate Professor & HoD
 Department of Electronics Engineering
 Sardar Patel Institute of Technology
 Email: deepak_karia@spit.ac.in, deepakckaria@gmail.com
 Tel: 022-26708520/26287250 (Ext:315).

Vision of the Department:

"To create professionally competent engineers, researchers and entrepreneurs in the field of Electronics Engineering for the benefit of society"

[BoS invitation letters \[Dr. Mande\].pdf](#)
265K

Sudhakar Mande <ssmande1@gmail.com>
 To: Deepak Karia <deepak_karia@spit.ac.in>
 Cc: Sudhakar Mande <ssmande@yahoo.com>, Rajendra Sutar <rajendra_sutar@spit.ac.in>

Sun, Dec 8, 2019 at 11:28 AM

Dear All,

Thank you so much for your email. I am very happy to know that I am being nominated as member of BoS in Electronics Engineering at your prestigious institute. I accept this invitation and I will try my best to contribute towards academics for overall quality improvement.

Thanks and Regards
 Dr Sudhakar Mande
 [Quoted text hidden]

Deepak Karia <deepak_karia@spit.ac.in>

Sun, Dec 8, 2019 at 12:14 PM



16/01/21, 3:11 pm



Deepak Karia <deepak_karia@spit.ac.in>

Re: BoS_ETRX Department, SPIT

3 messages

Deepak Karia <deepak_karia@spit.ac.in>

Sun, Jul 26, 2020 at 12:36 PM

To: Sudhakar Mande <ssmande@yahoo.com>, Sudhakar Mande <ssmande1@gmail.com>

Cc: Rajendra Sutar <rajendra_sutar@spit.ac.in>

Dear Sir,

Greetings of the Day!! Hope you are keeping well.

The Electronics Department has scheduled BoS to be conducted on Tuesday, 28th July 2020 at 9.30am via Google Meet.

I hereby request you to kindly confirm your availability and presence for the same.

With Warm Regards,

Dr. D.C.Karia, Ph.D. (VJTI)
 Associate Professor & HoD
 Department of Electronics Engineering
 Sardar Patel Institute of Technology
 Email:deepak_karia@spit.ac.in,deepakckaria@gmail.com
 Tel: 022-26708520/26287250 (Ext:315).

Vision of the Department:

"To create professionally competent engineers, researchers and entrepreneurs in the field of Electronics Engineering for the benefit of society"

Mission of the Department:

- To impart quality engineering education as per the industry need
- To motivate students to undertake research on next generation technologies
- To create an environment that shall foster growth of professionals capable of effectively using the scientific and technical knowledge for the betterment of mankind

Sudhakar Mande <ssmande@yahoo.com>

Sun, Jul 26, 2020 at 12:50 PM

Reply-To: "ssmande@yahoo.com" <ssmande@yahoo.com>

To: Deepak Karia <deepak_karia@spit.ac.in>, Sudhakar Mande <ssmande1@gmail.com>

Cc: Rajendra Sutar <rajendra_sutar@spit.ac.in>

Dear Sir

Thanks for invitation. I will be available.

Regards

Dr Sudhakar Mande

Sent from Yahoo Mail on Android
(Dictated text hidden)

D.C.Karia
Dr. Deepak Karia
 M.E., Ph.D. (VJTI) *[Signature]*
 Head of Electronics Engineering Department
 Sardar Patel Institute of Technology
 Vile Parle (W), Mumbai - 400058
[Signature]

16/01/21, 3:10 pm



Deepak Karia <deepak_karia@spit.ac.in>

List of Examiners & Honorarium

1 message

Yerramreddy Srinivasa Rao <cysrao@spit.ac.in>
 To: Pallavi More <pallavi_more@spit.ac.in>
 Cc: Ujwala G <ujwalag@spit.ac.in>, Sangita Fernandes <sangita2006@spit.ac.in>, "Dr. B. N. Chaudhari" <bnc@spit.ac.in>, hdo@spit.ac.in

Wed, Sep 9, 2020 at 10:05 AM

Dear Pallavi,

Please refer the attachment for the list of Experts/Examiners who have attended PhD progress seminar & Board of Studies meetings. We need to pay them honorarium as per the institute norms.

—
Regards,

Dr. Y S Rao, PhD (ES-IIT-Bombay)
 Vice-Principal,
 Sardar Patel Institute of Technology,
 Munshi Nagar, Bhavans Campus, Andheri (W), Mumbai-58
 022-26708520/2628 7250 (Ext: 380).
 Mob: 9820952870

Lecture Videos: <https://www.youtube.com/user/EMTRONTechnologies>

S.P.I.T. Vision

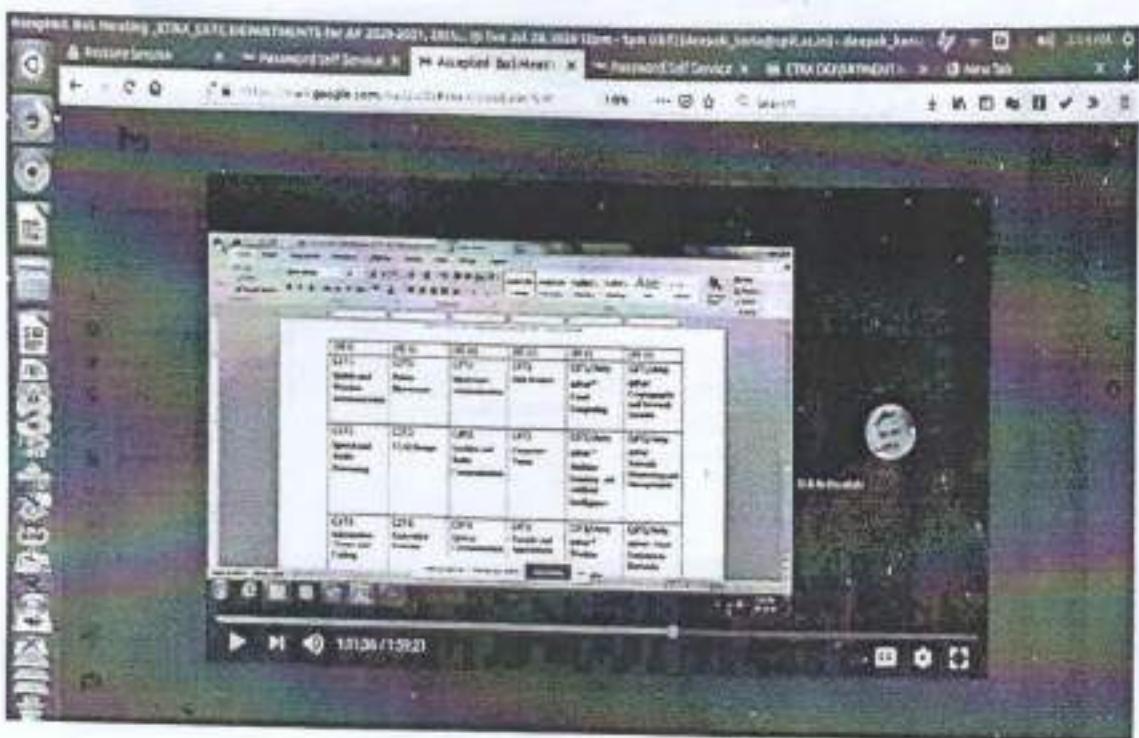
To build a renowned institute which will produce graduate engineers with global competency and social sensitivity.

[PhD Examiners_BoS_Experts Remuneration May to August 2020.pdf](#)
 332K

D.C.K
Dr. Deepak Karia
 M.E., Ph.D. (VJTI Mumbai)
 Head of Electronics Engineering Department
 Bharatiya Vidya Bhavan's
 S.P.I.T. * Institute of Technology
 Munshi Nagar, Andheri (W), Mumbai - 400 058.



Sehdev

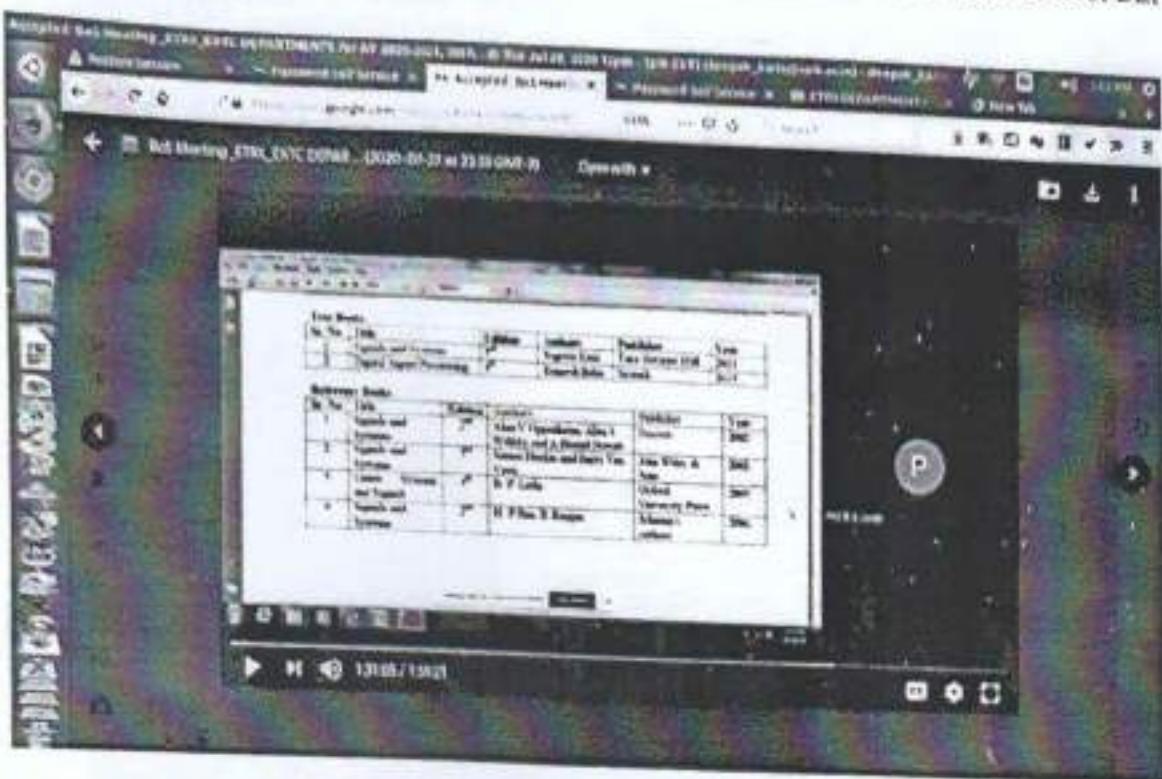


D.C.Karia

Dr. Deepak Karia
M.E., Ph.D. (VJTI Mumbai)
Head of Electronics Engineering Department
Shrawan Vidyabhavan's
Saroj Patel Institute of Technology
Mumbai Nagar, Andheri (W), Mumbai - 400 058.

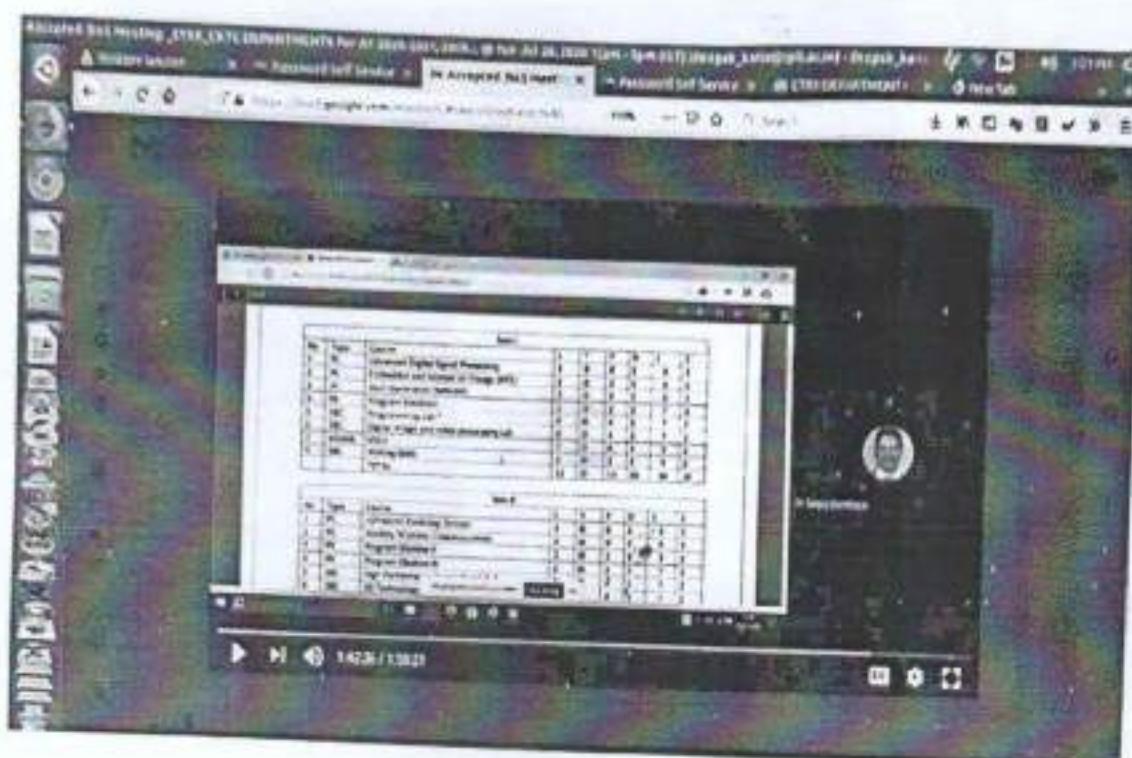


Sambit →



D. Karia
Dr. Deepak Karia
 M.E. (E.I.D. IVJII & subbed)
 Head of Electronics Engineering Department,
 Shantiniketan Vidya Bhawan
 Institute of Technology
 Andheri (W), Mumbai - 400 058.



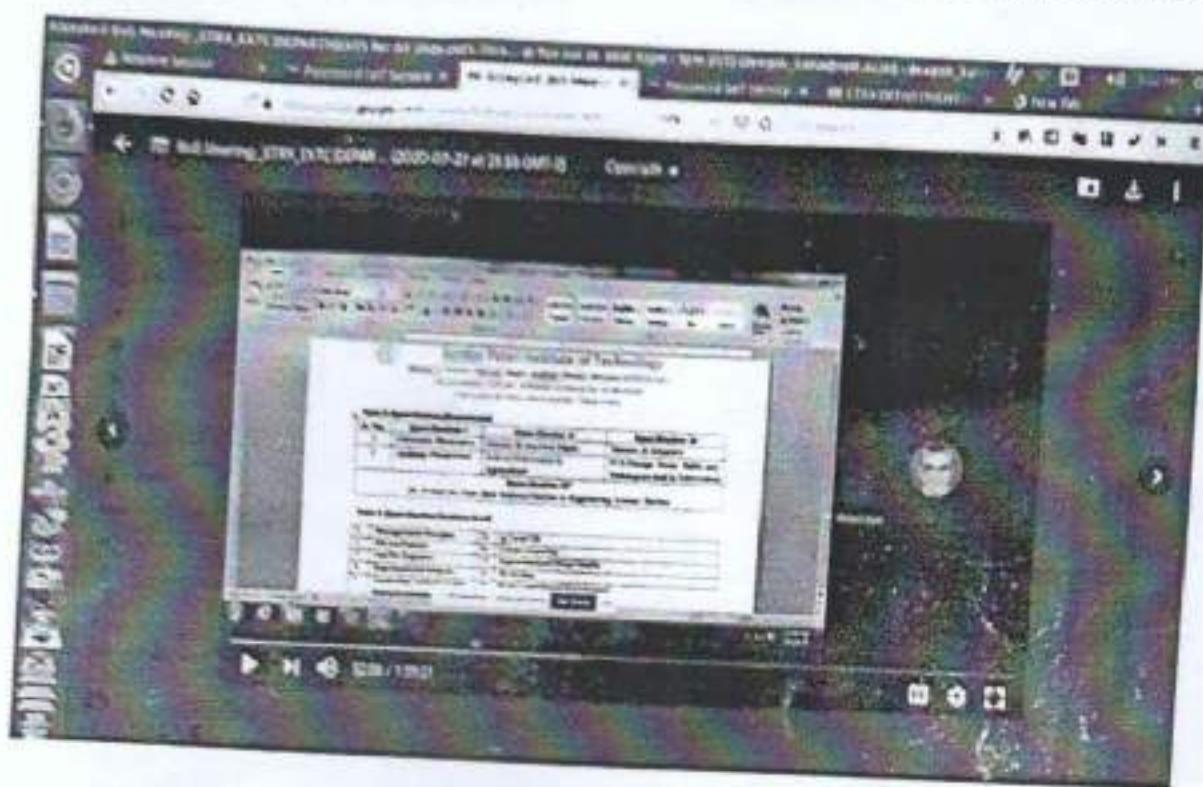


D. K. Karla
 Dr. Deepak Karla
 M.E., P.E. (WJT), Mumbai
 Head of Electronics & Telecomm. Department
 Bharatiya Vidya Bhawan's
 Sardar Patel Institute of Technology
 Munshi Nagar, Andheri (W), Mumbai - 400 058.



P.S.

Sekharia



D. Karia

Dr. Deepak Karia

M.E., Ph.D. (VJTI - 2000-01)
Head of Electronics Engineering Department
SARDAR PATEL INSTITUTE OF TECHNOLOGY

Mumbai - 400 058, Maharashtra - 400 058



RJ

Sekharia



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai - 400058 India
(Autonomous Institute Affiliated to University of Mumbai)

Board of Studies (BoS) of Department of Electronics and Telecommunication Engineering Year 2019-20

| Sr. No. | Designation | Name |
|---------|--|---|
| 1 | Chairman (Head of the Department) | Dr. Reena S. Sonkute |
| 2 | Faculty as per Specialization | Dr. Y. S. Rao Dr. Sukanya Kulkarni Prof. D. D. Ambawade Dr. Prasanna Chapekar Mr. Dnyaneshwar Kamble Dr. Kumar Appiah |
| 3 | Three subject experts from outside the parent university to be nominated by the Academic Council | Dr. Nirmal Jagannath |
| 4 | One expert nominated by the vice-chancellor | Dr. Sunil Bhardwaj |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Dr. Zia Saquib Mr. Harshal Sardeshmukh Mr. Prathamesh Pilankar |
| 6 | One graduate meritorious alumnus | Mr. Sagar Sawant Dr. B G Fernandes Dr. M B Patil |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. Sanjay Dambare Dr. Sujata Kulkarni Prof. Manish Parmar Prof. Sukanya Kulkarni Prof. A D Mane Prof. Vijaya Kambale Dr. Amol Deshpande Prof. Milind Paraye Prof. Pallavi Malame Prof. Sneha Weakey |
| 8 | Other members of staff of the same faculty | |

R. Sonkute

Head
Department of Electronics and Telecommunication
Engineering

Principal
Sardar Patel Institute of Technology



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

2019-20

Scheme for First Year B.Tech (2019-20)

Total Credits: 160 credits with SEM VIII Internship

Effective for students admitted in first year in Academic Year 2019-20

Group I: Computer Engineering and Information Technology

| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|--|-------|----------------------------|---|--------|---------|
| | | | L | T | P | |
| BS11 | Linear Algebra & Differential Calculus | BS | 3 | — | — | 3 |
| BS12 | Engineering Physics | BS | 4 | 1 | — | 5 |
| ES11 | Structured Programming Approach | ES | 3 | — | — | 3 |
| ES12 | Digital Circuits | PC | 3 | — | — | 3 |
| BSL11 | Computational Mathematics Lab-I | BS | — | — | 2 | 1 |
| BSL12 | Engineering Physics Lab | BS | — | — | 2 | 1 |
| ESL11 | Structured Programming Approach Lab | ES | — | — | 2 | 1 |
| ESL12 | Digital Circuits Lab | PC | — | — | 4(2+2) | 2 |
| ESL16 | Workshop I | ES | — | — | 2 | 1 |
| HSS11 | Communication Skills | HSS | 2 | — | 2 | 1 |
| MC21 | Environmental Studies (Non-Credit) | MC | 1 | — | — | — |
| ABL-A | Essence of Indian Traditional Knowledge (Non-Credit) | MC | 1 | — | — | — |
| Total | | | 17 | 1 | 14 | 23 |

| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|-------------|--|-------|----------------------------|---|--------|---------|
| | | | L | T | P | |
| BS21 | Differential Equations & Integral Calculus | BS | 3 | — | — | 3 |
| BS23 | Engineering Chemistry | BS | 2 | — | — | 2 |
| ES23 | Basic Electrical and Electronics Engineering | ES | 3 | — | — | 3 |
| ES24 | Engineering Graphics | ES | 2 | — | — | 2 |
| BSL21 | Computational Mathematics Lab-II | BS | — | — | 2 | 1 |
| BSL23 | Engineering Chemistry Lab | BS | — | — | 2 | 1 |
| ESL23 | Basic Electrical and Electronics Engineering Lab | ES | — | — | 2 | 1 |
| ESL24 | Engineering Graphics Lab | ES | — | — | 2 | 1 |
| ESL25 | Python Programming Lab | ES | — | — | 4(2+2) | 2 |
| ESL26 | Workshop II | ES | — | — | 2 | 1 |
| MC22 | Constitution of India (Non-Credit) | ES | — | — | 2 | 1 |
| LSC | Life Skill Courses (Non-Credit) | MC | 1 | — | — | — |
| Total | | | 12 | — | 14 | 17 |

Dean Academics



Sardar Patel
Institute of
Technology
Andheri (W)
Mumbai-58.



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Scheme for First Year B.Tech (2019-20)

Group 2: Electronics and Electronics & Telecommunication

| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|--------------|--|-------|----------------------------|-----------|-----------|-----------|
| | | | L | T | P | |
| BS11 | Linear Algebra & Differential Calculus | BS | 3 | -- | -- | 3 |
| BS13 | Engineering Chemistry | BS | 2 | -- | -- | 2 |
| ES13 | Basic Electrical Technology | ES | 3 | -- | -- | 3 |
| ES14 | Engineering Graphics | ES | 2 | -- | -- | 2 |
| BSL11 | Computational Mathematics Lab-I | BS | -- | -- | 2 | 1 |
| BSL13 | Engineering Chemistry Lab | BS | -- | -- | 2 | 1 |
| ESL13 | Basic Electrical Technology Lab | ES | -- | -- | 2 | 1 |
| ESL14 | Engineering Graphics Lab | ES | -- | -- | 4(2+2) | 2 |
| ESL15 | Python Programming Lab | ES | -- | -- | 2 | 1 |
| ESL16 | Workshop I | ES | -- | -- | 2 | 1 |
| HSS11 | Communication Skills | HSS | 2 | -- | 2 | 3 |
| MC22 | Constitution of India (Non-Credit) | MC | 1 | -- | -- | -- |
| ABL-A | Essence of Indian Traditional Knowledge (Non-Credit) | MC | 1 | -- | -- | -- |
| Total | | | 14 | -- | 16 | 20 |

| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
|--------------|--|-------|----------------------------|----------|-----------|-----------|
| | | | L | T | P | |
| BS21 | Differential Equations & Integral Calculus | BS | 3 | -- | -- | 3 |
| BS22 | Engineering Physics | BS | 4 | 1 | -- | 5 |
| ES21 | Structured Programming Approach | ES | 3 | -- | -- | 3 |
| ES22 | Digital Circuits | PC | 3 | -- | -- | 3 |
| BSL21 | Computational Mathematics Lab-II | BS | -- | -- | 2 | 1 |
| BSL22 | Engineering Physics Lab | BS | -- | -- | 2 | 1 |
| ESL21 | Structured Programming Approach Lab | ES | -- | -- | 4(2+2) | 2 |
| ESL22 | Digital Circuits Lab | PC | -- | -- | 2 | 1 |
| ESL26 | Workshop II | ES | -- | -- | 2 | 1 |
| MC21 | Environmental Studies (Non-Credit) | MC | 1 | -- | -- | -- |
| LSC | Life Skill Courses (Non-Credit) | LA | 1 | -- | -- | -- |
| Total | | | 15 | 1 | 12 | 20 |

[Signature]
Dean Academics



[Signature]

[Signature]
Principal, S.P.I.T.



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(Autonomous Institute Affiliated to University of Mumbai)

| Course Code | Course Name | Group | SEM III | | | Credits |
|-------------|--|-------|----------------------------|---|----|---------|
| | | | L | T | P | |
| BS31 | Applied Mathematics I* | BS | 3 | 1 | — | 4 |
| EL31 | Department Core-1 | PC | 3 | — | — | 3 |
| EL32 | Department Core-2 | PC | 3 | — | — | 3 |
| EL33 | Department Core-3 | PC | 3 | 1 | — | 4 |
| ELL31 | Department Core Lab-1 | PC | — | — | 2 | 1 |
| ELL32 | Department Core Lab-2 | PC | — | — | 2 | 1 |
| ELL33 | Department Core Lab-3 | PC | — | — | 2 | 1 |
| ELL34 | Object Oriented Programming Lab* | PC | — | 1 | 2 | 2 |
| BS32 | Human Health Systems Approach | BS | 1 | — | — | 1 |
| SDX | SCOPE Course (Optional) | SD | — | — | — | — |
| ABL1 | Building Automation, Fire Safety and Electronic Security | ABL | — | — | 2 | 1 |
| CEPI | Introduction to CEP (Optional) | CEP | — | — | — | — |
| BC | Fundamentals of Mathematics(Noncredit) (only for direct second year students) | BC | 2 | — | — | — |
| AC | Additional Course (For Fast Learners) | PC | 2 | — | 2 | 3 |
| Total | | | 13+2 | 3 | 10 | 21 |
| SEM IV | | | | | | |
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| | | | L | T | P | |
| BS41 | Applied Mathematics II* | BS | 3 | 1 | — | 4 |
| EL41 | Department Core-4 | PC | 3 | — | — | 3 |
| EL42 | Department Core-5 | PC | 3 | — | — | 3 |
| EL43 | Department Core-6 | PC | 3 | — | — | 3 |
| ELL41 | Department Core Lab-4 | PC | — | — | 2 | 1 |
| ELL42 | Department Core Lab-5 | PC | — | — | 2 | 1 |
| ELL43 | Department Core Lab-6 | PC | — | — | 2 | 1 |
| ELL44 | Department Core Lab-7 | PC | — | — | 2 | 1 |
| ELL45 | Department Core Lab-8 | PC | — | — | 2 | 1 |
| ELP41 | Minor Project-I | PR | — | — | 2 | 1 |
| LSC^ | Life Skill Course (Non credit) | LA | 1 | — | — | — |
| SDX | SCOPE Course (Optional) | SD | — | — | — | — |
| ABL2 | Occupational Safety & Legal Studies for Engineers | ABL | — | — | 2 | 1 |
| CEP2 | Problem solving module-I (Optional) | CEP | — | — | — | — |
| AC | Additional Course (For Fast Learners) | PC | 2 | — | 2 | 3 |
| Total | | | 13 | 1 | 14 | 20 |

Dean Academics



Sardar Patel Institute of Technology
Andheri (W) Mumbai-58.

R. U. Sh.

Principal, S.P.I.T.

Shinde

Re



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

| Course Code | Course Name | Group | SEM V | | | Credits |
|-------------|---|-------|----------------------------|----|-------|---------|
| | | | L | T | P | |
| EL51 | Department Core-7 | PC | 3 | -- | -- | 3 |
| EL52 | Department Core-8 | PC | 3 | -- | -- | 3 |
| EL53 | Department Core-9 | PC | 3 | -- | -- | 3 |
| EL54 | Department Core-10 | PC | 3 | -- | -- | 3 |
| ELL51 | Department Core Lab-9 | PC | -- | -- | 2 | 1 |
| ELL52 | Department Core Lab-10 | PC | -- | -- | 2 | 1 |
| ELL53 | Department Core Lab-11 | PC | -- | -- | 2 | 1 |
| ELL54 | Department Core Lab-12 | PC | -- | 1 | 2 | 2 |
| ELL55 | Department Core Lab-13 | PC | -- | -- | 2 | 1 |
| ELP51 | Minor Project-II | PR | -- | -- | 2# | 1 |
| MC^ | Mandatory Course | MC | 2 | -- | -- | 2 |
| SDX | SCOPE Course (Optional) | SD | -- | -- | -- | -- |
| ABL3 | Design Thinking, Diversity and Workplace Etiquettes | ABL | -- | -- | 2 | 1 |
| CEP3 | Problem solving module-II (Optional) | CEP | -- | -- | -- | -- |
| AC | Additional Course (For Fast Learners) | PC | 2 | -- | 2 | 3 |
| | Total | | 14 | 1 | 14 | 22 |
| SEM VI | | | | | | |
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| | | | L | T | P | |
| EL61^ | Department Elective-1 | PC | 3 | -- | -- | 3 |
| EL62^ | Department Elective-2 | PC | 3 | -- | -- | 3 |
| ELL61^ | Department Elective Lab-1 | PC | -- | -- | 2 | 1 |
| ELL62^ | Department Elective Lab-2 | PC | -- | -- | 2 | 1 |
| ELL63 | Department Core Lab-14 | PC | -- | -- | 2 | 1 |
| ELP61 | Major Project I | PR | -- | -- | 8# | 4 |
| HSS61 | Advanced Communication Skills | HSS | 1 | -- | 2 | 2 |
| OE^ | Open Elective @ | OE | 3@ | -- | 2@ | 4@ |
| SDX | SCOPE Course (Optional) | SD | -- | -- | -- | -- |
| ABL4 | Technical Paper and Patent Drafting | ABL | -- | -- | 2 | 1 |
| CEP4 | Problem solving module-III (Optional) | CEP | -- | -- | -- | -- |
| MC^ | Mandatory Course | MC | 2 | -- | -- | 2 |
| AC | Additional Course (For Fast Learners) | PC | 2 | -- | 2 | 3 |
| | Total | | 9+3@ | -- | 18+2@ | 18+4@ |

Dean Academics



Signature

Principal, S.P.I.T.

N. U. Ph

H



Sardar Patel Institute of Technology

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| Course Code | Course Name | Group | SEM VII | | | Credits |
|-------------|--|-------|---------|----|-------|---------|
| | | | L | T | P | |
| ELE71^ | Department Elective-3 | PE | 3 | -- | -- | 3 |
| ELE72^ | Department Elective-4 | PE | 3 | -- | -- | 3 |
| ELEL71^ | Department Elective Lab-3 | PE | -- | -- | 2 | 1 |
| ELEL72^ | Department Elective Lab-4 | PE | -- | -- | 2 | 1 |
| ELL73 | Department Core Lab-15 | PC | -- | -- | 2 | 1 |
| HSS81 | Technology Entrepreneurship Lab | HSS | -- | -- | 2 | 1 |
| ELP71 | Major Project-II | PR | -- | -- | 16# | 8 |
| OE^ | Open Elective @ | OE | 3@ | -- | 2@ | 4@ |
| MOOC | MOOC | MOOC | -- | -- | -- | 2 |
| ABL5 | Financial Planning, Taxation Policies and Investment | ABL | -- | -- | 2 | 1 |
| CEP5 | Problem solving module-IV (Optional) | CEP | -- | -- | -- | -- |
| Total | | | 6+3@ | -- | 26+2@ | 21+4@ |

| Course Code | Course Name | Group | SEM VIII | | | Credits |
|-------------|-------------------------------------|-------|----------|----|----|---------|
| | | | L | T | P | |
| INT | Internship (6 Months) | INT | -- | -- | -- | 10 |
| CEP6 | Problem solving module-V (Optional) | CEP | -- | -- | -- | -- |
| Total | | | | | | 10 |

| SEM | Teaching Scheme (Hrs/week) | | | Total Hrs /Week | Credits |
|---------------|----------------------------|----|-------|-----------------|---------|
| | L | T | P | | |
| I(Gr1) | 16 | 1 | 14 | 31 | 22 |
| I(Gr2) | 15 | -- | 16 | 31 | 21 |
| II(Gr1) | 13 | -- | 14 | 27 | 18 |
| II(Gr2) | 14 | 1 | 12 | 27 | 19 |
| III | 13+2 | 3 | 10 | 26+2 | 21 |
| IV | 13 | 1 | 14 | 28 | 20 |
| V | 14 | 1 | 14 | 29 | 22 |
| VI | 9+3@ | -- | 18+2@ | 32 | 18+4@ |
| VII | 6+3@ | -- | 26+2@ | 37 (project 16) | 21+4@ |
| VIII | | | | | 10 |
| Total Credits | | | | | 160 |

Additional 12 credits for advanced courses for fast learners (Students with CGPI greater than or equal to 8 can opt for these courses).

Dean Academics



Shinde →

Q.U.S.

Principal, S.P.I.T.



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
 (Autonomous Institute Affiliated to University of Mumbai)

Department of Electronics Engineering

Constitution of BoS for the Academic year 2019-20

| Sr. No. | Designation | Name |
|---------|--|--|
| 1 | Principal | Dr. Y.S.Rao |
| 2 | Chairman (Head of the Department) | Dr. Deepak C. Karia (Asso. Prof.) |
| 3 | Faculty as per Specialization | 1. Dr. S. S. Rathod (Professor) 2. Dr. Rajendra G. Sutar (Asso. Prof.) 3. Prof. K. T. Talele (Asso. Prof.) 4. Prof. Narendra A. Bhagat (Asso. Prof.) |
| 4 | Two subject experts from outside the parent university to be nominated by the Academic Council | 1. Dr. B. G. Fernandes(IIT Bombay) 2. Dr. Sanjay Dambhare (COEP) |
| 5 | One expert nominated by the vice-chancellor | Dr. S. S. Mandre, DBIT Kuria |
| 6 | One representative from industry/corporate sector/allied area relating to placement | Mr. Bharat Chaudhari |
| 7 | Postgraduate meritorious alumnus | 1. Ms. Ipsita Bhattacharya 2. Mr. Abhijeet Gokhale |
| 8 | Students Representatives | 1. Ritwik Pandit 2. Krish Matreja |
| 9 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. B. K. Lande (Datta Meghe COE, Airoli) |
| 10 | Other internal subject experts involved in syllabus revision | 1. Prof. Prashant Kasambe (Asst. Prof.) 2. Prof. Govind T. Haldankar (Asst. Prof.) 3. Prof. Payal Shah (Asst. Prof.) 4. Prof. Manisha Bansode (Asst. Prof.) 5. Prof. Priya Deshpande (Asst. Prof.) |

D. Karia
Dr. Deepak Karia
 M.E., Ph.D. (VJTI Mumbai)
 Head of Electronics Engineering Department
 Bharatiya Vidya Bhawan's
 Sardar Patel Institute of Tech. & Engg.
 Munshi Nagar, Andheri (W), Mumbai - 400 058.



R. J.
Gandhi



Bhavan's

Published in 1955 by Suresh Ch. & M. Manohar with the blessing of Mahatma Gandhi.
आ नो मद्दा : ब्रह्मदी वल्लु दिव्यतः ।
Let noble thoughts come to us from every side

SARDAR PATEL INSTITUTE OF TECHNOLOGY

(Autonomous Institute)

Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India
E-mail: principal@spit.ac.in website: www.spit.ac.in

Date: 02nd December 2019

To,
Mr. Bharat Chaudhari

Subject: Appointment as member of 'Board of Studies (BoS)' of Electronics Engineering Department.

Dear Sir,

Greetings!

It is our pleasure to have you as a member of 'Board of Studies (BoS)' of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri(West), Mumbai.

We are sure that your expertise will help us in framing and implementing the curriculum for B.Tech. (Electronics Engineering) programme in a successful manner.

With Warm Regards

Dr. Y.S. Rao
Principal,
Sardar Patel Institute of Technology



Sehgal
X



Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W), Mumbai-400058
(Autonomous Institute Affiliated to University of Mumbai)
Electronics Engineering Department

Date: 13/12/2019

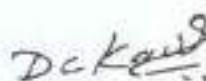
To,

Dr. Saurabh Mehta,
VIT, Mumbai.

I am pleased to inform you that you have been invited as a syllabus setter for the SE Electronics Courses, Computer Organization and Architecture (Theory-EL32 & Lab-ELL32) and Object Oriented Programming Lab(ELL34).

Further, We thank you for sparing your time and valuable feedback provided to make the necessary changes in the curriculum.

Yours faithfully



Dr. Deepak Karia

H.O.D., Electronics Department
M.E., Ph.D. (VJTI Mumbai)
Head of Electronics Engineering Department
Bharatiya Vidya Bhawan's
Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W), Mumbai - 400 058.



Bhavna → *PK*





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E-mail: principal@spit.ac.in website: www.spit.ac.in

Date: 02nd December 2019

To,
Ms. Ipsita Bhattacharya

Subject: Appointment as member of 'Board of Studies (BoS)' of Electronics Engineering Department.

Dear Madam,

Greetings!

It is our pleasure to have you as a member of 'Board of Studies (BoS)' of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri(West), Mumbai.

We are sure that your expertise will help us in framing and implementing the curriculum for B.Tech. (Electronics Engineering) programme in a successful manner.

With Warm Regards

Dr. Y.S. Rao
Principal,
Sardar Patel Institute of Technology


Re
Bhattacharya



Deepak Karia <deepak_karia@spit.ac.in>

Re: Syllabus of COA 2020 - 21

2 messages

Saurabh Mehta <saurabh.mehta@vit.edu.in>
 To: Priya Chimurkar <priya.chimurkar@spit.ac.in>
 Cc: "deepak_karia@spit.ac.in" <deepak_karia@spit.ac.in>

Mon, Dec 9, 2019 at 1:21 PM

Dear Mam,

Please see the attached file for your reference.

Best Regards,

Saurabh Mehta

Chief Academic Officer, VIT

Professor, Department of Electronics and Telecommunication

Tel:+91-22-24161126 Ext: 1481 M-9833955002

Weblink:<https://saurabhmehta.in/>Youtube Channels: <http://tinyurl.com/hzwwzu8>; <http://tinyurl.com/pj24afh>

Vidyalankar Educational Campus
 Vidyalankar College Marg, Wadala East,
 Mumbai - 400 037.

Tel No. 022 – 2416 1126

www.vit.edu.in

Please consider your environmental responsibility before printing this email

From: Priya Chimurkar <priya.chimurkar@spit.ac.in>**Sent:** Sunday, December 8, 2019 9:37 AM**To:** Saurabh Mehta <saurabh.mehta@vit.edu.in>**Subject:** Re: Syllabus of COA 2020 - 21

Dear Sir,

Good Morning!!!

Sorry to bother you; in continuation of discussion with trailing mail, we have been told to submit the changes by Tuesday.

Please suggest the changes.

Thanking you.

On Thu, Dec 5, 2019, 11:24 Saurabh Mehta <saurabh.mehta@vit.edu.in> wrote:

Dear Mam,

Thank you for your mail. I will send my feedback in couple of days !

Thank you !

Best Regards,





Sardar Patel Institute of Technology

Bhavan's Campus, Manki Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Name & Sign of the Expert1:

Dr. Saurabh Mehta
Chief Academic professor & Professor
Vidyalankar Institute of Technology, VIT

Name & Sign of the Expert2:

Name & Sign of the Expert3:

Name & Sign of the Expert3:

- Suggestions:-
- ① LAB Components can be added into the course many concepts can be simulated or demonstrated.
 - ② Mini projects or case studies can be included.
 - ③ E-Resources links & mooc courses can be provided in Reference and Text book sections.
 - ④ Open resources / Software for the same may be included.



Shubhaji



Deepak Karia <deepak_karia@spit.ac.in>

Invitation as a member of BoS

3 messages

Deepak Karia <deepak_karia@spit.ac.in>

Sun, Dec 8, 2019 at 10:02 AM

To: ssmande@yahoo.com, Sudhakar Mande <ssmande1@gmail.com>

Cc: Rajendra Sutar <rajendra_sutar@spit.ac.in>

Dear Sir,

It is our pleasure to have you as an expert nominated by the Vice-Chancellor, UoM for 'Board of Studies (BoS) of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri (West), Mumbai.

Please find the attached appointment letter as member of BoS for the reference. Let me hereby request you to communicate your acknowledgement by sending a reply to this email.

Thanking you.

With Warm Regards,

Dr. D.C.Karia, Ph.D. (VJTI)

Associate Professor & HoD

Department of Electronics Engineering

Sardar Patel Institute of Technology

Email: deepak_karia@spit.ac.in, deepakckaria@gmail.com

Tel: 022-26708520/26287250 (Ext:315).

Vision of the Department:

"To create professionally competent engineers, researchers and entrepreneurs in the field of Electronics Engineering for the benefit of society"



BoS invitation letters [Dr. Mande].pdf
265K

Sudhakar Mande <ssmande1@gmail.com>

Sun, Dec 8, 2019 at 11:28 AM

To: Deepak Karia <deepak_karia@spit.ac.in>

Cc: Sudhakar Mande <ssmande@yahoo.com>, Rajendra Sutar <rajendra_sutar@spit.ac.in>

Dear All

Thank you so much for your email. I am very happy to know that I am being nominated as member of BoS in Electronics Engineering at your prestigious institute. I accept this invitation and I will try my best to contribute towards academics for overall quality improvement.

Thanks and Regards

Dr Sudhakar Mande

[Quoted text hidden]

Deepak Karia <deepak_karia@spit.ac.in>

Sun, Dec 8, 2019 at 12:14 PM



Shindey

2/25/20, 3:39 PM



Deepak Karia <deepak_karia@spit.ac.in>

Invitation as a member of BoS

5 messages

Deepak Karia <deepak_karia@spit.ac.in>
To: sanjay.dambhare@gmail.com, ssd@elec.coep.org.in
Cc: Rajendra Sutar <rajendra_sutar@spit.ac.in>

Sun, Dec 8, 2019 at 9:56 AM

Dear Sir,

It is my pleasure to invite you as a member of 'Board of Studies (BoS)' of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri (West), Mumbai 400058. I am sure that your expertise will help us in designing the curriculum for B.Tech programme.

Please find the attached appointment letter as member of BoS for the reference. Let me hereby request you to communicate your willingness and consent to be on BoS by sending a reply to this email.

Thanking you.

With Warm Regards,

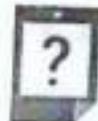
--
Dr. D.C.Karia, Ph.D. (VJTI)
Associate Professor & HoD
Department of Electronics Engineering
Sardar Patel Institute of Technology
Email:deepak_karia@spit.ac.in,deepakckaria@gmail.com
Tel: 022-26708520/26287250, 9820436099 (Ext:315).
Vision of the Department:

"To create professionally competent engineers, researchers and entrepreneurs in the field of Electronics Engineering for the benefit of society"

BoS invitation letters [Dr.SD].pdf
251K

Mail Delivery Subsystem <mailer-daemon@googlemail.com>
To: deepak_karia@spit.ac.in

Sun, Dec 8, 2019 at 9:56 AM



Address not found



Re
Sekhrib
→



Deepak Karia <deepak_karia@spit.ac.in>

Invitation as a member of BoS

Sanjay S Dambhare <ssd.elec@coep.ac.in>
To: Deepak Karia <deepak_karia@spit.ac.in>, "sanjay.dambhare@gmail.com"
<sanjay.dambhare@gmail.com>

Sun, Dec 8, 2019 at 7:47 PM

Thank you Prof. Karia for the invitation. My pleasure , I agree to contribute.
Regards

Sanjay Dambhare (Ph.D.-IITB)
Professor and Head
Department of Electrical Engineering
College of Engineering, Shivajinagar, Pune, INDIA - 411 005
Ph: +9120 25507127, Fax: +91 20 25507299
Mo.: +91 9420697868, Email: sanjay.dambhare@gmail.com

From: Deepak Karia <deepak_karia@spit.ac.in>
Sent: 08 December 2019 11:01
To: Sanjay S Dambhare <ssd.elec@coep.ac.in>
Subject: Fwd: Invitation as a member of BoS

[Quoted text hidden]



Re
Sekhrib



Deepak Karia <deepak_karia@spit.ac.in>

Invitation as a member of BoS

4 messages

Deepak Karia <deepak_karia@spit.ac.in>
 To: "Prof. B. K. Lande" <bklande@gmail.com>
 Cc: Rajendra Sutar <rajendra_sutar@spit.ac.in>

Sun, Dec 8, 2019 at 9:58 AM

Dear Sir,

It is my pleasure to invite you as a member of 'Board of Studies (BoS)' of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri (West), Mumbai 400058. I am sure that your expertise will help us in designing the curriculum for B.Tech programme.

Please find the attached appointment letter as member of BoS for the reference. Let me hereby request you to communicate your willingness and consent to be on BoS by sending a reply to this email.

Thanking you.

With Warm Regards,

--
 Dr. D.C.Karia, Ph.D. (VJTI)
 Associate Professor & HoD
 Department of Electronics Engineering
 Sardar Patel Institute of Technology
 Email:deepak_karia@spit.ac.in,deepakckaria@gmail.com
 Tel: 022-26708520/26287250, 9820436099 (Ext:315).
Vision of the Department:

"To create professionally competent engineers, researchers and entrepreneurs in the field of Electronics Engineering for the benefit of society"

[BoS invitation letters \[Dr.BKL\].pdf](#)
285K

Prof. B. K. Lande <bklande@gmail.com>
 To: Deepak Karia <deepak_karia@spit.ac.in>

Sun, Dec 8, 2019 at 5:16 PM

Dear Sir,

Thank you very much. I accept the same and I would the the meetings for the same.
 Regards, BK Lande

[Quoted text hidden]

Sun, Dec 8, 2019 at 5:17 PM

Deepak Karia <deepakckaria@gmail.com>
 To: "Prof. B. K. Lande" <bklande@gmail.com>





Deepak Karia <deepak_karia@spit.ac.in>

Invitation as a member of BoS-ETRX DEPT-SPIT

4 messages

Deepak Karia <deepak_karia@spit.ac.in>
 To: ipsita.b2911@gmail.com, ipsita.diya@yahoo.co.in
 Cc: Rajendra Sutar <rajendra_sutar@spit.ac.in>

Sun, Dec 8, 2019 at 10:12 AM

Dear Madam,

It is my pleasure to invite you as a member of 'Board of Studies (BoS)' of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri (West), Mumbai 400058. I am sure that your expertise will help us in designing the curriculum for B.Tech programme.

Please find the attached appointment letter as member of BoS for the reference. Let me hereby request you to communicate your willingness and consent to be on BoS by sending a reply to this email.

Thanking you.

--
With Warm Regards,

--
 Dr. D.C.Karia, Ph.D. (VJTI)
 Associate Professor & HoD
 Department of Electronics Engineering
 Sardar Patel Institute of Technology
 Email:deepak_karia@spit.ac.in,deepakckaria@gmail.com
 Tel: 9820436099, 022-26708520/26287250 (Ext:315).

Vision of the Department:

"To create professionally competent engineers, researchers and entrepreneurs in the field of Electronics Engineering for the benefit of society"

Mission of the Department:

- To impart quality engineering education as per the industry need
- To motivate students to undertake research on next generation technologies
- To create an environment that shall foster growth of professionals capable of effectively using the scientific and technical knowledge for the betterment of mankind

BoS invitation letters [18].pdf
 294K



Ipsita Bhattacharya <ipsita.diya@yahoo.co.in>
 Reply To: "ipsita.diya@yahoo.co.in" <ipsita.diya@yahoo.co.in>
 To: "deepak_karia@spit.ac.in" <deepak_karia@spit.ac.in>, "ipsita.b2911@gmail.com"
 <ipsita.b2911@gmail.com>
 Cc: Rajendra Sutar <rajendra_sutar@spit.ac.in>

Tue, Dec 10, 2019 at 9:26 PM

Hello Sir,

Thank you for the email.

Apologies for the delayed response.
 I have already initiated the process for internal clearance in my current organization. Within a day or two, I should be able to confirm to you via email. Request you to please bear with me.

Thanks & Regards,
 Ipsita Bhattacharya
 Contact: +919967067553

Sent from Yahoo Mail on Android
 [Quoted text hidden]

Ipsita Bhattacharya <ipsita.diya@yahoo.co.in>
 Reply To: "ipsita.diya@yahoo.co.in" <ipsita.diya@yahoo.co.in>
 To: "deepak_karia@spit.ac.in" <deepak_karia@spit.ac.in>, "ipsita.b2911@gmail.com"
 <ipsita.b2911@gmail.com>
 Cc: Rajendra Sutar <rajendra_sutar@spit.ac.in>

Thu, Dec 12, 2019 at 3:56 PM

Hello Sir,

I hereby confirm my consent to be a part of BoS.
 Apologies for the delay in providing the confirmation.

Request you to please keep me informed on the schedule/dates of the meetings in advance.

Thanks and Regards,
 Ipsita Bhattacharya
 Contact: +919967067553

Sent from Yahoo Mail on Android

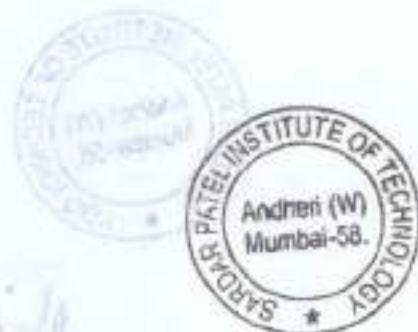
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Deepak Karia <deepakckaria@gmail.com>
 To: "ipsita.diya@yahoo.co.in" <ipsita.diya@yahoo.co.in>
 Cc: "ipsita.b2911@gmail.com" <ipsita.b2911@gmail.com>, Rajendra Sutar <rajendra_sutar@spit.ac.in>

Thu, Dec 12, 2019 at 6:14 PM

Thank you for your response.
 [Quoted text hidden]

Sehrdly →
RE





SARDAR PATEL INSTITUTE OF TECHNOLOGY

(Autonomous Institute)

Bhavans Campus, Manki Nagar, Andheri (west), Mumbai - 400058, India
E-mail: principal@spit.ac.in website: www.spit.ac.in

Date: 02nd December 2019

To:
Dr. S. S. Mande

Subject: Appointment as member of 'Board of Studies (BoS)' of Electronics Engineering Department.

Dear Sir,

Greetings!

It is our pleasure to have you as an expert nominated by the Vice-Chancellor, UoM for 'Board of Studies (BoS)' of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri (West), Mumbai.

We are sure that your expertise will help us in framing and implementing the curriculum for B.Tech. (Electronics Engineering) programme in a successful manner.

With Warm Regards,

D. S. Rao
Principal,
Sardar Patel Institute of Technology



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X



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SARDAR PATEL INSTITUTE OF TECHNOLOGY

(Autonomous Institute)

Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India
E-mail: principal@spit.ac.in website: www.spit.ac.in

Date: 02nd December 2019

To,
Dr. B. G. Fernandes(IIT Bombay)

Subject: Appointment as member of 'Board of Studies (BoS)' of Electronics Engineering Department.

Dear Sir,

Greetings!

It is our pleasure to have you as a member of 'Board of Studies (BoS)' of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri(West), Mumbai.

We are sure that your expertise will help us in framing and implementing the curriculum for B.Tech. (Electronics Engineering) programme in a successful manner.

With Warm Regards

Dr. Y.S. Rao
Principal,
Sardar Patel Institute of Technology





Bhavan's
Bharat Seva

Tel: 91-22-2670 8524
2670 7440
2628 7250
Fax: 91-22-2670 1422

The services of Bhavan's Dr. A. M. Marathi will be known as Mahadev Marathi.

अग्री भद्रा : कल्याण कन्तु विकास ..

2011-12012013 दृष्टिकोण से इसका अवधारणा

SARDAR PATEL INSTITUTE OF TECHNOLOGY

(Autonomous Institute)

Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India.

E mail: principal@spit.ac.in website: www.spit.ac.in

Date: 02nd December 2019

To,
Dr. B.K.Lande

Subject: Appointment as member of 'Board of Studies (BoS)' of Electronics Engineering Department.

Dear Sir,

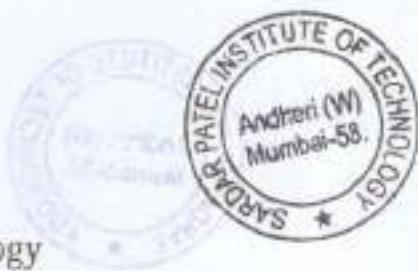
Greetings!

It is our pleasure to have you as a member of 'Board of Studies (BoS)' of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri(West), Mumbai.

We are sure that your expertise will help us in framing and implementing the curriculum for B.Tech. (Electronics Engineering) programme in a successful manner.

With Warm Regards

Dr. Y.S. Rao
Principal,
Sardar Patel Institute of Technology



Y.S. Rao



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Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India

E mail: principal@spit.ac.in website: www.spit.ac.in

Date: 02nd December 2019

To,
Dr. Sanjay Dambhare

Subject: Appointment as member of 'Board of Studies (BoS)' of Electronics Engineering Department.

Dear Sir,

Greetings!

It is our pleasure to have you as a member of 'Board of Studies (BoS)' of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri(West), Mumbai.

We are sure that your expertise will help us in framing and implementing the curriculum for B.Tech. (Electronics Engineering) programme in a successful manner.

With Warm Regards

Dr. Y.S. Rao
Principal,
Sardar Patel Institute of Technology



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Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India

E-mail: principal@spit.ac.in website: www.spit.ac.in

Date: 02nd December 2019

To,
Dr. Sanjay Dambhare

Subject: Appointment as member of 'Board of Studies (BoS)' of Electronics Engineering Department.

Dear Sir,

Greetings!

It is our pleasure to have you as a member of 'Board of Studies (BoS)' of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri(West), Mumbai.

We are sure that your expertise will help us in framing and implementing the curriculum for B.Tech. (Electronics Engineering) programme in a successful manner.

With Warm Regards

Dr. Y.S. Rao
Principal,
Sardar Patel Institute of Technology



Sanjay
Signature



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai - 400058 (M)
(Autonomous Institute Affiliated to University of Mumbai)

Board of Studies (BoS) of Department of Electronics and Telecommunication Engineering

Year 2018-19

| Sr. No. | Designation | Name |
|------------|---|--|
| 1 | Chairman (Head of the Department) | Dr. Y. S. Rao |
| 2 | Faculty as per Specialization | Dr. Preeti Jani Prof. D. D. Ambawade Prof. Sonkusare Reema |
| 3 | Three subject experts from outside the parent university to be nominated by the Academic Council | Dr. B G Fernandes Dr. M B Patil Dr. Kumar Appaiah |
| 4 | One expert nominated by the vice-chancellor | - |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Mr. Rishi Shah Dr. R. R. Sawant |
| 6 | One graduate meritorious alumnus | Mr. Gaurav Sawant Mr. Bhavin Kamdar Ms. Kadambani Shinde |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. Sanjay Damdhare |
| 8 | Other members of staff of the same faculty | Prof. Manish Parmar Prof. Sukanya Kulkarni Prof. A.D. Mane Prof. Vijaya Kambale Dr. Amol Deshpande Prof. Milind Paraye Prof. Ganapat Parulekar Prof. Pallavi Malame |

R. Sonkusare

Head

Department of Electronics and Telecommunication
Engineering

Principal
Sardar Patel Institute of Technology

2018-19



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Date: 6th Dec 2018

A meeting of Department Advisory Board and Board of Studies (Electronics Engineering) is called on 6th Dec. 2018 at 3.00 pm at Sardar Patel Institute of Technology, Andheri West Mumbai.

Agenda of the meeting is as follows:

1. Information about Semester Long Internship to be implemented from 2019-20.
2. Approval of detail syllabus and curriculum scheme for Final Year Electronics Engineering for the academic year 2019-20.
3. Approval of following theory and lab course contents:
Digital Circuits (First Year)
Basic Electrical Technology (First Year)
Basic Electrical and Electronics (First Year)
Python Programming (First Year)
Liberal Art Courses (First and Second Year)
Mandatory Elective Courses (Third Year)
4. Approval of the 160 credit scheme to be implemented from 2019-20
5. Information about Student Exchange Program with Fontys School of ICT, Netherlands

Dr. Surendra Rathod
HoD Electronics Engg. Dept.



R.J.

Shubhaji

Jil



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Date: 6th Dec 2018

A meeting of Department Advisory Board and Board of Studies (Electronics Engineering) was called on 6th Dec. 2018 at 3.00 pm at Sardar Patel Institute of Technology, Andheri West Mumbai.

Following members were present for the meeting.

| S.N. | Name | Signature |
|------|-------------------------|-----------|
| 1 | Dr. Prachi Gharpure | |
| 2 | Dr. Y. S. Rao | |
| 3 | Dr. Surendra S. Rathod | |
| 4 | Dr. Baylon G. Fernandes | |
| 5 | Dr. Mahesh B. Patil | |
| 6 | Mr. Rajan Goyal | |
| 7 | Dr. R. R. Sawant | |
| 8 | Mr. Nandish Avalani | |
| 9 | Mr. Viral Hingarh | ABSENT |
| 10 | Mr. Rohit Bhat | ABSENT |
| 11 | Mr. Amog Vakadkar | ABSENT |
| 12 | Mr. Kunal Rege | |
| 13 | Mr. Abbas Barwaniwala | |
| 14 | Mr. Prutha Atre | |
| 15 | Mr. Rutwik Pandit | |
| 16 | Mr. Ananta Goswami | |
| 17 | Dr. Rajendra Sutar | |
| 18 | Dr. Deepak Karia | |
| 19 | Prof. K. T. Talele | |
| 20 | Prof. Narendra Bhagat | ABSENT |





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
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Date: 10th Dec 2018

Minutes of BoS Meeting

A meeting of Department Advisory Board and Board of Studies (Electronics Engineering) was held on 6th Dec. 2018 at 3.00 pm in Room No. 105 at Sardar Patel Institute of Technology, Andheri West Mumbai. Minutes of the meeting are as follows:

1. Dr. Surendra Rathod welcomed all the members and faculty members of ETRX and EXTC department for the meeting. He informed about the agenda of the meeting. He informed members about the semester long internship to be implemented from academic year 2019-20. He told about the feedback received from various stakeholders namely industry/recruiters, students, faculty and parents. He explained about category 1 and category 2 students in detail.
2. Mr. Rajan Goyal, an Industry representative said that having a Semester Long Internship is welcome move. Alumni Mr. Amog Vakadkar and Mr. Kunal Rege also supported that it is a good and bold decision. However, Dr. B. G. Fernandes raised the concerns about evaluation of 10 credits of internship. Dr. Rathod informed that Dean Industry Relations is preparing detail rubrics for evaluation of internship. Dr. Prachi Gharpure suggested that there will be two times evaluation; one in middle of internship and another will be at the end of internship. The present scheme has two courses and two labs which are equivalent to 10 credits of internship. When Dr. Rathod asked to Dr. M. B. Patil whether IIT Bombay will take students for semester long internship then he replied that IITB professors may accept few students based on their performance. Student representative Ms. Prutha Aire said that SPTBI internships should be allowed to which Dr. Prachi Gharpure replied in affirmation.
3. Dr. B. G. Fernandes and Dr. Y. S. Rao cautioned about failures during internship program. They suggested having alternate mechanism for such students. If industry raises concerns about attitude/disciplinary issues of student during internship and industry is not ready to continue student then institute need to find alternate solution. For this Dr. M. B. Patil suggested that such





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students shall be taken back in the institute and they will have to take courses to compensate for 10 credits. Institute shall give a thought when and how to conduct these courses. It was also recommended that these students will do two courses and two labs in summer along with their juniors. Dr. Prachi Gharpure also informed that these students will be allowed to sit for placements.

4. Dr. B. G. Fernandes asked that what if student changes mind to migrate from category 1 to category 2. In reply to this Dr. Prachi Gharpure told that at present we will not allow students to migrate between categories to which all the members agreed. Student representative asked that if student is selected in a company, accepts the offer and then do not want to join due to the job profile or mindset change, to which Dr. M. B. Patil and Dr. Prachi Gharpure replied that students should not do this because it can have negative impact on brand of S.P.I.T.

5. Dr. S. S. Rathod informed all the members about Student Exchange Program with Fontys School of ICT, Netherlands. He has discussed the important points mentioned in the draft MoU between ICT, Fontys and S.P.I.T. Dr. M. B. Patil said that IITB has a cell which deal with student exchange programs and can be contacted for further details. He also said that schedule matching is very important and need to be done first. There are many issues discussed by the members like subject relevance matching, logistic concerns, credit structure, which semester to offer etc. It was resolved that to finalize these issues at institute level 'International Committee Office' to be established which will deal with all such issues.

6. Dr. Rathod presented the curriculum for following theory and lab courses

Digital Circuits (First Year)

Basic Electrical Technology (First Year)

Basic Electrical and Electronics (First Year)

Python Programming (First Year)

Liberal Art Courses (First and Second Year)

Mandatory Elective Courses (Third Year)



10/11/18
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The syllabus for Digital circuits, Python Programming, Liberal art Course and Mandatory Elective Courses was approved. Minor revisions were recommended in the contents of Basic Electrical Technology and Basic Electrical and Electronics engineering. It was suggested that contents of these courses are approved with minor revisions.

7. Dr. S. S. Rathod presented detail syllabus and curriculum scheme for Final Year Electronics Engineering for the academic year 2019-20. It was recommended that only two courses in a track to be linked while third course need not be a part of track. Prof. M. B. Patil asked whether it is possible to offer cross track subjects, however Dr. Rathod informed that at present it is not possible because of faculty constraints. Course contents and scheme was approved unanimously by all the members.
6. Dr. Rathod presented 160 credit scheme to be implemented from 2019-20. Dr. B. G. Fernandes suggested introducing additional course in each semester for fast learners. This should be advanced course related to the course taught in the same semester. Dr. M.B. Patil suggested that department wise sequencing of the courses need to be looked into.

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10/12/2018

Dr. Syrendra Rathod
HoD Electronics Dept.

Due
Dr. Prachi Gharpure
Principal

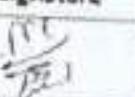
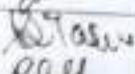
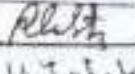
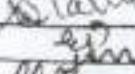
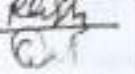




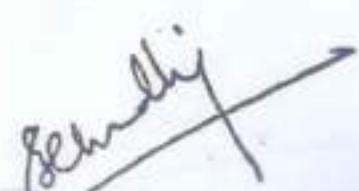
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 (Autonomous Institute Affiliated to University of Mumbai)

Electronics Engineering Department

List of Faculty for Curriculum Design of Final Year B.E. for 2019-20 Academic Year

| S.N. | Course Code | Course Name | Faculty | Signature |
|------|---------------|---|---|---|
| 1 | ELE71A | IC and MEMS Technology | Prof. P. V. Kasambe (Coordinator) Dr. S. S. Rathod |  |
| 2 | ELE71B | Digital Signal and Image Processing | Prof. K. T. Talele (Coordinator) Dr. R. G. Sutar |  |
| 3 | ELE72A/ELE81A | Analog CMOS VLSI Design | Dr. S. S. Rathod (Coordinator) Prof. Narendra Bhagat Prof. Payal Shah |  |
| 4 | ELE72B/ELE81B | Neural Network and Fuzzy Logic Systems | Dr. R. G. Sutar (Coordinator) Prof. K. T. Talele Dr. D. R. Kalbande |  |
| 5 | ELE73A | Power Electronics for Renewable Energy | Dr. R. G. Sutar (Coordinator) Prof. G. T. Haldankar Dr. Y. S. Rao Dr. Rajendra Sawant |  |
| 6 | ELE73B | Computer and Communication Networks | Dr. D. C. Karla (Coordinator) Prof. Manisha Bansode Prof. Dayanand Ambawade |  |
| 7 | ELE82A | Electronic System Design | Prof. Priya Deshpande (Coordinator) Prof. Kumar Khandagale Dr. Y. S. Rao Dr. S. S. Rathod |  |
| 8 | ELE82B | Radiating Systems | Prof. Manisha Bansode (Coordinator) Dr. D. C. Karla Prof. Reena Sonkusare Prof. Pallavi Malame |  |
| 7 | ELEL71A | IC and MEMS Technology Lab | Prof. P. V. Kasambe (Coordinator) Dr. S. S. Rathod |  |
| 8 | ELEL71B | Digital Signal and Image Processing Lab | Prof. K. T. Talele (Coordinator) Dr. R. G. Sutar |  |




Renuka



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| | | | |
|----|----------------|--|---|
| 9 | ELE72A/ELE71A | Analog CMOS VLSI Design Lab | Dr. S. S. Rathod (Coordinator) Prof. Narendra Bhagat Prof. Payal Shah |
| 10 | ELE72B/ELE71B | Neural Network and Fuzzy Logic Lab | Dr. R. G. Sutar (Coordinator) Prof. K. T. Talele Dr. D. R. Kalbande |
| 11 | ELE73A | Power Electronics for Renewable Energy Lab | Dr. R. G. Sutar (Coordinator) Prof. G. T. Haldankar Dr. Y. S. Rao Dr. Rajendra Sawant |
| 12 | ELE73B | Computer and Communication Networks Lab | Dr. D. C. Karia (Coordinator) Prof. Manisha Bansode Prof. Dayanand Ambawade |
| 13 | ELE82A | Electronic System Design Lab | Prof. Priya Deshpande (Coordinator) Prof. Kumar Khandagale Dr. Y. S. Rao Dr. S. S. Rathod |
| 14 | ELE82B | Radiating Systems Lab | Prof. Manisha Bansode (Coordinator) Dr. D. C. Karia Prof. Reena Sonkusare Prof. Pallavi Malame |
| 15 | ELP71 ELP81 | Major Project | Prof. P. V. Kasambe (Coordinator) Dr. R. G. Sutar Prof. Priya Deshpande Prof. Narendra Bhagat |
| 16 | CEP5 | Problem solving module-V (Optional) | Prof. Payal Shah (Coordinator) |
| 17 | HSS81 | Technology Entrepreneurship Lab | Prof. K. T. Talele (Coordinator) |
| 18 | ABL5 | Financial Planning, Taxation Policies and Investment (Noncredit) | Prof. Priya Deshpande (Coordinator) Prof. Reena Pawar |

Signature of HoD:





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Electronics Engineering Department

Semester VII common to both category '1' and category '2'

Student choose either A or B electives track

| Course Code | Course Name | Group | SEM VII | | | Credits | |
|-------------|-------------------------------------|-------|----------------------------|----|-----|---------|--|
| | | | Teaching Scheme (Hrs/week) | | | | |
| | | | L | T | P | | |
| ELE71^ | Elective-I | PE | 3 | -- | -- | 3 | |
| ELE72^ | Elective-II | PE | 3 | -- | -- | 3 | |
| ELE73^ | Elective-III | PE | 3 | -- | -- | 3 | |
| ELEL71^ | Elective-I Lab | PE | -- | -- | 2 | 1 | |
| ELEL72^ | Elective-II Lab | PE | -- | -- | 2 | 1 | |
| ELEL73^ | Elective-III Lab | PE | -- | -- | 2 | 1 | |
| ELP71 | Major Project | PR | -- | -- | 12# | 6 | |
| CEP5 | Problem solving module-V (Optional) | CEP | | | | | |
| | Total | | 9 | -- | 18 | 18 | |

Student choose either A or B electives track

- ELE71A IC and MEMS Technology
- ELE71B Digital Signal and Image Processing
- ELE72A Analog CMOS VLSI Design
- ELE72B Neural Network and Fuzzy Logic
- ELE73A Power Electronics for Renewable Energy
- ELE73B Computer and Communication Networks

Summer Term for Category '1'; Student chooses for semester long internship

| Course Code | Course Name | Group | Summer Term | | | Credits |
|-------------|--|-------|----------------------------|----|-------|----------|
| | | | Teaching Scheme (Hrs/week) | | | |
| HSS81 | Technology Entrepreneurship Lab. | HSS | -- | -- | 2 | 1 |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| ELP81 | Major Project | PR | -- | -- | 8 | 4 |
| MOOC | MOOC (Min 8 week course) | MOOC | -- | -- | -- | 2 |
| INT | Internship | PR | -- | -- | -- | 10# |
| ABLS | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | -- | - |
| | Total | | 2 | -- | 10+4@ | 7+4@+10# |



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Semester VIII for Category '2': Student opt out of 'Semester Long Internship'

| Course Code | Course Name | SEM VIII | | | Credits |
|-------------|---|----------|----------------------------|----|---------|
| | | Group | Teaching Scheme (Hrs/week) | | |
| HSS81 | Technology Entrepreneurship Lab | HSS | -- | -- | 2 |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ |
| OE^ | Open Elective @ | OE | 1@ | -- | 2@ |
| ELP81 | Major Project | PR | -- | -- | 2@ |
| MOOC | MOOC (Min 8 week course) | MOOC | -- | -- | 4 |
| ABLS | Financial Planning, Taxation Policies and Investment (Noncredit) | -- | -- | -- | 2 |
| ELE81^ | A: Analog CMOS VLSI Design B: Neural Network and Fuzzy Logic | PE | 3 | 1 | 4 |
| ELE82^ | A: Electronic System Design B: Radiating Systems | PE | 3 | 1 | 4 |
| EEL81^ | A: Analog CMOS VLSI Design Lab B: Neural Network and Fuzzy Logic Lab | PE | | 2 | 1 |
| EEL82^ | A: Electronic System Design Lab B: Radiating Systems Lab | PE | | 2 | 1 |
| | Total | | 6+2@ | 2 | 14+4@ |
| | | | | | 17+4@ |



Sekhrib

RJ

20/17-18

Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Electronics Engineering Department

Minutes of the BOS meeting held on 13th December 2017

BoS meeting for Electronics Engineering Department was held on 13th December 2017 at 2:00 pm in room no. 105.

The agenda of the meeting was

- Confirmation of minutes of previous BoS meeting
- Briefing to members on activities carried out by departments in current semester with respect to implementation of curriculum.
- Proposal for implementation of revised scheme and course contents for UG 3rd year engineering for both ETRX and EXTC department from academic year 2018-19
- Proposal for minor revisions in 2nd year scheme and course contents
- Discussion on assessment of laboratory courses
- Discussion on examination related rules

The minutes of meeting were as follows.

- 1) Dr. S. S. Rathod informed that following actions are taken for suggestions given by experts in last meeting.
 - Dr. M. B. Patil suggested that SCOPE module is good but take care about infrastructure and resource persons and instead of 75% let attendance be 100%. Dr. S. S. Rathod informed that they have taken care about SCOPE programme and by looking all logistic attendance criteria would be 75% only.
 - Dr. R. R. Sawant suggested keep make up exam and grade penalty for maximum grade. Dr. Rathod told this was taken care.
 - The experts also suggested change in name for certain courses like DCD, DLIC to Digital Circuit and Linear integrated circuits. Dr. Rathod told these corrections are done in name of courses.
- 2) Dr. S. S. Rathod summarized the activities done during last semester.





Electronics Engineering Department

Date: 13th December 2017

A meeting of Board of Studies and Department Advisory Board (Electronics Engineering Department) was called on 13th December 2017 at 2:00 PM at Sardar Patel Institute of Technology, Andheri (W), Mumbai.

Following members were present for the meeting

| Name | Signature |
|-----------------------------|-----------|
| 1) Dr. Prachi Gharpure | |
| 2) Dr. Y. S. Rao | |
| 3) Dr. Mahesh B. Patil | |
| 4) Dr. Baylon G. Fernandes | |
| 5) Dr. Rajendra R. Sawant | |
| 6) Mr. Bhavin Kamdar | |
| 7) Dr. Surendra S. Rathod | |
| 8) Dr. Rajendra G. Sutar | |
| 9) Dr. D. C. Karia | |
| 10) Dr. Parul Shah | |
| 11) Prof. K. T. Talele | |
| 12) Prof. N. A. Bhagat | |
| 13) Prof. G. T. Haldankar | |
| 14) Ms. Ruchira Ghule | |
| 15) Ms. Keshvi Srivastava | |
| 16) Mr. Rutvik Pandit | |
| 17) Prof. Nojib Anwari | |
| 18) Prof. Payal Shah | |
| 19) Prof. Manisha Bansode | |
| 20) Somesh Shrivastav | |
| 21) Akash Pidhani Baker | |
| 22) Arun V. Jale (Industry) | |



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Electronics Engineering Department

- **Activity based learning:** For this in last semester fire safety related activities were taken and he told that students enjoyed it a lot.
- **SCOPE details:** In last semester 296 students have taken part for different SCOPE programmes and Rs. 107400 was the total revenue generation Dr. Rathod also told that one more track is offered by S P Jain Management faculty in SCOPE.
- **Social Responsibility:** For this no. of activities were taken in last semester. FSAJ chapter was established in college. Different social activities were done with the help of Make A Difference-NGO, Rally For Rivers and schools. Dr. Rathod told various more activities are expected with Tata institute of social science, AKRUTI programme by DAE outreach center (BARC), RIT college.
- **CEP:** Dr. S. S. Rathod presented the data for each department regarding no of students participated and cleared the CEP paper. He told for ETRX and EXTC department this was successful and for IT and COMP departments it was failed.
- **Human Health System Approach:** (non-credit course) Dr. Rathod told this was totally failed because of various factors like audit course with lecture, non-participatory peer and faculty, content delivery, orientation of course.
- **Sports Activities:** Both SR and SA activities were compulsory to get 2 extra credits but as students informed that it is very difficult to get selection in university team now any SR or SA activity will be considered for getting 2 extra credits.

3) Dr. S. S. Rathod then discussed following points to experts and asked their suggestions.

- **Oral exam:** He asked whether oral exam should be there for each course at the end of semester or not. This question was raised because of issues related to availability of experts, logistic issues, no natural justice to students, disparity in allocation of marks for same course in two departments. Dr. Rathod asked whether objective type test for lab for MSE and ESE will solve this difficulty.

Dr. R. R. Sawant suggested to evaluate each experiment out of 10 marks with 5 indicators for each. Mr. Bhavin Kamdar told that assessment should not be based on only 2 hours. Dr. M. B. Patil told that practical exam is required. He told that don't allow junior faculty to take exam directly. Make it compulsory for him/her to show the paper to expert and then allow him/her to take exam. Dr. Y. S. Rao, Dr. Preeti Jain, Prof. Reena and other faculty member suggested that practical exam must be conducted and it could be within the 14 week semester. No external



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Electronics Engineering Department

Faculty is required and if teacher has completed 80% of lab, he/she can conduct the exam. Dr. M. B. Patil was agree with this but not with exam after 80% completion.

Hence it was decided that practical exam is required for few courses. It will be conducted by the course faculty in last two weeks of semester after completion of 100% lab experiments.

- **Question paper setting:** Dr. S. S. Rathod asked whether 20% papers from outside college faculty is required? Because the papers were not matching Cos and the depth of course.

Dr. R. R. Sawant told not to call external papers. Dr. M. B. Patil told that ask lesson plan from the teacher and allow senior faculty to set the paper so that all modules of the course will be included in the paper. Students also told that internal faculty should look the external paper or have 50% portion from internal and 50% portion from external in the paper.

After discussion it was decided that whose paper is going to come in exam should not be known, 20% paper in the exam will be asked from external. In exam section meeting of external and internal will be arranged and then paper setting will be accepted from the external along with synoptic.

- **Grace Marks:** Dr. S. S. Rathod asked whether grace marks should be given or not?

Dr. M. B. Patil suggested not to give grace marks because otherwise you are lowering the grades. Dr. Prachi Gharpure told 5% variation in checking is possible by a teacher hence 2 grace marks should be given. Dr. Y.S.Rao asked grace marks should be per course or for total marks?

After discussion it was decided 2 grace marks will be given for any course after end sem exam. i.e. once in a course benefit will be given.

- **ESE paper should be of 60 Marks or 100 Marks?**

As make up exam is going to be of 100 marks ESE also will be of 100 marks and scale down to 60 marks.

Student requested to change the weightage of the MSE and ESE because students are getting less grade though they score good in ESE. Dr. Prachi Gharpure told that they will try to have MSE and ISE of 20 marks instead of 30 and 10 from next academic year.

4) Syllabus of TE

Dr. R.G. Sutar presented sem V and sem VI syllabus for ETRX department.



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Electronics Engineering Department

Dr. M. B. Patil suggested to change the course name from fundamental OS to OS lab. Dr. R. R. Sawant asked in LIC course in the lab whether experiments are covered from all modules or not? Dr. S. S. Rathod answered experiments are from all modules. Dr. Prachi Gharpure asked that allow teacher to change the experiments with same depth. Dr. Y. S. Rao and Dr. M. B. Patil told that let the experiment list be exhaustive and few experiments can be listed as representative experiments.

Dr. M. B. Patil suggested to remove the word principle form the course name principle of microprocessor and microcontroller. Dr. Prachi Gharpure suggested to make the syllabus generalized for microcontroller architecture instead of specifying 8051.

Prof. K.T. Talele explained signals and systems course syllabus. Question was asked about Electromagnetic engineering that whether syllabus is doable or not. Prof. G.T. Haldankar told it is doable.

For action research project-I Dr. Y. S. Rao asked suggestion from industry expert. The expert told instead of having 1 year project let it be 6 months project and explain students the applications of concepts and then tell them to execute it. Dr. Y. S. Rao asked whether the mentioned area are ok for project then Dr. M.B. Patil told that it is ok but see the logistic and guidance in each area is available.

Dr. S. S. Rathod told as both ETRX and EXTC department are suggesting different model for mini project, better model will be adopted later on.

*Patil
13/12/17*

Professor & Head of the Department
Electronics Engineering Department
Bharati Vidyapeeth Chavan's
Sardar Patel Institute of Technology
Munshi Nagar, Andheri (W),
Mumbai - 400 058.

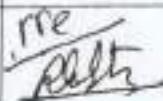
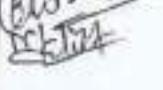
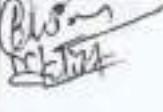
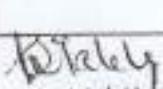
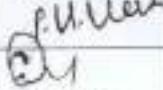
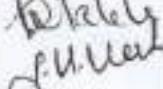
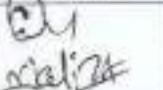
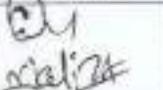
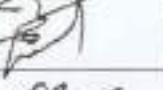
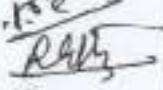
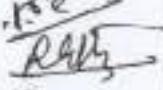
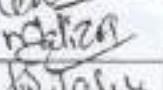
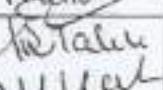
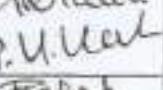
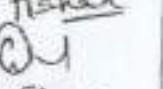
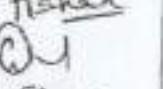
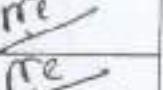
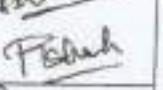


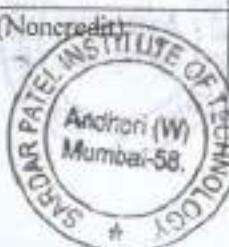
Patil
Principal
Sardar Patel Institute of Technology
Bhavans Andheri - 111
Munshi Nagar, Andheri (West),
Mumbai - 400 058.

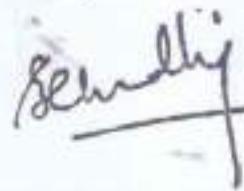
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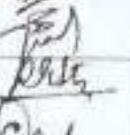
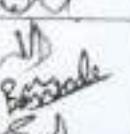
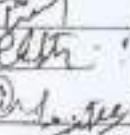
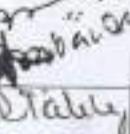
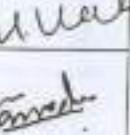
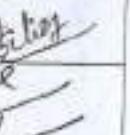
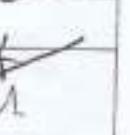
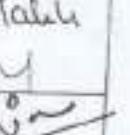
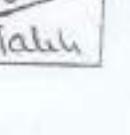
List of Faculty Members assigned for setting contents of semester V and VI courses of ETRX.
 You are requested to complete this task before 13th Oct. 2017.

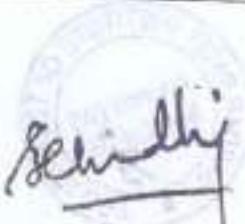
| SEM V | | | |
|-------------|--|--|--|
| Course Code | Course Name | Faculty | Sign |
| EL51 | Design with Linear Integrated Circuit | Prof. P. V. Kasambe (C) Dr. R. G. Sutar Prof. N. A. Bhagat |    |
| EL53 | Microprocessor and Microcontrollers Micro-architectures | Prof. Priya Deshpande (C) Prof. Jagdish Mali Prof. Manish Parmar |    |
| EL54 | Signals and Systems | Prof. K. T. Talele (C) Dr. Parul Shah |   |
| EL55 | Electromagnetic Engineering | Prof. G. T. Haldankar (C) Prof. Jagdish Mali Dr. S. S. Rathod |    |
| ELL51 | Design with Linear Integrated Circuit Lab | Prof. P. V. Kasambe (C) Dr. R. G. Sutar Prof. Narendra Bhagat |    |
| ELL53 | Microprocessor and Microcontrollers Lab | Prof. Priya Deshpande (C) Prof. Jagdish Mali |   |
| ELL54 | Signals and Systems Lab | Prof. K. T. Talele (C) Dr. Parul Shah |   |
| ELL56 | Instrumentation Lab | Prof. Payal Shah (C) Prof. G. T. Haldankar Prof. P. V. Kasambe |    |
| ELP57 | Minor Project I | Prof. P. V. Kasambe (C) Prof. Kumar Khandagale Prof. Priya Deshpande Prof. Payal Shah |     |
| X ABL3 | Technical Presentation Skills (Noncredit) | Prof. Priya Deshpande (C) |   |




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| SEM VI | | | |
|-------------|--|---|--|
| Course Code | Course Name | Faculty | Sign |
| EL61 | VLSI Design | Prof. N. A. Bhagat (C) Prof. Manisha Bansode Dr. S. S. Rathod |    |
| EL62 | Power Electronics | Dr. R. G. Sutar (C) Prof. G. T. Haldankar |   |
| ELL61 | VLSI Design Lab | Prof. N. A. Bhagat (C) Prof. Manisha Bansode Dr. S. S. Rathod |    |
| ELL62 | Power Electronics Lab | Dr. R. G. Sutar (C) Prof. G. T. Haldankar |   |
| ELL63 | Fundamentals of Operating System Lab | Prof. Nagib Ghatte (C) Prof. D. D. Ambawade |   |
| ELL64 | Signal Processing Lab | Prof. K. T. Talele (C) Dr. Parul Shah |   |
| ELL65 | Communication Engineering Lab | Dr. D. C. Karia (C) Prof. Manisha Bansode Prof. Jagdish Mali | |
| ELP66 | Minor Project II | Prof. P. V. Kasambe (C) Prof. Kumar Khandagale Prof. Priya Deshpande Prof. Payal Shah | |
| HSS61 | Advanced Communication Skills | -- | |
| OE^ | Open Elective @: 1. Consumer Electronics 2. Robotics and Machine Vision (Not for ETRX students) | Prof. Kumar Khandagale (C) Prof. G. T. Haldankar Prof. P. V. Kasambe Dr. S. S. Rathod Prof. K. T. Talele (C) Prof. G. T. Haldankar | |
| ABL4 | Technical Paper and Patent Drafting (Noncredit) | Prof. Priya Deshpande (C) Prof. K. T. Talele | |



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| SEM V | | | | | | |
|------------------|--|-------|----------------------------|----|----|---------|
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| | | | L | T | P | |
| EL51 | Design with Linear Integrated Circuit | PC | 3 | 1 | -- | 4 |
| EL53 | Microprocessor and Microcontrollers | PC | 3 | 1 | -- | 4 |
| EL54 | Signals and Systems | PC | 3 | 1 | -- | 4 |
| EL55 | Electromagnetic Engineering | PC | 3 | 1 | -- | 4 |
| EL151 | Design with Linear Integrated Circuit Lab | PC | -- | -- | 2 | 1 |
| EL153 | Microprocessor and Microcontrollers Lab | PC | -- | -- | 2 | 1 |
| EL154 | Signals and Systems Lab | PC | -- | -- | 2 | 1 |
| EL156 | Instrumentation Lab | PC | -- | 1 | 2 | 2 |
| ELP57 | Minor Project I | PR | -- | -- | 2# | 1 |
| MEC ³ | Mandatory Elective Course MEC3: Industrial and Organizational Psychology MEC4: Law for Engineers | MEC | 2 | -- | -- | 2 |
| SDX | SCOPE Course (Optional) | SD | -- | -- | -- | -- |
| ABL3 | Technical Presentation Skills (Noncredit) | ABL | -- | -- | -- | -- |
| CEP3 | Problem solving module-II (Optional) | CEP | -- | -- | -- | -- |
| | Total | | 12 | 5 | 10 | 24 |

| SEM VI | | | | | | |
|------------------|---|-------|----------------------------|----|-------|---------|
| Course Code | Course Name | Group | Teaching Scheme (Hrs/week) | | | Credits |
| | | | L | T | P | |
| EL61 | VLSI Design | PC | 3 | 1 | -- | 4 |
| EL62 | Power Electronics | PC | 3 | 1 | -- | 4 |
| EL63 | Fundamentals of Operating System | PC | -- | -- | -- | -- |
| ELL61 | VLSI Design Lab | PC | -- | -- | 2 | 1 |
| ELL62 | Power Electronics Lab | PC | -- | -- | 2 | 1 |
| ELL63 | Fundamentals of Operating System Lab | PC | -- | 1 | 2 | 2 |
| EL164 | Signal Processing Lab | PC | -- | -- | 2 | 1 |
| EL165 | Communication Engineering Lab | PC | -- | 1 | 2 | 2 |
| ELP66 | Minor Project II | PR | -- | -- | 2# | 1 |
| HSS61 | Advanced Communication Skills | HSS | 2 | 2 | -- | 3 |
| OE ⁴ | Open Elective @ | OE | 1@ | -- | 2@ | 2@ |
| SDX | SCOPE Course (Optional) | SD | -- | -- | -- | -- |
| ABL4 | Technical Paper and Patent Drafting (Noncredit) | ABL | -- | -- | -- | -- |
| CEP4 | Problem solving module-III (Optional) | CEP | -- | -- | -- | -- |
| MEC ⁴ | Mandatory Elective Course MEC1: French Language MEC2: German Language | MEC | 2 | -- | -- | 2 |
| | Total | | 10+1@ | 6 | 12+2@ | 21+2@ |



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Bhavan's
Bharat Seva Sangathan

Founded in 1958 by Kalidas Dr. K. M. Munshi with the blessing of Mahatma Gandhi.
आ नो मद्दा : व्यापक विकास ;
Let noble thoughts come to us from every side

SARDAR PATEL INSTITUTE OF TECHNOLOGY

(Autonomous Institute)

Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India
E mail: principal@spit.ac.in website: www.spit.ac.in

Date: 13th December 2017

TO,

Dr. Rajendra R. Sawant
Inventronics Pvt. Ltd.
502, Shubham CHS, Sector 20 D,
Airoli, Navi Mumbai 400708

Subject: Acknowledgement for attending DAB and BoS meeting of Electronics Engineering Department at Sardar Patel Institute of Technology, Andheri (W), Mumbai.

Respected Sir,

We thank you for attending the Board of Studies and Department Advisory Board meeting of Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri (W), Mumbai 400058. We really appreciate your valuable suggestions.

With warm regards,

Dr. S. S. Rathod



Received



Received



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गो नरो मद्दतः कलयो धन्य विद्वतः ।

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SARDAR PATEL INSTITUTE OF TECHNOLOGY

Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India
E-mail: principal@spit.ac.in website: www.spit.ac.in

Date: 13th December 2017

TO,

Dr. Mahesh B. Patil
Professor, Department of Electrical Engineering
Indian Institute of Technology Bombay
Powai, Mumbai

Subject: Acknowledgement for attending DAB and BoS meeting of Electronics Engineering Department at Sardar Patel Institute of Technology, Andheri (W), Mumbai.

Respected Sir,

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With warm regards,

Dr. S. S. Rathod



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अन तो मद्दा : करते थे ये प्रवासी ।
Let noble thoughts come to us from every side

SARDAR PATEL INSTITUTE OF TECHNOLOGY

Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India
E mail: principal@spit.ac.in website: www.spit.ac.in

Date: 13th December 2017

To,

Dr. Baylon G. Fernandes
Professor, Department of Electrical Engineering
Indian Institute of Technology Bombay
Powai, Mumbai

Subject: Acknowledgement for attending DAB and BoS meeting of Electronics Engineering Department at Sardar Patel Institute of Technology, Andheri (W), Mumbai.

Respected Sir,

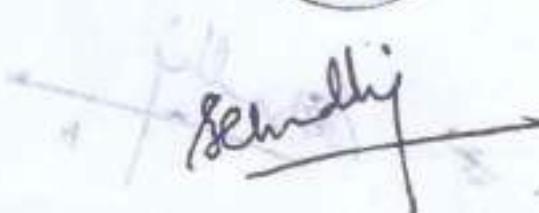
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With warm regards,


Dr. S.S. Rathod






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सति अद्वैत आवश्यक सिद्धांतः ।

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2570 7440

2528 7250

Fax : 91-22- 2570 1422

SARDAR PATEL INSTITUTE OF TECHNOLOGY

Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India

E mail: principal@spit.ac.in website: www.spit.ac.in

Date: 13th December 2017

To,

Dr. Baylon G. Fernandes

Professor, Department of Electrical Engineering

Indian Institute of Technology Bombay

Powai, Mumbai

Subject: Acknowledgement for attending DAB and BoS meeting of Electronics Engineering Department at Sardar Patel Institute of Technology, Andheri (W), Mumbai.

Respected Sir,

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With warm regards,

Dr. S. S. Rathod





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2670 7440
2628 7250
Fax 91-22 2670 1422

SARDAR PATEL INSTITUTE OF TECHNOLOGY

Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India
E mail: principal@spit.ac.in website: www.spit.ac.in

Date: 13th December 2017

TO,

Dr. Mahesh B. Patil
Professor, Department of Electrical Engineering
Indian Institute of Technology Bombay
Powai, Mumbai

Subject: Acknowledgement for attending DAB and BoS meeting of Electronics Engineering Department at Sardar Patel Institute of Technology, Andheri (W), Mumbai.

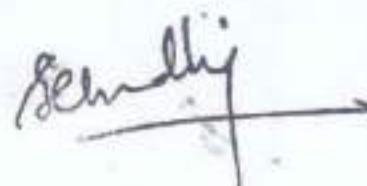
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With warm regards,


Dr. S.S. Rathod




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Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai - 400058 India
 (Autonomous Institute Affiliated to University of Mumbai)

Board of Studies (BoS) of Department of Electronics and Telecommunication Engineering

Year 2017-18

| Sr. No. | Designation | Name |
|---------|--|---|
| 1 | Chairman (Head of the Department) | Dr. Y. S. Rao |
| 2 | Faculty as per Specialization | Dr. Preethi Jain Prof. D. D. Ambawade Prof. Sonkusare Reena |
| 3 | Three subject experts from outside the parent university to be nominated by the Academic Council | Dr. B G Fernandes Dr. M B Patil Dr. Mukul C. Chandorkar |
| 4 | One expert nominated by the vice-chancellor | - |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Mr. Arun V Jalan Dr. R. R. Sawant |
| 6 | One graduate meritorious alumnus | Mr. Bhavin Kamdar Mr. Vishal Dhubal |
| 7 | Experts from outside the college wherever special courses of studies are to be formulated | Dr. Sanjay Dambhare |
| 8 | Other members of staff of the same faculty | Prof. Manish Parmar Prof. Sukanya Kulkarni Prof. A.D Mane Prof. Vijaya Kambale Dr. Amol Deshpande Prof. Milind Paraye Prof. Ganapat Parulekar Prof. Pallavi Malame |

R. Sonkusare

Head

Department of Electronics and Telecommunication
Engineering

2017-18
Principal
Sardar Patel Institute of Technology

BoS Meeting CS and IT Department-S.P.I.T.

Created by anant_nimkar@spit.ac.in Your response: ✓ Yes, I'm going

Time

10am - 1pm (India Standard Time
- Kolkata)

Date

Fri Aug 13, 2021

Delegates

Dear Sir/Madam,

Greetings!

It is our pleasure to invite you as a member of 'Board of Studies (BoS)' of CS and IT Department, Sardar Patel Institute of Technology, Mumbai. The ONLINE meeting of BoS is scheduled on Friday, 13/08/2021 at 10:00 AM through Google Meet.

We assure that your expertise will help us in designing and implementing the program in a successful manner.

The agenda for the meeting is as follows:

1. To discuss the Program Structure of BTech (Computer Engineering) and BTech (Information Technology).
2. To discuss the syllabus of Third and Final Year BTech(ComputerEngineering) and BTech

Guests

- ✓ Anant Nimkar
- ✓ aparna_halbe@spit.ac.in
- ✓ namrata.bhorade@spit.ac.in
- ✓ parashar.amit1983@gmail.com
- ✓ Renuka Pawar
- ✓ varsha_hole@spit.ac.in
aalborg.pnma@gmail.com
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skshinde@rediffmail.com
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(Information Technology).

2. To discuss the Syllabus Structure of

i) BTech in Computer Science and Engineering
(Artificial Intelligence and Machine Learning)

ii) BTech in Computer Science and Engineering
(Data Science)

The scheme and syllabus are attached
herewith.

Regards,

Dr. Anant V Nimkar, HoD (Computer
Engineering)

Dr. Prasenjit Bhavathankar, HoD (Information
Technology)

My Notes

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sunil_ghane@spit.ac.in
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viji.murli@gmail.com
Yerramreddy Srinivasa Rao





MINUTES OF MEETING

| | | | |
|---|---|--|---|
| Meeting Name | Board of Studies meeting for Scheme and Syllabus Discussion of B. Tech (IT), B. Tech(CE) and B. Tech(CSE) | | |
| Date of Meeting | 13-08-2021 | Time | 10.00AM |
| Minutes Prepared By | Prof. Jignesh Sisodia and Prof. Soni B. Bhambhani | Location | Online Google Meeting - meet.google.com/vvc-yxzh-aug |
| Meeting Agenda | | | |
| To discuss the program structure and curriculum of: 1) B Tech Computer Engineering (UG) 2) B. Tech Information Technology (UG) 3) B.Tech Computer Science and Engineering with Artificial Intelligence and Machine Learning Specialization(UG) 4) B.Tech Computer Science and Engineering with Data Science Specialization(UG) | | | |
| Present Members: | | | |
| 1. Dr. Supratim Biswas 2. Dr. Padmaja Joshi 3. Dr. Leena Ragha 4. Dr. M. Vinayalakshmi 5. Mr. Tushar Bansal 6. Mr. Sumee Savla 7. Dr. S. R. Devine 8. Dr. Lalit Singh 9. Dr. Subhash Shinde 10. Dr. Leena Ragha 11. Dr. Parikshit Mahelle 12. Dr. R. R. Sedamkar 13. Mr. Amit Parashar 14. Mr. Siddhant Dalvi 15. Dr. Anant V. Nimkar | 16. Dr. Prasenjit Bhavathankar 17. Dr. Rajendra Sutar 18. Dr. Dhananjay Kalbande 19. Dr. Sudhir Dhage 20. Dr. Pooja Raundale 21. Dr. Preeti Vinayakray 22. Prof. Anand Godbole 23. Prof. Surekha Dholay 24. Prof. Kiran Gawande 25. Prof. Kailas Devadkar 26. Prof. Swapnali Kurhade 27. Prof. Renuka Pawar 28. Prof. Rupali Sawant 29. Prof. Sheetal Chaudhari 30. Prof. Varsha Hole | 31. Prof. Jignesh Sisodia 32. Prof. Jyoti Ramteke 33. Prof. Nataasha Raul 34. Prof. Reeta Koshy 35. Prof. Sunil Ghane 36. Prof. Soni Bhambhani 37. Prof. Abhijeet Salunke 38. Ms. Namrata Bhorade 39. Ms. Nikita Chitre 40. Mr. Harsh Sandesara 41. Mr. Om Shah 42. Mr. Meet Dave 43. Mr. Sagar Badhani 44. Ms. Swathy Nair | |

Discussion

Following are the minutes of the Board of Studies meeting conducted for B. Tech (IT) and B.Tech (CE) Syllabus Revision w.e.f. 2020-21 and B. Tech (CSE) with AIML and Data Science Specialization Scheme w.e.f. 2021-22.

Inauguration

1. Prof. SwapnaliKurhade introduced panel members for Computer and IT Board of Studies.

UG Curriculum Scheme

1. Dr. Rajendra Sutar (Dean of Academics) presented the Scheme for UG Curriculum with Salient features of Syllabus Revision 2020.
2. He informed that UG program B.Tech (IT) is merged with B.Tech (CE) with a total intake of 120 from the academic year 2021-22.
3. He also announced that two new programs B.Tech CSE (AIML) and B.Tech CSE(Data Science) with intake of 60 each is starting from the academic year 2021-22.

Dr. Supratim Biswas

1. Dr. Supratim Biswas appreciated the flexible and comprehensive Curriculum which is catered to various groups of students.
2. He suggested to monitor and take feedback of the proposed flexible and comprehensive curriculum at the end of every semester from students and can be shared in the BoS meeting.
3. Dr. Sutar replied of opting for online MOOC(NPTEL) courses and combining classrooms to assess



- the balance of the faculty load with the new scheme.
- Dr. Supratim Biswas asked to ensure the quality of MOOC courses to be opted by the students. Dr. Sutar informed that the available MOOC courses are reviewed at the beginning of every semester and information is disseminated to the students.
 - He raised the concern about execution of multiple PE courses in the proposed curriculum and suggested that the proper student faculty ratio should be maintained.

Dr. Padmaja Joshi

- Dr. Padmaja Joshi appreciated the Curriculum Structure with salient features like Internship, Open Electives and Program Electives.
- Learning through Industry Projects should be equivalent and mapped to the theory courses.

Dr. M. Vijayalakshmi

- Dr. M. Vijayalakshmi agreed with the concern raised by Dr. Supratim Biswas about quality checks for MOOC courses.

Dr. Parikshit Mahalle

- Dr. Parikshit Mahalle suggested to design a common guideline for Internship and to be shared with students.
- Dr. Sutar informed about the availability of Internship manual along which covers guidelines for evaluation.

Dr. Lalit Singh

- Dr. Lalit Singh asked for the kind of support that the Institute is providing to students for Internship and research projects to which Dr. Sutar replied that the Institute has a dedicated TPO cell to assist students for Internship.
- He also asked about the evaluation criteria for Internship to which Dr. Sutar replied that students are evaluated by Industry and Institute mentors twice a semester.
- Dr. Lalit Singh suggested a portal to be available to external mentors for monthly progress report of the students. Dr. Kalbande informed about the procurement of ERP for the evaluation of Industry Internship.
- Dr. Lalit Singh also suggested that faculties to apply for fetching research grants that can be allocated as a research project for intense research internship (option B) in eighth semester.

Dr. Subhash Shinde

- Dr. Subhash Shinde asked about the Honors Program and mapping of stars to credits. Dr. Sutar explained awarding of stars at different level and minimum of 12 stars required to earn an Honors.
- He suggested Capstone projects to be added to award Honors.

B.Tech Computer - Sem V to VIII Scheme Presentation

- Dr. Anant V. Nimkar presented structure of B.Tech CE and IT and informed the process of designing a detailed syllabus of the course.

B.Tech CSE(AIML) Scheme Presentation

- Dr. Anant V. Nimkar presented structure of B.Tech CSE (AIML) and informed the common scheme for B.Tech CSE (AIML and DS) upto Semester-IV.

Dr. M. Vijayalakshmi

- Dr. M. Vijayalakshmi suggested core courses in AIML and Data Science should be made compulsory for students going for Internship.
- Particularly, Fundamentals of Data Science should be a core subject for both category-1 and category-2 students.



3. Dr. Sutar informed that the Fundamentals of Data Science can be covered in MOOC courses under Program Open Elective.

Dr. Parikshit Mahalle

1. Dr. Parikshit Mahalle suggested to introduce a course on Data Visualization at earlier semester.

Dr. Lalit Singh

1. Dr. Lalit Singh suggested to add advanced mathematical/statistical courses which covers Linear Regression, Logistic Regression, Data Analytics, Hypothesis Testing, Reinforcement Learning and Data Visualization.
2. Dr. Anant Nimkar informed that the Probability and Statistics course is in semester-III and covers all the mentioned topics.

B.Tech IT - Sem V to VIII Scheme Presentation

1. Dr. Prasenjit Bhavathankar presented the scheme and syllabus of B.Tech IT (Sem-V to Sem-VIII).

Dr. R. R. Sedamkar

1. Dr. R. R. Sedamkar enquired about the credits of individual courses and the proposed vertical structure.
2. He asked whether a student can switch from one track to another.
3. Dr. P. Bhavathankar informed that students have flexibility to switch from one track to another and can opt any course from the general track.
4. Dr. R. R. Sedamkar suggested to identify prerequisite core courses to be made compulsory.
5. Dr. P. Bhavathankar informed that semester-I to V covers the prerequisite courses required for Program Elective courses.

Mr. Sumeet Savla

1. Mr. Sumeet Savla commented that "Both CS and IT looks great and are very well balanced, do continue the industry internship and let us know practical experience after implementation of the entire system. Kudos to entire team".

Dr. M. Vijayalakshmi

1. Dr. M. Vijayalakshmi informed Statistics and Mathematics is required for major courses in the domain of AIML and Data Science.
2. Dr. P. Bhavathankar informed that the Probability and Statistics course is in semester-III and Mathematics courses in semester-I and II.

B.Tech CSE(DS) Scheme Presentation

1. Dr. Prasenjit Bhavathankar presented structure of B.Tech CSE (DS) and informed the common scheme for B.Tech CSE (DS) upto Semester-IV.

Dr. R. R. Sedamkar

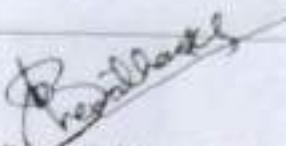
1. Dr. R. R. Sedamkar suggested to create identity for emerging courses and to include fundamental courses like Big data Analytics, Fundamentals of Data Science, Probability and Statistics in third and fourth semester.
2. Dr. Anant Nimkar informed that a survey of Curriculum for B.Tech CSE (AIML and DS) was conducted and it is observed that there are two approaches of Curriculum; where the first approach covers the fundamentals of AIML and DS courses from semester-I and the second approach from semester-V. We adopted second approach and made semester-I to IV common for both B.Tech CSE and B.Tech CE.



Vote of Thanks

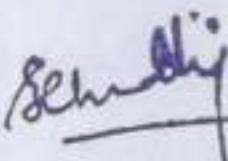
Vote of Thanks was given by Dr Preetida Jani


Dr. Anant V. Nimkar
HOD,
Computer Engineering Department


Dr. Pralenjit Bhavathankar

HOD,
Information Technology Department




Secretary →



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
 (Autonomous Institute Affiliated to University of Mumbai)
 Munshi Nagar, Andheri (W), Mumbai – 400 058.

MINUTES OF MEETING

| | | | |
|----------------------------|--|-----------------|---|
| Meeting Name | Board of Studies meeting for Scheme and Syllabus Discussion of B.Tech (Computer), B.Tech (IT) and M.Tech (Computer) from Academic year 2020-21 | | |
| Date of Meeting | 29/07/2020 | Time | 10.00AM |
| Minutes Prepared By | Prof. Nikahat Mulla and Prof. Soni B. Bhambar | Location | Online Google Meeting - https://meet.google.com/hch-rqyk-fbt |

Meeting Agenda

To discuss the program structure and curriculum of:

- Computer Engineering (UG and PG)
- Information Technology (UG).

Present Members

1. Dr. B. N. Chaudhari, Principal
2. Dr. Yerramreddy Srinivasa Rao, Vice Principal
3. Dr. Rajendra Sutar, Dean Academics
4. Dr. Supratim Biswas, Professor, IIT Bombay
5. Dr. R. K. Joshi, Professor, IIT Bombay
6. Dr. Padmaja Joshi, Senior Director, CDAC,
7. Dr. Lalit Singh, Scientist, BARC, Mumbai
Mumbai
8. Dr. Leena Raghav, Professor, RAIT, Navi Mumbai
(Mumbai University Representative)
9. Dr. M. Vijayalaxmi, Professor, VESIT, Mumbai
10. Dr. S. R. Devane, Professor DMCOE, Navi
Mumbai
11. Dr. Subhash Shinde, Professor, DMCOE, Navi
Mumbai (Mumbai University Representative)
12. Dr. Parikshit Mahalle, Professor, SKNCOE, Pune

13. Dr. R. R. Sedamkar, Professor, TCET, Mumbai
14. Dr. Dhansanjay Kalbande, Dean Industry Relation
15. Dr. Radha Shankarmani, Dean Quality
16. Dr. Anant V. Nimkar, HoD Computer
17. Dr. Prasenjit Bhavathankar, HoD IT
18. Mr. Tushar Bansal (Alumni IT)
19. Mr. Sumeet Savla (Alumni IT)
20. Mr. Siddhant Dalvi (Alumni Computer)
21. Rithika Iyer (Student Representative, Computer)
22. Shubham Sahu (Student Representative,
Computer)
23. Tejss Chheda (Student Representative, Computer)
24. Sarah Sonje (Student Representative, IT)

All senior faculty of Computer and IT department attended the BoS meeting.

Discussion

Following are the minutes of the Board of Studies meeting conducted for B.Tech (Computer), B.Tech (IT) and M.Tech (Computer) Syllabus Revision w.e.f. 2020-21.

Welcome and Introduction of BoS Committee Members

1. Prof. Swapnali Kurhade introduced Principal and panel members of IT and Computer Board of Studies.
2. Principal, Dr. B. N. Chaudhari shared a few words on the need to revisit the curriculum in the light of AICTE recommendations in his key-note address.
3. Dr. Rajendra Sutar (Dean of Academics) presented the proposed Scheme for UG Curriculum and highlighted salient features of new curriculum.

Honours Program

1. Dr. Vijaya Lakshmi appreciated the method adopted by the Institute to offer BTech with Honors.
2. Dr. Biswas suggested expressed the need for sufficient engagement of teachers for preparing students for the GATE exam. He pointed out the importance of training the students on complex questions.
3. Dr. Lalit Singh emphasized on starting the research work in the third semester and continues working for three more semesters, in order to publish good research work in quality journals. He has also mentioned that the stars associated with research publication to be related to the quality of the paper published.
4. Dr. Supratim Biswas suggested that the papers be scrutinized by a faculty panel and accordingly award stars. He also added to start mini projects in second year to improve visibility and outreach of the Institute.
5. Dr. S. R. Devane also suggested students to start working towards research paper publication or on product development at an early stage. He added that entrepreneurship culture would develop by encouraging

students to develop products.

- Dr. Rushikesh Joshi suggested that some coursework could be included along with a high CPI, for offering Degree with Honours. Further, he suggested that CORE ranking, an Australian portal, is a good source for quality publications. In addition, he said if students are not opting for GATE but doing well otherwise, could be credited on equivalent basis.

B.Tech - IT and Computer Common - Scheme Presentation

- Dr. Prasenjit Bhavathankar presented the B.Tech UG Scheme and Syllabus for B.Tech (common for both CE & IT) from Semester I to V. He also presented BTech (IT) courses from Semester VI to VIII.
- Dr. R. R. Sedamkar suggested that the ITP model (Integrated Theory and Practical) of IIIT Hyderabad to be referred for all programming courses.
- All experts emphasized on designing the programming courses with problem-solving approach rather than teaching the programming language per se to implement the algorithms. A list of relevant problems to be listed down and discussed in theory classes.
- Dr. Supratim Biswas suggested that the Data Structures using Python Lab course to be revisited and Object oriented concepts to be included in the syllabus.
- Dr. Leena Ragha suggested that Linux Lab experiments can be added in Operating System instead of floating a special lab for the same.
- Many board members suggested that Probability and Statistics subject to be moved to Semester-III or Semester-IV.
- Dr. R. R. Sedamkar suggested the following structure for programming courses:
Sem 1: Problem-solving using Structured Programming
Sem 2: OOP
Sem 3: Data Structures
Sem 4: Analysis of Algorithms
- Dr. R. R. Sedamkar also suggested to cross check 42 contact hours in the curriculum with 45 contact hours as per UGC norms for 3 credit courses.
- Dr. Rushikesh Joshi, Dr. Parikshit Mahalle and Dr. Supratim Biswas recommended that Theory of Computation should be a separate core subject and it should not be combined with compiler construction.
- Mr. Sumit Salva, Alumni of IT mentioned that the core fundamental courses are important for the students.
- Mr. Tushar Bansal appreciated the concepts of threads/vertical in domain electives.
- Principal, Dr. B. N. Chaudhari concluded that we will revisit the scheme as per suggestions of the board members.

B.Tech Computer – Semester VI to VIII Scheme Presentation

- Dr. Anant Nimkar presented the B.Tech Computer Scheme from Semester VI to VIII.
- Dr. Lalit Singh and Dr. Rushikesh Joshi suggested that Software Engineering course is one of the important core subject. They suggested that the course System Analysis and Design may be replaced with Software Engineering.
- Dr. Leena Ragha suggested that Fundamental of Signal Processing can be an Elective course.

MTech Computer Scheme Presentation

- Dr. Anant Nimkar presented the M.Tech Computer Scheme and discussed the syllabus for Sem I to II.
- Dr. Lalit Singh commented that there is an overlap in the Course contents of Machine Learning, Soft Computing, and Neural Networks in Program Elective Track. Dr. D. R. Kalbande and Prof. Surekha Dholay discussed that the course contents of these courses.

Finally, Dr. Radha Shankarmani concluded the meeting with vote of Thanks.

Dr. Anant V. Nimkar
HOD,
Computer Engineering Department



CC - Dean Academic

Dr. Prasenjit Bhavathankar
HOD,
Information Technology Department

S.P.I.T. Belwadi

BoS Meeting CS and IT Department-S.P.I

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Anant Nimkar

Busy Default visibility

BTech_Syll... BTech_Sch... MTech_Syll...

MTech_Sch... BTech_Sch... BoS Meetin...

BoS Meetin...

Dear Sir/Madam,

The agenda for the meeting is as follows:

1. To discuss the program structure for Computer Engineering (UG and PG) and Information Technology (UG).
2. To discuss the syllabus of semester I & IV of UG Program (Computer Engineering and Information Technology) and semester I & II of PG Program in Computer Engineering.





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
 (Autonomous Institute Affiliated to University of Mumbai)

Department of Information Technology

Constitution of Board of Studies(BOS) for the Academic year 2019-20

| Sr. No. | Designation | Name |
|---------|--|---|
| 1 | Chairman (Head of the Department) | Dr. Radha Shankarmani |
| 2 | Faculty as per Specialization | 1. Prof. Kailas Devadkar (Associate Prof.) 2. Dr. Prasenjit Bhavatankar (Asso. Prof. IT Dept) 3. Prof. Rupali Sawant (Asst. Prof. IT Dept) |
| 3 | Two subject experts from outside the parent university to be nominated by the Academic Council | 1. Dr. R. K. Joshi (IIT Bombay) 2. Dr. Padmaja Joshi (CDAC) |
| 4 | One expert nominated by the vice-chancellor | Dr. Leena Ragha, RAIT |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Mr. Sumeet Savla (Proprietor, Owner - Radix Investment Solutions, Mumbai) |
| 6 | One postgraduate meritorious alumnus | Alumni Representative |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. M. Vijaylaxmi (VESIT) |
| 8 | Other members of staff of the same faculty | 1. Prof. Rupali Sawant 2. Prof. Sheetal Chaudhari 3. Prof. Renuka Pawar 4. Prof. Jignesh Sisodia 5. Prof. Swapnali Kurhade 6. Prof. Varsha Hole 7. Prof. Nikahat Mulla 8. Prof. Aparna Halbe |



Sundarji → 94

B. Bhavatankar
19/11/19

P. Bhavatankar



BharatiyaVidyaBhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
Munshinagar, Andheri(W), Mumbai – 400 058.
(Autonomous Institute Affiliated to University of Mumbai)

IT-BoS

Information Technology Department

List of Board of Studies Members for the Academic Year 2018-19

Members:

1. Dr. Prachi Gharpure, Principal SPIT
2. Dr. Padmaja Joshi, Joint Director CDAC (Domain Expert)
3. Dr. Dhirendra Mishra, Associate Dean , NMIMS-MPSTME, Mumbai (Domain Expert)
4. Dr. S. S. Rathod (Dean Academics)
5. Dr. Radha Shankarmani (Dean Quality Assurance)
6. Prof. Kailas Devadkar (Associate Prof. and Dy. HOD IT)
7. Dr. Prasenjit Bhavathankar (Asso. Prof. IT Dept)
8. Prof. Rupali Sawant (Asst. Prof. IT Dept)
9. Prof. Jignesh Sisodia (Asst. Prof. IT Dept)

Students Members:

1. Kevin Puthusseri
2. Akshat shetty
3. Jaswant pardesi
4. Kaustubh vaidya (Alumni student, Batch 2015-16)



P. Bhavathankar



Bharatiya Vidyalaya's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
 Munshinagar, Andheri(W), Mumbai - 400 058.
 (Autonomous Institute Affiliated to University of Mumbai)

Information Technology Department

Board of Studies Meet on 11th December, 2018

Minutes of Meeting

| | | | |
|----------------------|---------------------|---------------|--------------|
| Meeting Name: | BOARD OF STUDIES | | |
| Date of Meeting | 11/12/2018 | Time: 11 a.m. | |
| Minutes Prepared By: | Prof. Rupali Sawant | Location: | room no. 408 |
| Meeting Agenda: | | | |

1. The curriculum scheme for Semester VII
2. The curriculum scheme for Semester VIII with internship
3. The curriculum scheme for Semester VIII Regular
4. Detail syllabus for semester VII and Semester VIII
5. Proposed Scheme with 160 credits

Present Members:

1. Dr. Prachi Gharpure, Principal SPIT
2. Dr. Padmaja Joshi, Associate Director, CDAC (Domain Expert)
3. Dr. Dhirendra Mishra, Associate Dean, NMIMS-MPSTME, Mumbai (Domain Expert)
4. Dr. S. S. Rathod (Dean Academics)
5. Dr. Radha Shankarmani (Dean Quality Assurance)
6. Prof. Kailas Devadkar (Associate Prof. and Dy. HOD IT)
7. Dr. Prasenjit Bhavathankar (Asso. Prof. IT Dept)
8. Prof. Rupali Sawant (Asst. Prof. IT Dept)
9. Prof. Jignesh Sisodia (Asst. Prof. IT Dept)

Students Members:

1. Kevin Puthusseri
2. Akshat shetty
3. Jaswant pardesi
4. Kaustubh vaidya (Alumni student, Batch 2015-16)



P. Bhavathankar



| Topics | Discussion |
|---|--|
| The curriculum scheme for Semester VII | Dr. Prasenjit Bhavankar introduced the members and welcomed all and then presented the scheme for semester VII. Till semester six 146 credits completed. It was proposed 16 credits for semester VII. |
| The curriculum scheme for Semester VIII with internship | The experts approved the scheme for summer term and semester VIII internship. Dr. Mishra clarified the modality of MOOC course. Dr. Prachi Gharpure suggested that the list of MOOC courses will be displayed on the Department notice board and students will have to choose the course. |
| The curriculum scheme for Semester VIII Regular | <ul style="list-style-type: none"> • Scheme of semester VIII for regular students was presented. • Dr. Padmaja Joshi suggested changing the name of subject UX Design to User Experience Design. |
| Detail syllabus for semester VII and Semester VIII | <ul style="list-style-type: none"> • Dr. Dhirendra Mishra suggested that inclusion of Digital Image Processing course in the syllabus is appreciated as images are being considered as one of the primary data to solve the various societal problems. The content of the syllabus is appropriate. 28 hours will not be sufficient to cover the entire syllabus. So he has suggested to relook into it. He has also suggested to include the list of programming languages as prerequisite in the syllabus copy in order to allow students to conduct the experimentations accordingly. • Dr. Padmaja Joshi suggested that in the course of Data analytics the contents are very similar to Big Data Analytics. The lab also had emphasis on the usage of Hadoop and related tools like Hive etc. It was deliberated and recommended by the board of studies that the focus of subject as well as lab should be more in data analytics than big data tools. • Dr. Padmaja Joshi also suggested that in the course of "IT Infrastructure Management Lab" SDN may not be important experiment in this as they may not have sufficient information about SDN. A visit or exposure to the actual DC may be useful. • Dr. Prachi Gharpure explained the importance of IT infrastructure management and suggested to include latest books in reference. • Dr. Rathod suggested for ZigBee experiment in Ad-hoc and wireless sensor network the hardware can be used from electronics department laboratory. • Dr. Prachi Gharpure Suggested in Artificial Intelligence Lab, identifying and implementing journal paper will be difficult for students. So, faculty can shortlist few papers. |
| Proposed Scheme with 160 credits | <ul style="list-style-type: none"> • Dr. Surendra Rathod explained 160 credit scheme which has to be introduced from the academic year 2019-20 for first year B. Tech. • Dr. Surendra Rathod suggested additional course for fast learners. The student member suggested that for fast learner, choice of subject should be given in such a way that it will not affect their participation in several competitions. Board has deliberated and suggested that segregation of fast and slow learner may not be suitable for student's community. |



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however this can be implemented if the full-fledged choice based credit system is implemented; by that time this proposal can be deferred.

- All experts stated that additional courses for fast learner are not advisable in semester 3 and 4. It could be thought of for higher semester.



P. Bharattwax
P. Bharattwax

P. Bharattwax



**Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
Information Technology Department**

Board of Studies Members for the Academic Year 2017-18

List of BoS members:

1. Dr. Padmaja Joshi, Joint Director CDAC (Domain Expert)
2. Dr. Dhirendra Mishra, Associate Dean , NMIMS-MPSTME, Mumbai (Domain Expert)
3. Dr. Prachi Gharpure Principal , SPIT Andheri
4. Dr. S. S. Rathod (Dean Academics)
5. Dr. Radha Shankarmani (Dean Quality Assurance)
6. Prof. Kailas Devadkar (Associate Prof. and Dy. HOD IT)
7. Prof. Prasenjit Bhavathankar (Asso. Prof. IT Dept)
8. Prof. Rupali Sawant (Asst. Prof. IT Dept)
9. Prof. Sheetal Chaudhari (Asst. Prof. IT Dept)

Students Members:

1. Akshay Raul
2. Atharva Patil



P. Bhavathankar



Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
Information Technology Department

Agenda for Board of Studies Meet on 13th Dec. 2017

We are in the process of setting the syllabus for third year B. Tech. Information Technology programme and have made the first version of our syllabus design.

We would like to discuss the following with the experts.

1. The curriculum flow semester III to Semester VI
2. Total Credits for fifth and sixth semester
3. Lab courses any specific assessment process.
4. Verification of course outcomes
5. Suggestions for minor projects.
6. To get Approval of the changes in the Sem.III (2018-2019) scheme

The Following members attended the meeting

1. Dr. Padmaja Joshi, Joint Director CDAC (Domain Expert)
2. Dr. Dhirendra Mishra, Associate Dean, NMIMS-MPSTME, Mumbai (Domain Expert)
3. Dr. Prachi Gharpure Principal, SPIT Andheri (W) Mumbai 13/12/2017
4. Dr. S. S. Rathod (Dean Academics)
5. Dr. Radha Shankarmani (Dean Quality Assurance)
6. Prof. Kailas Devadkar (Associate Prof. and Dy. HOD IT) 13/12/2017
7. Prof. Prasenjit Bhavathankar (Asso. Prof. IT Dept)
8. Prof. Rupali Sawant (Asst. Prof. IT Dept)
9. Prof. Sheetal Chaudhari (Asst. Prof. IT Dept)

Jan
13/12/17

Students Members:

1. Akshay Raul
2. Atharva Patil

A. Raul
Atharva



P. Bhavathankar



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The following suggestions are given by the experts in the Board of Studies meeting conducted on 13th December, 2017:

1. For the common subject lesson plan and the content delivery should be decided by the concerned faculties.
2. For the lab courses the tutorial can be conducted by using different teaching methodologies such as flip class rooms, preparing summary reports and conducting quizzes on the video lectures.
3. Minor project-I content is to be modified based on software Engineering concepts and internet technology and mobile application development.
4. Project mentor should be decided by the students based on the topics presented by the faculties.
5. Suggestions were given for modifying course outcomes in few courses.
6. Recent book editions to be referred for the courses.
7. For software testing course the content should be modified based on various certification courses in software testing.
8. End Semester Examination should be conducted for sixty Marks.
9. For Lab courses MSE and ESE should not be conducted.

Dr. Dhirendra Mishra

Dr. Padmaja Joshi



P. Bhavatkar

University of Mumbai



Affiliation Section
No. AFE/ICD/19/20/1556
05th November, 2019

Lic:

The Principal,
Bhartiya Vidya Bhavan's,
Sardar Patel Institute of Technology,
Bhavan's Campus, Munshi Nagar,
Andheri (W),
Mumbai- 400 058.

S. P. L.T.
Inward No. 284
Date 31/11/19
Dept _____

Sub: Appointment of nominees on statutory bodies of Autonomous College

Sir,

As per University Grants Commission Regulation 2018 below mentioned are the members on the various statutory bodies nominated by the Hon'ble Vice-Chancellor. The tenure of Board of Studies members college will be for Three years from the date of nomination.

BOARD OF STUDIES:

| Subject | Name of Member |
|---|--|
| Computer Engineering | Dr. Subhash Shinde Lokmanya Tilak College of Engineering, Navi Mumbai |
| Information Engineering | Dr. Leena Raghav Ramrao Adik Institute of Technology, Navi Mumbai |
| Electronics & Telecommunication Engineering | Dr. Nirmal Jagannath K. J. Somaiya College of Engineering, Vidyavihar |
| Electronics Engineering | Dr. S. S. Munde Don Bosco Institute of Technology Kurla |
| Master of Computer Application | Dr. Suhasini Kettur Bharati Vidyapeeth's Institute of Management & Information Technology, Navi Mumbai |

The Director of the Institute is being informed about your appointment as University nominee on the Board of Studies members of the institute. He is also being requested to intimate to you the date and time of the meeting of the Board of Studies members and to send the agenda papers for the meeting.

The T. A. and D. A., if any, due to you for attending the meeting of the Board of Studies members will be paid by the institute, as per the rules.

You are requested to kindly maintain the terms of the above nominated members in various statutory bodies on your institute as per UGC Regulation 2018.

Yours faithfully,



(Jaydatt Jadhav)
Assistant Registrar
Affiliation Section



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

| Meeting Name: | Board of Studies/ DAB Meeting | | |
|---|---|-------|---------------------|
| Date of Meeting: | 19/05/23 | Time: | 11:00 am to 1:00 pm |
| Place: | Offline (in room number 310) + Online https://meet.google.com/zea-qxvv-mye?hs=122&authuser=0 | | |
| Attendees: | As per table given | | |
| Minutes Prepared by: | Sneha Weakey | | |
| A meeting of Department Advisory Board and Board of Studies (Electronics and Telecommunication Engineering) was held on 19 th May 2023 in hybrid mode (offline in Room No. 310 and Online : https://meet.google.com/zea-qxvv-mye?hs=122&authuser=0) at Sardar Patel Institute of Technology, Andheri West Mumbai. Minutes of meeting are as follows, | | | |
| Meeting Agenda | Discussion | | |
| | Dr. Reena Sonkusare welcomed all the BOS members and faculty members of Electronics and Telecommunication Engineering. She informed about the agenda of the meeting. | | |
| MoM and action taken for meeting 11-8-21 | Dr. Reena Sonkusare informed the board members about the action taken for the BOS meeting dated 11/8/2021. | | |
| Vision, Mission, PSO, Present EXTC Scheme | Dr. Reena Sonkusare started with current Vision, Mission, and Program Specific outcomes. She informed the board members about current curriculum roadmap of EXTC scheme, syllabus, course credits distribution, balanced load distribution and academic diversity. | | |
| To discuss the Program specific outcomes (PSO) | Dr. Reena Sonkusare explained about the feedback received from external auditors about the PSO and the need to revisit according to current curriculum roadmap. She presented the proposed PSO. Dr. Abhay Gandhi suggested that PSO1 and PSO2 seems similar, and the wordings could be changed. Dr Sudhakar Mande suggested that "Open source" can be included in PSO2. Dr. Abhay Gandhi was interested to know which open-source tools are being used and further suggested using "modern software tools" in PSO2. Dr. B. N. Chaudhari suggested to include "electronic circuit and system" instead of "Prototype" in PSO2. | | |
| To propose a 3 credit one Program core course in Sem VII | Dr. Reena Sonkusare informed all the Board members about a 3 credit one Program core course of Mobile and Wireless Communication to be introduced in Sem VII, to have 160-Credit Liberal Engineering Education Model. Course contents, TE and BE schemes was approved unanimously by all the board members. Dr. B. N. Chaudhari suggested to rename "Power Electronics" course in sixth semester as "Fundamentals of Power Electronics". He suggested to revisit the Program Elective vertical of Power Electronics & Energy Systems. He also suggested to include "Wavelets" or "Random signal Processing" courses in Signal Processing thread. Dr Sudhakar Mande suggested IC & MEMS technology course should be included in VLSI & Embedded track. He suggested introducing a Real Time Embedded system course and rename "Analog CMOS VLSI Design" as "Mixed CMOS VLSI Design". | | |





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| | |
|--|---|
| | <p>Dr. Y. S. Rao suggested to visit all the Program Electives along with Domain experts.</p> |
| To discuss the minor changes in the syllabus of Internet of Things Laboratory, Analog and Digital Communication, Information theory and Coding and Space Communication technologies. | <p>Dr. Reena Sonkusare presented the syllabus for the following theory and lab courses:</p> <ul style="list-style-type: none"> • Internet of Things Laboratory (Sem V) • Analog and Digital Communication (Sem V) • Information Theory and Coding (Sem VI) • Space Communication and Technologies (Sem VII) <p>Course content and scheme was approved unanimously and will be implemented from 2023-24 onwards.</p> |
| | <p>Dr. Reena Sonkusare continued with the highlights of department's achievements. Student representative appreciated the minor changes made in the scheme and syllabus.</p> |

Dr. Reena Sonkusare

HOD EXTC

Dr. Y. S. Rao

Dean Academics

Dr. B. N. Chaudhari

Principal





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

The Board of Studies (BOS/DAB) Meeting

Minutes of the Meeting dated 19th May 2023

Attending Members:

| Sr. No. | Faculty Name | Abbreviation | Attendance |
|---------|-------------------------|--------------|------------|
| 1 | Dr. Kumar Appalah, IITB | KA | Present |
| 2 | Dr. P. Chaporkar, IITB | PC | Absent |
| 3 | Dr. A. G. Kothari, VNIT | AK | Absent |
| 4 | Dr. Abhay Gandhi, VNIT | ASG | Present |
| 5 | Dr Sudhakar Mande | SM | Present |
| 6 | Anuj Chavan | AC | Present |
| 7 | Khushi Patni | KP | Absent |
| 8 | Dr. B. N. Chaudhari | BNC | Present |
| 9 | Dr. Y.S. Rao | YSR | Present |
| 10 | Dr. R.R. Sawant | RRS | Present |
| 11 | D.D. Ambawade | DIDA | Absent |
| 12 | Dr. Reena Sonkusare | RS | Present |
| 13 | Dr. Sukanya Kulkarni | SK | Present |
| 14 | Manish Parmar | MIMP | Present |
| 15. | Dr. Sujata Kulkarni | SSK | Present |
| 16 | Dr. Anand Mane | ADM | Present |
| 17 | Vijaya Kamble | VNK | On leave |
| 18 | Milind Paraye | MP | Absent |
| 19 | Dr. Amol Deshpande | AD | Present |
| 20 | Pallavi Malame | PM | Present |
| 21 | Sneha Weakey | SW | Present |
| 22 | Prof. Kiran Talele | KT | Present |
| 23 | Dr. Narendra Bhagat | NAB | Present |
| 24 | Dr. Prashant Kasambe | PK | Present |
| 25 | Prof. Payal Shah | PS | Present |
| 26 | Prof. Priya Deshpande | PD | Present |
| 27 | Prof. Najib Ghatte | NG | Present |
| 28 | Prof. Manisha Bansode | MB | Present |
| 29 | Dr. Deepak Karia | DK | Present |
| 30 | Dr. R. G. Sutar | RGS | Present |

The agenda for the meeting:

1. To discuss the program specific outcomes (PSO)
2. To propose a 3 credit one Program core course in Sem VII.
3. To discuss the minor changes in the syllabus of ADC, ITC, IOT & Embedded systems (attached for your reference)





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
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| Meeting Name: | Board of Studies/ DAB Meeting |
|--|---|
| Date of Meeting: | 19/05/23 Time: 11:00 am to 1:00 pm |
| Place: | Offline (in room number 310) + Online https://meet.google.com/zea-qxvv-mye?hs=122&authuser=0 |
| Attendees: | As per table given |
| Minutes Prepared by: | Sneha Weakey |
| A meeting of Department Advisory Board and Board of Studies (Electronics and Telecommunication Engineering) was held on 19 th May 2023 in hybrid mode (offline in Room No. 310 and Online : https://meet.google.com/zea-qxvv-mye?hs=122&authuser=0) at Sardar Patel Institute of Technology, Andheri West Mumbai. Minutes of meeting are as follows | |
| Meeting Agenda | Discussion |
| | Dr. Reena Sonkusare welcomed all the BOS members and faculty members of Electronics and Telecommunication Engineering. She informed about the agenda of the meeting. |
| MoM and action taken for meeting 11-8-21 | Dr. Reena Sonkusare informed the board members about the action taken for the BOS meeting dated 11/8/2021. |
| Vision, Mission, PSO, Present EXTC Scheme | Dr. Reena Sonkusare started with current Vision, Mission, and Program Specific outcomes. She informed the board members about current curriculum roadmap of EXTC scheme, syllabus, course credits distribution, balanced load distribution and academic diversity. |
| To discuss the Program specific outcomes (PSO) | Dr. Reena Sonkusare explained about the feedback received from external auditors about the PSO and the need to revisit according to current curriculum roadmap. She presented the proposed PSO. Dr. Abhay Gandhi suggested that PSO1 and PSO2 seems similar, and the wordings could be changed. Dr. Sudhakar Mande suggested that "Open source" can be included in PSO2. Dr. Abhay Gandhi was interested to know which open-source tools are being used and further suggested using "modern software tools" in PSO2. Dr. B. N. Chaudhari suggested to include "electronic circuit and system" instead of "Prototype" in PSO2. |
| To discuss the minor changes in the syllabus of Internet of Things Laboratory, Analog and Digital Communication, Information theory and Coding and Space Communication technologies. | Dr. Reena Sonkusare presented the syllabus for the following theory and lab courses: <ul style="list-style-type: none"> • Internet of Things Laboratory (Sem V) • Analog and Digital Communication (Sem V) • Information Theory and Coding (Sem VI) • Space Communication and Technologies (Sem VII) Course content and scheme was approved unanimously and will come into effect from 2023-24 onwards. |
| | Dr. Reena Sonkusare continued with the highlights of department's achievements. Student representative appreciated the minor changes made in the scheme and syllabus. |

Dr. Reena Sonkusare

HOD EXTC

Dr. Y. S. Rao

Dean Academics

Dr. B. N. Chaudhari

Principal





Sardar Patel Institute of Technology
 Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
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The Board of Studies (BOS/DAB) Meeting

Minutes of the Meeting dated 19th May 2023

Attending Members:

| Sr. No. | Faculty Name | Abbreviation | Attendance |
|---------|-------------------------|--------------|------------|
| 1 | Dr. Kumar Appalah, IITB | KA | Present |
| 2 | Dr. Chulkar, IITB | PC | Absent |
| 3 | Dr. A. G. Kothari, VNIT | AK | Absent |
| 4 | Dr. Abhay Gandhi, VNIT | ASG | Present |
| 5 | Dr Sudhakar Mande | SM | Present |
| 6 | Anuj Chavhan | AC | Present |
| 7 | Khushi Patni | KP | Absent |
| 8 | Dr. B. N. Chaudhari | BNC | Present |
| 9 | Dr. Y.S. Rao | YSR | Present |
| 10 | Dr. R.R. Sawant | RRS | Present |
| 11 | D.D. Ambawade | DDA | Absent |
| 12 | Dr. Reena Sonkusare | RS | Present |
| 13 | Dr. Sukanya Kulkarni | SK | Present |
| 14 | Manish Parmar | MMP | Present |
| 15 | Dr. Sujata Kulkarni | SSK | Present |
| 16 | Anand Mane | ADM | Present |
| 17 | Vijaya Kamble | VNK | On leave |
| 18 | Milind Paraye | MP | Absent |
| 19 | Dr. Amol Deshpande | AD | Present |
| 20 | Pallavi Malame | PM | Present |
| 21 | Sneha Weakey | SW | Present |
| 22 | Prof. Kiran Talele | KT | Present |
| 23 | Prof. Narendra Bhagat | NAB | Present |
| 24 | Dr. Prashant Kasambe | PK | Present |
| 25 | Prof. Payal Shah | PS | Present |
| 26 | Prof. Priya Deshpande | PD | Present |
| 27 | Prof. Najib Ghatte | NG | Present |
| 28 | Prof. Manisha Bansode | MB | Present |
| 29 | Dr. Deepak Karia | DK | Present |

The agenda for the meeting:

1. To discuss the program specific outcomes (PSO)
2. To propose a 3 credit one Program core course in Sem VII.
3. To discuss the minor changes in the syllabus of ADC, ITC, IOT & Embedded systems
(attached for your reference)

Secretary





Reena Kumbhare <reena_kumbhare@spit.ac.in>

Board of Studies Meeting of Electronics and Telecommunication Engineering Department [EXTC] at S.P.I.T on Friday 11.00AM onwards

Reena Kumbhare <reena_kumbhare@spit.ac.in> Wed, May 17, 2023 at 1:49 PM
 To: Sudhakar Mande <ssmande@yahoo.com>, "ssmande1@gmail.com" <ssmande1@gmail.com>, fextc@spit.ac.in, fetrx@spit.ac.in, chaporkar@ee.iitb.ac.in, Kumar Appaiah <kumar@ee.iitb.ac.in>, agkothari72@rediffmail.com, asgandhi@ece.vnit.ac.in, Anuj Chavan <anuj.chavani@spit.ac.in>, Khushi Patni <khushi.patni@spit.ac.in>
 Cc: "Academics S.P.I.T." <academics@spit.ac.in>, Yerramreddy Srinivasa Rao <yrsrao@spit.ac.in>, "Dr. Pooja Raundale" <pooja@spit.ac.in>, "Dr. B. N. Chaudhan" <bnc@spit.ac.in>, Dhananjay Kalbande <drkalbande@spit.ac.in>, Prasenjit Bhavathankar <p_bhavathankar@spit.ac.in>

Dear Sir/Madam,

Greetings of the Day !!

It is our pleasure to invite you to 'The Board of Studies (BOS/DAB)' of the Electronics and Telecommunication Engineering Department (EXTCML), Sardar Patel Institute of Technology, Andheri (West), Mumbai 400 058. The meeting of BOS is scheduled on Friday, 19/05/2023 at 11.00 am onwards in Room No. 310 or in Online Mode. We are sure that your expertise will help us in designing and implementing the program in a successful manner. I hereby request you to kindly confirm your availability and presence for the same.

The agenda for the meeting is as follows:

1. To discuss the program specific outcomes (PSO)
2. To propose a 3 credit one Program core course in Sem VII.
3. To discuss the minor changes in the syllabus of ADC, ITC, IOT & Embedded systems (attached for your reference)

Kindly find the Google Meet joining info

Video call link: <https://meet.google.com/zea-qxyy-mye?hs=122&authuser=0>

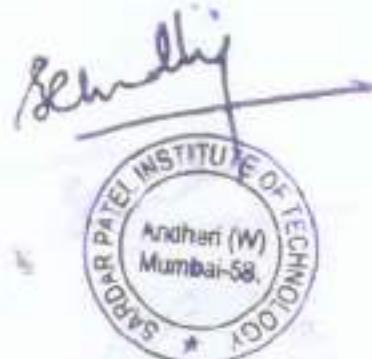
Date Friday, 19th May 2023
 Time- 11.00 am onwards

Looking forward to your cooperation,

Thanks and Regards

Dr. Reena Sonkusare
 Head & Associate Professor
 Electronics and Telecommunication Department
 Sardar Patel Institute of Technology (S.P.I.T.)
 Bhavan's Campus, Andheri (W), Mumbai 400056
 Tel. 2627250 (Ext. 382) / 8850287922 (M)
 Vision : To produce Telecommunication Engineers capable of effectively using the scientific and technical knowledge for the betterment of society.

Modified_Syllabus 2023-24.pdf
 908K





Sardar Patel Institute of Technology

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(Autonomous Institute Affiliated to University of Mumbai)

Board of Studies (BoS) of Department of Electronics and Telecommunication Engineering

Year 2022-23

| Sr. No. | Designation | Name |
|---------|---|---|
| 1 | Chairman (Head of the Department) | Dr. Reena S. Sonkusare (Asso. Prof.) |
| 2 | Faculty as per Specialization | Dr. Y. S. Rao (Professor) Dr. Sukanya Kulkarni (Asso. Prof.) Dr. Sujata Kulkarni (Asso. Prof.) Prof. D. D. Ambawade (Asso. Prof.) Dr. Rajendra G. Sutar (Asso. Prof.) Dr. Deepak C. Karia (Asso. Prof.) Prof. K. T. Talele (Asso. Prof.) Prof. Narendra A. Bhagat (Asso. Prof.) |
| 3 | Two subject experts from outside the Parent University to be nominated by the Academic Council. | Dr. Prasanna Chaperkar (IIT Bombay) Dr. Kumar Appaiah (IIT Bombay) |
| 4 | One expert nominated by the vice-chancellor | Dr. S. S. Mande (DBIT Kurla) |
| 5 | One representative from industry/corporate sector/allied areas relating to placement | Mr. Ranjeeth C.V. |
| 6 | One graduate meritorious alumnus | Mr. Sagar Sawant |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. Ashwin G Kothari (VNIT) Dr. A. S. Gandhi (VNIT) |
| 8 | Other members of staff of the same faculty | Prof. Manish Parmar (Asso. Prof.) Prof. A D Mane (Asst. Prof.) Dr. Amol Deshpande (Asst. Prof.) Prof. Milind Paraye (Asst. Prof.) Prof. Pallavi Malame (Asst. Prof.) Prof. Sneha Weakey (Asst. Prof.) Prof. Prashant Kasambe (Asst. Prof.) Prof. Govind T. Haldankar (Asst. Prof.) Prof. Payal Shah (Asst. Prof.) Prof. Marisha Bansode (Asst. Prof.) Prof. Priya Deshpande (Asst. Prof.) Prof. Najib Ghaité (Asst. Prof.) |
| 9 | Current BE Students | Chavan Anuj Prafulla Patni Khushi Navin |

Head

Department of Electronics and Telecommunication
Engineering

Principal

Sardar Patel Institute of Technology





Sardar Patel Institute of Technology
 Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
 (Autonomous Institute Affiliated to University of Mumbai)

**Board of Studies (BoS) of Department of Electronics and
 Telecommunication Engineering**

Year 2022-23

| Sr. No. | Designation | Name |
|------------|---|---|
| 1 | Chairman (Head of the Department) | Dr. Reena S. Sonkusare (Asso. Prof.) Dr. Y. S. Rao (Professor) Dr. Sukanya Kulkarni (Asso. Prof.) Dr. Sujata Kulkarni (Asso. Prof.) Prof. D. D. Ambawade (Asso. Prof.) Dr. Rajendra G. Sutar (Asso. Prof.) Dr. Deepak C. Karia (Asso. Prof.) Prof. K. T. Talele (Asso. Prof.) Prof. Narendra A. Bhagat (Asso. Prof.) |
| 2 | Faculty as per Specialization | |
| 3 | Two subject experts from outside the Parent University to be nominated by the Academic Council. | Dr. Prasanna Chaporkar (IIT Bombay) Dr. Kumar Appaiyah (IIT Bombay) |
| 4 | One expert nominated by the vice-chancellor | Dr. Kushal Tuckley (IIT Bombay) Dr. Uday Pandit Khot (SFIT Mumbai) Dr. S. S. Mande (DBIT Kurla) Dr. Shrinivas P Mahajan (COEP) Dr. Amit Deshmukh (DJSCE) Dr. Mr. P. P. Bartakke (COEP) |
| 5 | One representative industry/corporate sector/allied relating to placement | Mr. Ranjeeth C.V. |
| 6 | One graduate meritorious alumnus | Mr. Harshal Sardeshmukh Mr. Prathamesh Pitankar Mr. Sagar Sawant Ms. Ipsita Bhattacharya Mr. Abhijeet Gokhale |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. Ashwin G Kothari (VNIT) Dr. A. S. Gandhi (VNIT) |
| 8 | Other members of staff of the same faculty | Prof. Manish Parmar (Asso. Prof.) Prof. A. D. Mane (Asst. Prof.) Dr. Amol Deshpande (Asst. Prof.) Prof. Milind Pataye (Asst. Prof.) Prof. Pallavi Misra (Asst. Prof.) Prof. Sneha Wankey (Asst. Prof.) Prof. Prashant Kasambe (Asst. Prof.) Prof. Govind T. Haldankar (Asst. Prof.) Prof. Payal Shah (Asst. Prof.) Prof. Manisha Bansode (Asst. Prof.) |





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Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
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| | | |
|---|---------------------|---|
| | | Prof. Priya Deshpande (Asst. Prof.) Prof. Najib Ghatte (Asst. Prof.) |
| 9 | Current BE Students | L V Adin Chaluvadi Ankit Datta Vansh Jain Kaustubh Venkatesh Pujan Soni Pulkit Chaudhari |

Head

Department of Electronics and Telecommunication
Engineering

Principal

Sardar Patel Institute of Technology

Dr.





Sardar Patel Institute of Technology
Department of Electronics and Telecommunication

| | |
|--|--|
| Meeting Name: | BoS meeting (for Electronics and EXTC departments) |
| Date of Meeting: | 11/8/21 Time: 9.30am - |
| Place: | Online https://meet.google.com/bsp-ejhh-zkt |
| Attendees: | As per above table |
| Minutes Prepared by: | Pallavi Nair |
| <p>With Permission of Dr. Sutar Dean Academics and Dr. YS Rao the BOS meeting was commenced. The members were addressed by Dr. Reena Sonkusare , HOD EXTC.BOS members were requested to give their valuable inputs.</p> | |
| Meeting Agenda | Discussion |
| 1. Confirmation of BOS meeting dated 28/7/20 | <ul style="list-style-type: none"> 1) Approved |
| 2. 3rd year and Final Year Proposed Syllabus Approval for AY 2021-2022 and AY 2022-2023, EXTC Department | <ul style="list-style-type: none"> 1) Dr. Reena Gave Brief about the syllabus of EXTC for third year and final year 2) Dr. Reena explained the syllabus breakdown in details 3) Dr. Rathod with permission of chair asked for detail explanation of the scheme. Question asked : Are the Program elective MOOC available for both categories or just category 2? Dr. Sutar Replied: PE is depended upon the number of students opting for the course(At least 15 students should be there). Suggestion from Rathod sir to make the instructions clear in the syllabus. Dr. Rao sir suggested Cat1 and Cat 2 will have different set of rules due to nature of the student choices. 4) Dr. Rathod wanted the list of PE elective courses which was shown by Dr. Reena. Sir requested the explanation for nature of marks distribution. He requested policy be cleared and shared. 5) Question raised regarding PEO and syllabus mapping. Dr. Sutar replied that a target is set for the subject teacher. 6) Dr. Rathod raised questions regarding syllabus not being discussed in department meeting. 7) Dr. YS Rao requested faculty to give inputs after the presentation by Dr. Reena, Prof. Dnyaneshwar Kamble voiced the opinion and agreed. 8) Dr. Reena Continued with the presentation of syllabus. |
| 3. 3rd year and Final Year Proposed Syllabus Approval for AY 2021-2022 and AY 2022-2023, ETRX Department | <ul style="list-style-type: none"> 1) Dr. Karia continued presenting semester 6 electronics syllabus. |
| Address by Prof. Rao | <ul style="list-style-type: none"> 1) Dr.YS Rao addressed the committee and explained about Bhartiya Vidya Bhavan's values and ethics. Syllabus made taking into consideration strength and weakness of S.P.I.T 2) Effort taken to exchange EXTC and Electronics faculty and student 3) BOS committee were given information about merger of department |

B2





Sardar Patel Institute of Technology
Department of Electronics and Telecommunication

| | |
|--|--|
| | <p>by Prof. Rao.</p> <p>4) Involvement of external institutes and industry for betterment of system at S.P.I.T.</p> <p>5) Dr. Rao opened the forum for the committee for questions</p> |
| Discussion | <p>1) Comment by Prof. Kumar Appalah (IIT B): Well thought out syllabus, minor suggestions that can be implemented.</p> <p>2) Prof. Kamble: How to engage with industry regarding topic of metamaterial. IOT can be shifted to lower semesters, lab can include experiments taking industry into consideration</p> <p>3) Comment by Dr. Mande: Well thought out syllabus. Question asked regarding Blooms taxonomy limit, why design level is not touched upon. Long internship idea is good. Category two students are missing major subjects like IOT, Antenna design. What can be done about that? Thread courses should go for all students, so we can offer it in different semesters. Are all PO of NBA covered up by CO throughout all the syllabus?</p> <p>4) Dr. Rao replied to Dr. Mande Across thread jumping is possible flexibility is there. Blooms taxonomy can be dealt with later first needs of students need to be catered. Analysis of MOOC courses needs to be done.</p> <p>5) Prof. Lande spelling mistakes in Subject of ADC (Baseband) Control system: Instead of Apply it should be Study in CO, CS syllabus needs to be revised. Optical Courses: nonlinear effects should be added.</p> <p>6) Netra Trivedi (Alumni): Batches that are coming will have organised syllabus, it will be great for them.</p> <p>7) Nisha Vasant(Alumni): Exhaustive list will be effective for placement procedure</p> <p>8) Kunal Sanghvi (Alumni): Syllabus looks apt. It will help future generation</p> |
| Address by Principal and Chairman BOS | <p>1) Principal and Chair Dr. BN Chaudhari thanked the committee.</p> <p>2) He thanked the S.P.I.T for gracefully accepting the merger of department. Strong core needed to develop verticals. Verticals planned are relevant for market and industry. Micro specialization is now possible. Students will have freedom and flexibility to choose subject. This syllabus will ensure that students become expertise. Addressing blooms level is difficult and challenging to ensure their implementation. Faculty members requested to tackle the blooms level issue with genuinely. Text books needs to be recent and revision needed. Laboratory components should be exhaustive and must ensure at least 12 (24 hours experimentation must be ensured with students).</p> <p>3) He thanked team for the contribution. And requested alumni to give feedback regarding the syllabus at a later stage as well.</p> <p>4) Comment from senior faculties: Prof. Kasambe -NBA curriculum data is required syllabus doesn't have details required, table are required for mark distribution. Can we have representation of marks data in form of table for all subjects in the scheme? Second observation: In semester 6, power electronics all subjects are coming in same semester and how it will be taught? Dr. Chaudhari replied that because of category creation such decision was taken as the course maybe missed by the students' courses won't be repeated. Prof. Kasambe raised query regarding syllabus being same for power electronics and power converter. Dr. BN</p> |



Sardar Patel Institute of Technology
Department of Electronics and Telecommunication

Chaudhari and Dr. Sutar ensured there won't be overlap. Weightages of marks will be shared. Faculty has flexibility in making the subject. Marking scheme will be provided for Mini project or major project. Syllabus pdf can be made dynamic to navigate through pages : suggestion by Prof. Kasambe. Booklet for program can be made, Prof. Kasambe were asked by Prof. BN Chaudhari to take up the work of dynamic syllabus pdf. Prof. Kasambe requested PEO mapping explanation by Prof. BN Chaudhari.

- 5) Dr. Rathod gave few suggestions: i) Syllabus needs to be discussed in the department, as the content was displayed a day before. Requested to display and discuss syllabus with faculty. ii) Internship policy is not clear. It should be created and has to be circulated among the stakeholder. iii) Question raised earlier in the meeting: regarding mooc as program elective? iv) Table changed without discussion with the former convener, hearty request to remove PED to CO mapping. CO - PO mapping to be removed as the teacher will have flexibility to modify later on. Blooms taxonomy table needs to be removed; wrong impression created as some courses are wrongly mapped. It is assessment level why it is part be curriculum? V) Java programming courses: Why it is offered? Linux programming or other courses not offered. VI) ADC course syllabus needs revision, why it is compulsory for both branches? Why both subjects are combined ? vii) CO are not all measurable ex. Power Electronics syllabus needs to be revised. VIII) With effective from 2021, footer and title needs to be corrected. IX) PE/OE subjects policy needs to clear. X) OE is bucket has 18 subjects, but feasibility is questionable. Only few percentages of courses are available for CS/IT. Cloud computing prerequisites not completed. Flow chart needs to be created. XI) titles are confusing, syllabus and scheme not matching. Request to have meeting in the department.
- 6) Dr. BN Chaudhari replied : Department level meeting has to happen and HOD needs to do discussion before presenting to the BOS in order to avoid minor mistakes. Open meeting needs to be taken. ii) Due notification to third year students has to be given regarding internship. iii) CBE is not rigid, Indicative tables are given. Challenges of blooms taxonomy are there and will addressed with time. CO needs to be revisited. IV) Courses needs to be revisited. Spelling mistakes and minor changes needs to be made. Sample curriculum/CO framing be made by Prof. Kasambe and Prof. Rathod.
- 7) HODs agreed to keep a department meeting.
- 8) Inhouse research needs to be done. Research Projects are meant for that.

Concluding Remark: Dr. Reena Sonkusare gave vote of thanks by expressing gratitude towards the board of studies member and the S.P.I.T team.

Dr. Reena Sonkusare

HOD EXTC

Dr. Rajendra G. Sutar

Dean Academics





Sardar Patel Institute of Technology
Department of Electronics and Telecommunication

Board of Studies

Minutes of the Meeting

Attending Members:

| | | | |
|----------------------------|--------------------|--------------------|----------|
| Pallavi Malame | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| abhijitgokhale | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Dattatray Sawant | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Dayanand Ambawade | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Deepak Karia | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Dr. Amol Deshpande | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Kunal Sanghvi | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Manisha Bansode | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Najib Ghatte | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Netra Trivedi | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Nisha Vasant | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Prashant Kasambe | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Priya Deshpande | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Prof. B. K. Lande | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Rajendra Sutar | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Reena Kumbhare | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Reena KumbharePresentation | 8/11/2021 9:45:37 | 8/11/2021 10:31:02 | 00:45:25 |
| Sneha Weakey | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Sudhakar Mande | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Sujata Kulkarni | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Sukanya Kulkarni | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Surendra Singh Rathod | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Vijaya Kamble | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Yerramreddy Srinivasa Rao | 8/11/2021 9:45:37 | 8/11/2021 10:36:25 | 00:50:48 |
| Dnyaneshwar Kamble | 8/11/2021 10:31:01 | 8/11/2021 10:36:25 | 00:05:24 |
| Dr. B. N. Chaudhan | 8/11/2021 10:31:01 | 8/11/2021 10:36:25 | 00:05:24 |
| Kiran Talele | 8/11/2021 10:31:01 | 8/11/2021 10:36:25 | 00:05:24 |
| Narendra Bhagat | 8/11/2021 10:31:01 | 8/11/2021 10:36:25 | 00:05:24 |
| Payal Shah | 8/11/2021 10:31:01 | 8/11/2021 10:36:25 | 00:05:24 |
| Rajendra Sawant | 8/11/2021 10:31:01 | 8/11/2021 10:36:25 | 00:05:24 |
| Deepak KariaPresentation | 8/11/2021 10:36:24 | 8/11/2021 10:36:25 | 00:00:01 |
| Manish Parmar | 8/11/2021 10:36:24 | 8/11/2021 10:36:25 | 00:00:01 |

Seenujir →





Reena Kumbhare <reena_kumbhare@spit.ac.in>

Common BoS Meeting - 2021

Reena Kumbhare <reena_kumbhare@spit.ac.in>

Tue, Aug 3, 2021 at 8:58 AM

To: akumar@ce.iitb.ac.in

Cc: Yerramreddy Srinivasa Rao <ysrao@spit.ac.in>, Deepak Karia <deepak_karia@spit.ac.in>

Dear Sir,

Greetings of the Day!! Hope this email finds you well.

The Electronics and Electronics & Telecommunication Engineering Departments has scheduled a common BoS meeting to be conducted tentatively on **Wednesday, 11th August 2021 at 9.30am via Google Meet.**

I hereby request you to kindly confirm your availability and presence for the same.

Agenda: 3rd year and Final Year Proposed Syllabus Approval for AY 2021-2022 and AY 2022-2023.

With Warm Regards,

Dr. Reena Sonkusare
Associate Professor
Electronics and Telecommunication Department
Sardar Patel Institute of Technology
Andheri (W)

Vision : To produce Telecommunication Engineers capable of effectively using the scientific and technical knowledge for the betterment of society.

Bhawna 





Reena Kumbhare <reena_kumbhare@spit.ac.in>

Re: Sequence for Tomorrows BoS meet

4 messages

Deepak Karia <deepak_karia@spit.ac.in>

Mon, Jul 27, 2020 at 5:12 PM

To: Rajendra Sutar <rajendra_sutar@spit.ac.in>, Reena Kumbhare <reena_kumbhare@spit.ac.in>

Cc: "Dr. B. N. Chaudhari" <bnc@spit.ac.in>

Dear Sir/Madam,

As decided in today's meeting, the sequence shall be:

1. Dr. R.G.Sutar will welcome the BoS members and will introduce Principal Sir. Then Dr.Sutar will brief about the Agenda of the meeting followed by the showcase of UG (for FE to BE) and PG proposed schemes and First Year Syllabus.
2. Dr. D.C.Karia will present the Proposed Second Year UG syllabus common to both ETRX and EXTC departments.
3. Dr.Reena will present the proposed PG syllabus for the EXTC department.
4. Prof. Pallavi Malame from the EXTC department will propose vote of thanks.

With Warm Regards,

Dr. D.C.Karia, Ph.D. (VJTI)

Associate Professor & HoD

Department of Electronics Engineering

Sardar Patel Institute of Technology

Email: deepak_karia@spit.ac.in, deepakckaria@gmail.com

Tel: 022-26708520/26287250 (Ext:315)

Vision of the Department:

"To create professionally competent engineers, researchers and entrepreneurs in the field of Electronics Engineering for the benefit of society"

Mission of the Department:

- To impart quality engineering education as per the industry need
- To motivate students to undertake research on next generation technologies
- To create an environment that shall foster growth of professionals capable of effectively using the scientific and technical knowledge for the betterment of mankind

Reena Kumbhare <reena_kumbhare@spit.ac.in>

Mon, Jul 27, 2020 at 5:23 PM

To: Deepak Karia <deepak_karia@spit.ac.in>

Cc: Rajendra Sutar <rajendra_sutar@spit.ac.in>; "Dr. B. N. Chaudhari" <bnc@spit.ac.in>

Dear Sir,

We can keep the agenda short and sweet. let me know your view points.

The Agenda of the meeting is:

1. Modified structure of UG
2. First year UG curriculum
3. Second year UG curriculum
4. Modified structure of PG
5. First year PG curriculum
6. Vote of thanks

Regards

(Quoted text hidden)

Dr. Reena Sonkusare

Associate Professor

Electronics and Telecommunication Department

Sardar Patel Institute of Technology

Anand (W)

Vision To produce Telecommunication Engineers capable of effectively using the scientific and technical knowledge for the betterment of society.



Reema

Reena Kumbhare <reena_kumbhare@spit.ac.in>
To: Yerramreddy Srinivasa Rao <ysrao@spit.ac.in>

Mon, Jul 27, 2020 at 8:33 PM

[Quoted text hidden]

Reena Kumbhare <reena_kumbhare@spit.ac.in>
To: Yerramreddy Srinivasa Rao <ysrao@spit.ac.in>

Mon, Jul 27, 2020 at 8:33 PM

----- Forwarded message -----

From: Reena Kumbhare <reena_kumbhare@spit.ac.in>
Date: Mon, 27 Jul, 2020, 5:23 PM
Subject: Re: Sequence for Tomorrows BoS meet
[Quoted text hidden]
[Quoted text hidden]

Comments on SPIT Syllabi

Kumar Appiah

August 10, 2021

Contents

| | |
|--|---|
| 1 B.Tech. (Electronics Engineering) | 1 |
| 1.1 Semester-V | 1 |
| 1.2 Semester VI | 1 |
| 1.3 Semester VII-VIII | 2 |
| 2 B.Tech. (Electronics Engineering) | 2 |
| 2.1 Semester-V | 2 |
| 2.2 Semester-VII | 2 |

1 B.Tech. (Electronics Engineering)

1.1 Semester-V

Analog and Digital Communication: The syllabus is good, but emphasis should be more towards part 4, since that is what modern systems need.

Control Systems: No comments.

Digital Signal Processing: You could consider offering alternate self-study topics, since multirate may not be of interest to all. In addition, mention may be made of digital filter design and using DSP for processing continuous signals.

Electromagnetic Engineering: No comments.

Java programming lab: No comments, although the lab could include one basic example with something practical, like networking, Swing UI etc.

Computer communication networks: No comments.

Digital CMOS VLSI Design: Mention could be made of some EDA tools. No other comments.

Embedded Systems: No comments.



Speech and audio processing: It would be good to include linear prediction and its use in speech codecs.

DSP Processor: No comments,

Power Electronic Converters: No comments

Embedded System Design for Power Converter Applications:
No comments.

1.2 Semester VI

Power Electronics: No comments.

1.3 Semester VII-VIII

Real-time operating systems: No comments

Analog CMOS VLSI Design: It would be good to mention some practical application circuits in addition to amplifiers, such as data converters, phase locked loops etc. as additional building blocks if the syllabus permits.

Image and Video Processing: It would be good if some mention of recent formats such as HEVC, H.265 etc. Need not be covered in detail, but the situations where these are useful could be mentioned. In addition, some of the lab experiments could include studying existing open source codecs and their performance to connect with the course material.

Principles of Soft Computing: No comments,

Networking fundamentals: I am curious as to which application server is covered.

Energy Storage Systems in EV Applications: No comments.

Power Electronic Converters in EV Applications: No comments.

2 B.Tech. (Electronics Engineering)

2.1 Semester-V

(Comments for common courses may be referred above)

Fundamentals of antenna: No comments.

Mobile and Wireless Communication: It would be very useful to cover MIMO here, given its use in various wireless systems.

Microwave Communication: No comments.

Information Theory and Coding: Since this is a theoretical topic, it may be good to also mention (not teach fully, but only mention in passing)



applications such as Zip for compression, Gaussian channels etc. No other comments.

Optical Fiber Communication: No comments.

2.2 Semester-VII

(Comments for common courses may be referred above)

Wireless Sensor Networks: Power, signal processing transmission related constraints may be covered as part of part I.I.

Next Generation Networks: 5G networks and small cells could be covered as part of the syllabus. No change in syllabus needed, though.

Artificial Intelligence and Machine Learning: No comments. I hope that this course has many assignments to drive home concepts.

Telecom Network Operation and Management: No comments.

Sunday
→





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri(West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Board of Studies (BoS) of Department of Electronics and Telecommunication Engineering

Year 2020-21

| Sr. No. | Designation | Name |
|---------|--|--|
| 1 | Chairman (Head of the Department) | Dr. Reena S. Sonkusare |
| 2 | Faculty as per Specialization | Dr. Y. S. Rao Dr. Sukanya Kulkarni Prof. D. D. Ambawade |
| 3 | Three subject experts from outside the parent university to be nominated by the Academic Council | Dr. Prasanna Chapekar Mr. Dnyaneshwar Kamble Dr. Kumar Appaiah |
| 4 | One expert nominated by the vice-chancellor | Dr. Nirmal Jagannath |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Dr. Sunil Bhardwaj Dr. Zia Saquib |
| 6 | One graduate meritorious alumnus | Mr. Harshal Sardeshmukh Mr. Prathamesh Pilankar Mr. Sagar Sawant |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. B G Fernandes Dr. M B Patil Dr. Sanjay Dambhare |
| 8 | Other members of staff of the same faculty | Dr. Sujata Kulkarni Prof. Manesh Parmur Prof. Sukanya Kulkarni Prof. A D Mane Prof. Vijaya Kambale Dr. Amol Deshpande Prof. Vilind Paraye Prof. Pallavi Malame Prof. Sucha Weakley |

R. Sonkusare
Head

Department of Electronics and Telecommunication
Engineering

Principal

S. S. Deshpande

Sardar Patel Institute of Tech





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Electronics and Telecommunication Department

Minutes of Meeting Board of Studies

28-7-20(Tuesday)

(9.30am)

AGENDA:

1. Modified structure of UG
2. First year UG curriculum
3. Second year UG curriculum
4. PG curriculum
4. Vote of thanks

Minutes of the Meeting:

1. Dr.D.C.Karia welcomed all the Members present
2. Dr. B.N. Chaudhari briefed the members about the structure of proposed Pi Model curriculum, where a detailed briefing cum presentation was done by Dean Academics, Dr. R.G. Sutar.
3. Dr. Sutar further presented the UG Scheme for ETRX & EXTC-AY 2020-2021. Based on the discussions and deliberations, the following points are noted and minuted accordingly:
 - a) Introduction of Advanced CAO to be done or check for subject density from student point of view.
 - b) Mini project evaluation methodology policy and result declaration may create for problem input . More thought/review to be given here.
 - c) Since the syllabus for semester -VII is yet to be proposed, the importance of involving subjects under the head of Basic Science Electives should be given a thought.
 - d) Grading of SEVA/SATVA:- Grading Scheme to be decided and challenges to be thought of.
 - e) Max limit should be kept for program electives to be decided (Prof. BGF)
 - f) Engineering Physics CO to be revised
 - g) A subject based on applications to aid the curiosity of students should be given a preference. Chemistry syllabus can be reviewed, some topics are irrelevant. Maths to be taught in an applied way and show ways of application.
4. PG Syllabus presentation by Dr. Reena S, where flexibility in PG Courses, SBC nomenclature to be changed and Selling and Negotiation skills: Review of title of PG Courses to be done was advised.
5. Dr.D.C.Karia and Dr. Reena, ended the meeting by thanking all the members for their valuable inputs.

H.O.D. (EXTC)

DEAN ACADEMICS

PRINCIPAL





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri(West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Board of Studies (BoS) of Department of Electronics and Telecommunication Engineering

Year 2019-20

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R. Sonkusare

Head

Department of Electronics and Telecommunication
Engineering

8-8-8-8-

Principal

Sardar Patel Institute of Technology

Shivaji





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri(West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

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R. Sonkusare

Head

Department of Electronics and Telecommunication
Engineering

3...8...82-

Principal

Sardar Patel Institute of Technology

Sonkusare





Deepak Karla <deepak_karla@spit.ac.in>

List of Examiners & Honorarium

1 message

Yerramreddy Srinivasa Rao <yrsrao@spit.ac.in>
To: Pallavi More <pallavi_more@spit.ac.in>
Cc: Ujwala G <ujwalag@spit.ac.in>, Sangita Fernandes <sangita2006@spit.ac.in>, "Dr. B. N. Chaudhari" <bnc@spit.ac.in>, hdo@spit.ac.in

Wed, Sep 9, 2020 at 10:05 AM

Dear Pallavi,

Please refer the attachment for the list of Experts/Examiners who have attended PhD progress seminar & Board of Studies meetings. We need to pay them honorarium as per the institute norms.

--
Regards,

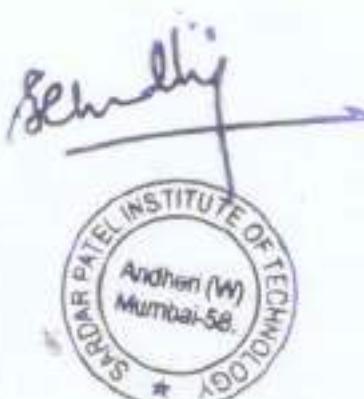
Dr. Y S Rao, PhD (ES-IIT-Bombay)
Vice-Principal,
Sardar Patel Institute of Technology,
Munshi Nagar, Bhavans Campus, Andheri (W), Mumbai-58
022-26708520/2628 7250 (Ext: 380).
Mob: 9820962870

Lecture Videos: <https://www.youtube.com/user/EMTRONTechnologies>

S.P.I.T. Vision

To build a renowned institute which will produce graduate engineers with global competency and social sensitivity.

[PhD Examiners_BoS_Experts Remuneration May to August 2020.pdf](#)
332K



Sheet1

Attendance for: Class List on 2020-07-28

| Names | | 2020-07-28 11:52 | Arrival time |
|---------------------------|---|------------------|------------------------|
| anand mane | ✓ | | 12:03 (0min) [12:03] |
| dr. b. n. chaudhari sir | ✓ | | 11:52 (132min) [14:05] |
| dayanand ambawade sir | ✓ | | 12:06 (13min) [14:05] |
| dnyanesh.kamble74 | ✓ | | 13:09 (0min) [13:09] |
| dssawant1 | ✓ | | 11:58 (7min) [12:06] |
| govind haldankar | ✓ | | 13:18 (2min) [14:06] |
| Chandrashekhar gaibhiye | ✓ | | 12:33 (4min) [12:36] |
| ipsita bhattacharya | ✓ | | 11:58 (2min) [12:01] |
| jegannath nirmal | ✓ | | 12:30 (84min) [14:03] |
| kiran talele | ✓ | | 11:51 (49min) [14:05] |
| manisha bansode | ✓ | | 11:58 (7min) [12:06] |
| milind paraye | ✓ | | 12:05 (0min) [12:05] |
| najib ghatte | ✓ | | 12:05 (0min) [12:05] |
| narendra bhagat | ✓ | | 11:58 (29min) [12:26] |
| nida bakareywala | ✓ | | 11:57 (13min) [12:13] |
| pallavi malame | ✓ | | 12:04 (4min) [12:13] |
| Payal Shah | ✓ | | 13:42 (0min) [13:42] |
| prashant kasambe | ✓ | | 11:58 (52min) [14:05] |
| priya chimurkar | ✓ | | 12:14 (0min) [12:14] |
| rajendra sutar | ✓ | | 11:57 (118min) [14:04] |
| reena kumbhare | ✓ | | 11:53 (46min) [14:05] |
| rajendra sawantl | ✓ | | 11:56 (3min) [11:59] |
| sudhakar mande | ✓ | | 11:58 (38min) [12:38] |
| sujata kulkarni | ✓ | | 11:58 (1min) [11:59] |
| sukanya kulkarni | ✓ | | 12:02 (2min) [12:04] |
| surendra singh rathod | ✓ | | 12:00 (0min) [12:00] |
| vijaya kamble | ✓ | | 12:01 (27min) [12:32] |
| yerramreddy srinivasa rao | ✓ | | 12:06 (89min) [14:05] |
| deepak karia | ✓ | | 11:55 (28min) [14:06] |
| mousumi bhattacharya | ✓ | | 11:54 (3min) [11:57] |
| prof. b. k. landa | ✓ | | 11:54 (42min) [14:03] |
| rutwik pandit | ✓ | | 11:56 (3min) [11:59] |
| meghana n | ✓ | | 11:57 (1min) [11:58] |
| krish matreja | ✓ | | 11:57 (5min) [14:05] |
| bharat chaudhari | ✓ | | 11:58 (0min) [11:58] |
| zia saqib | ✓ | | 11:59 (14min) [14:03] |
| preeti vinayakray | ✓ | | 12:00 (16min) [14:04] |
| prathamesh pilankar | ✓ | | 12:00 (1min) [12:01] |
| abi g | ✓ | | 12:02 (0min) [12:02] |
| mahesh patil | ✓ | | 12:03 (119min) [14:01] |
| manish parmar | ✓ | | 12:06 (7min) [12:13] |
| dnyaneshwar kamble | ✓ | | 12:07 (2min) [12:09] |
| dr. sanjay dambhare | ✓ | | 12:08 (98min) [14:01] |
| dattatray sawant | ✓ | | 12:23 (0min) [12:23] |
| fernandes b g | ✓ | | 12:27 (82min) [14:06] |
| dhananjay kalbande | ✓ | | 12:30 (0min) [12:30] |
| dr. amol deshpande | ✓ | | 12:34 (0min) [12:34] |



Sheet1

13:57 (2min) [14:05]

12:37 (0min) [12:37] 12:41 (0min) [12:41] 12:43 (1min) [12:44] 13:29 (1min) [13:30] 13:37 (0min) [13:37]
12:00 (3min) [12:04] 12:04 (13min) [14:05]

13:09 (0min) [13:09] 13:22 (0min) [13:22]

12:27 (1min) [14:04]
12:40 (8min) [14:05]
12:10 (3min) [14:03]
13:49 (0min) [13:49]
14:06 (1min) [14:06]
13:34 (1min) [14:04]
11:59 (7min) [12:05] 12:06 (2min) [12:07]

13:05 (0min) [13:05]
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12:17 (0min) [12:17] 12:19 (0min) [12:19] 13:47 (0min) [13:47] 14:02 (0min) [14:02]
13:16 (0min) [13:16] 13:28 (0min) [13:28] 13:39 (2min) [14:05]

13:09 (0min) [13:09]

12:38 (8min) [13:39] 13:45 (0min) [13:45] 13:49 (6min) [14:05]
12:37 (1min) [14:05]

12:02 (1min) [12:02] 12:04 (1min) [12:05] 12:07 (1min) [12:07] 12:10 (2min) [12:12] 12:16 (0min) [12:16]
13:34 (0min) [13:34] 13:49 (1min) [14:05]

12:33 (0min) [12:33] 13:52 (0min) [13:52]
12:48 (0min) [12:48]

12:33 (0min) [12:33] 12:51 (0min) [12:51] 13:08 (0min) [13:08] 13:25 (0min) [13:25]





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai - 400058, India
 (Autonomous Institute Affiliated to University of Mumbai)

Board of Studies (BoS) of Department of Electronics and Telecommunication Engineering

Year 2018-19

| Sr. No. | Designation | Name |
|------------|---|---|
| 1 | Chairman (Head of the Department) | Dr. Y. S. Rao |
| 2 | Faculty as per Specialization | Dr. Preeti Jani Prof. D. D. Ambawade Prof. Sonkusare Reena |
| 3 | Three subject experts from outside the parent university to be nominated by the Academic Council | Dr. B G Fernandes Dr. M B Patil Dr. Kumar Appalah |
| 4 | One expert nominated by the vice-chancellor | - |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Mr. Rishi Shah Dr. R. R. Sawant |
| 6 | One graduate meritorious alumnus | Mr. Gaurav Sawant Mr. Bhavin Kamdar Ms. Kadambari Shinde |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. Sanjay Damphare |
| 8 | Other members of staff of the same faculty | Prof. Manish Parmar Prof. Sukanya Kulkarni Prof. A D Mane Prof. Vijaya Kambale Dr. Amol Deshpande Prof. Milind Paraye Prof. Ganapat Parulekar Prof. Pallavi Malame |

R. Sonkusare

Head

Department of Electronics and Telecommunication
Engineering

J. J. ... 82

Principal

Sardar Patel Institute of Technology

Shinde





Sardar Patel Institute of Technology

(Autonomous Institute)

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Board of Studies (Electronics and Telecommunication Engg.)

Meeting is held on 06/12/2018 at 3 p.m. in room no 105 conference hall following members are present

| Sr No | Name | Member | Signature |
|-------|-------------------------|---------------------------------|-----------|
| 1 | Dr. Y S Rao | HOD | |
| 2 | Dr. B G Fernandes | Domain Expert | |
| 3 | Dr. M B Patil | Domain Expert | |
| 4 | Dr. Kumar Appaiah | Domain Expert | |
| 5 | Dr. Sanjay Dambhare | Domain Expert | |
| 6 | Dr. R R Sawant | Coordinator for Funded Projects | |
| 7 | Dr. Preeti Jani | PG Coordinator | |
| 8 | Prof. Ambawade Dayanand | Dy HOD | |
| 9 | Mr. Rishi Shah | Industry Representative | |
| 10 | Mr. Gaurav Sawant | Alumni | |
| 11 | Mr. Bhavin Kamdar | Alumni | |
| 12 | Prof. Manish Parmar | Program Coordinator | |
| 13 | Prof. Sonkusare Reena | Faculty | |
| 14 | Prof. Sukanya Kulkarni | Faculty | |
| 15 | Prof. A D Mane | Faculty | |
| 16 | Prof. Vijaya Kambale | Faculty | |
| 17 | Dr. Amol Deshpande | Faculty | |
| 18 | Dr. Sujatha Kulkarni | Faculty | |
| 19 | Mr. Milind Paraye | Faculty | |
| 20 | Mr. Ganapat Parulekar | Faculty | |
| 21 | Ms. Pallavi Malame | Faculty | |



| | | | |
|-----|----------------------|------------|------------------|
| 22 | Mr. Eshan Mudgal | Student | <i>Anagya</i> |
| 23 | Ms. Subhiksha M | Student | <i>Subhiksha</i> |
| 24 | Mr. Atharva Dshpande | Student | |
| 25 | Ms. Kadambari Shinde | ME Student | <i>B. Shinde</i> |
| 26 | Rajendra Waghmode | Faculty | <i>Rajendra</i> |
| 27 | Lynette Pereira | Faculty | <i>Pereira</i> |
| 28. | Sneha Weakley | Faculty | <i>Weakley</i> |

Sneha Weakley





**Board of Studies (BoS) of Department of Electronics and
 Telecommunication Engineering**
 Year 2018-19

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| 1 | Chairman (Head of the Department) | Dr. Y. S. Rao |
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| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. Sanjay Dambare |
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R. Sonkusare
 Head
 Department of Electronics and Telecommunication
 Engineering

J. D. ... J. D.
 Principal
 Sardar Patel Institute of Technology

B. Shinde





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Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Date: 10th Dec 2018

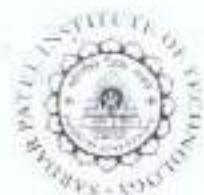
Minutes of BoS Meeting

A meeting of Department Advisory Board and Board of Studies (Electronics and Telecommunication Engineering) was held on 6th Dec. 2018 at 3.00 pm in Room No. 105 at Sardar Patel Institute of Technology, Andheri West Mumbai. Minutes of the meeting are as follows:

1. Dr. Surendra Rathod welcomed all the members and faculty members of ETRX and EXTC department for the meeting. He informed about the agenda of the meeting. He informed members about the semester long internship to be implemented from academic year 2019-20. He told about the feedback received from various stakeholders namely industry/recruiters, students, faculty and parents. He explained about category 1 and category 2 students in detail.
2. Mr. Rajan Goyal, an Industry representative said that having a Semester Long Internship is welcome move. Alumni Mr. Amog Vakodkar and Mr. Kural Rege also supported that it is a good and bold decision. However, Dr. B. G. Fernandes raised the concerns about evaluation of 10 credits of internship. Dr. Rathod informed that Dean Industry Relations is preparing detail rubries for evaluation of internship. Dr. Prachi Gharpure suggested that there will be two lines evaluation; one in middle of internship and another will be at the end of internship. The present scheme has two courses and two labs which are equivalent to 10 credits of internship. When Dr. Rathod asked to Dr. M. B. Patil whether IIT Bombay will take students for semester long internship then he replied that IITB professors may accept few students based on their performance. Student representative Ms. Prutha Atre said that SPTBI internships should be allowed to which Dr. Prachi Gharpure replied in affirmation.
3. Dr. B. G. Fernandes and Dr. Y. S. Rao cautioned about failures during internship program. They suggested having alternate mechanism for such students. If industry raises concerns about attitude/disciplinary issues of student during internship and industry is not ready to continue

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student then institute need to find alternate solution. For this Dr. M. B. Patil suggested that such students shall be taken back in the institute and they will have to take courses to compensate for 10 credits. Institute shall give a thought when and how to conduct these courses. It was also recommended that these students will do two courses and two labs in summer along with their juniors. Dr. Prachi Gharpure also informed that these students will be allowed to sit for placements.

4. Dr. B. G. Fernandes asked that what if student changes mind to migrate from category 1 to category 2. In reply to this Dr. Prachi Gharpure told that at present we will not allow students to migrate between categories to which all the members agreed. Student representative asked that if student is selected in a company, accepts the offer and then do not want to join due to the job profile or mindset change, to which Dr. M. B. Patil and Dr. Prachi Gharpure replied that students should not do this because it can have negative impact on brand of S.P.I.T.

5. Dr. S. S. Rathod informed all the members about Student Exchange Program with Fontys School of ICT, Netherlands. He has discussed the important points mentioned in the draft MoU between ICT, Fontys and S.P.I.T. Dr. M. B. Patil said that IITB has a cell which deal with student exchange programs and can be contacted for further details. He also said that schedule matching is very important and need to be done first. There are many issues discussed by the members like subject relevance matching, logistic concerns, credit structure, which semester to offer etc. It was resolved that to finalize these issues at institute level 'International Committee Office' to be established which will deal with all such issues.

6. Dr. Rathod presented the curriculum for following theory and lab courses

Digital Circuits (First Year)

Basic Electrical Technology (First Year)

Basic Electrical and Electronics (First Year)

Python Programming (First Year)

Liberal Art Courses (First and Second Year)

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Mandatory Elective Courses (Third Year)

The syllabus for Digital circuits, Python Programming, Liberal art Course and Mandatory Elective Courses was approved. Minor revisions were recommended in the contents of Basic Electrical Technology and Basic Electrical and Electronics engineering. It was suggested that contents of these courses are approved with minor revisions.

7. Prof. D.D.Ambawade presented detail syllabus and curriculum scheme for Final Year Electronics & Telecommunication Engineering for the academic year 2019-20. Course contents and scheme was approved unanimously by all the members.
8. Dr. Rathod presented 160 credit scheme to be implemented from 2019-20. Dr. B. G. Fernandes suggested introducing additional course in each semester for fast learners. This should be advanced course related to the course taught in the same semester. Dr. M.B. Patil suggested that department wise sequencing of the courses need to be looked into.

Dr. Y.S.Rao
HoD EXTC Dept.

Dr. Prachi Gharpure
Principal





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E-TC

Board of Studies (BoS) of Department of Electronics and Telecommunication Engineering

Year 2017-18

| Sr. No. | Designation | Name |
|---------|--|---|
| 1 | Chairman (Head of the Department) | Dr. Y. S. Rao |
| 2 | Faculty as per Specialization | Dr. Preeti Jani Prof. D. D. Ambawade Prof. Sonkusare Reena |
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| 4 | One expert nominated by the vice-chancellor | - |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Mr. Arun V Jalan Dr. R R Sawant |
| 6 | One graduate meritorious alumnus | Mr. Gaurav Sawant Mr. Bhavin Kamdar Mr. Vishal Dhubal |
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Head

Department of Electronics and Telecommunication
Engineering

Principal

Sardar Patel Institute of Technology





Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Minutes of the Board Of Studies (BOS) meeting held on 13th December 2017

Dr. S.S.Rathod, Dean of Academics, welcomed all the members and briefed about the agenda of the meeting with introduction of Dr. M.B.Patil and Dr. R.R.Sawant.

Agenda Item No. 1:- Confirmation of minutes of the last BoS meeting

Unanimously, the last BoS meeting minutes were confirmed.

Agenda Item No. 2:- Briefing to members on activities carried out by departments in current semester with respect to implementation of curriculum

Dr. S.S.Rathod presented the report of the activities carried out by the department with regards to ABL (Activity Based Learning), SDC (Skill Development Courses) and CEP (Continuing Education Program) with its success rate across all the departments.

Agenda Item No. 3:- Discussion on assessment of laboratory courses

- a) Dr. Rathod raised the concern of logistics for the conduction of practical/oral examination of laboratory courses. And hence he has mentioned about discarding the examination and instead of the MSE and ISE concept.
- b) Dr. R.R.Sawant and Dr.Y.S.Rao were of the opinion to conduct the examination with external examiner as it would help in getting the feedback about the practical record as well as infrastructure state.
- c) Alumnus Mr. Bhavin Kamdar raised the concern that in two hour slot, it may not be possible to conduct as well as evaluate the student. In reply, Prof. Parmar mentioned that each student gets roll over to perform that experiment in the next turn.
- d) Dr. M.B.Patil suggested that examination can be conducted during the semester itself at the end of the semester to eliminate the problem of logistics like having an external examiner and may not disturb the schedule of the schedule of the theory examination.
- e) Dr. Y.S.Rao has seconded the suggestion given by Dr. M.B.Patil and told to fit this schedule in the academic calendar.



Agenda Item No. 6:- Examination related rules

- a) Dr. S.S.Rathod put forward the question of whether the external examiner should be given to set the ESE paper.
- b) Mohit Joshi, EXTC student member has pointed that the external examiner has not followed the weightage in one of the subject paper which has led the problems for students.
- c) Dr. Sawant was of the opinion of not having any external examiner too set the paper and instructed to have trust and confidence in the internal faculty.
- d) Dr. Y.S.Rao has found the middle solution to call the external examiner in the institute and sit together with the internal examiner to prevent such imbalances and ambiguities.

About Grace marks:-

- a) Dr. M.B.Patil has informed that this type of grace scheme is not there in IITB.
- b) Dr. Prachi Gharpure, Principal, was in favour of grace marks and suggested to give the grace marks at the end and it should calculated based on the total marks of that subject.

About the marks of ESE question paper:-

- a) Unanimously, all the members that include Dr. Gharpure, Dr. Y.S.Rao, Br. M.B.Patil and Prof. K.T.Talele had confirmed the ESE paper should not be of 60 marks but of 100 marks due to the constraint in the rule of the make up examination.
- b) Student member asked about the different weightage for MSE and ESE . But all the members informed about the pitfalls of the different weightage.

Agenda Item No. 6:- Proposal for implementation of revised scheme and course contents for UG Third Year Engineering for both ETRX and EXTC Departments from academic year 2018-19.

- a) Prof. Dayanand Ambawade, Dy. HOD of EXTC Department has presented the entire scheme of the third year EXTC scheme 2018-19.
- b) Dr. M.B.Patil queried about the replacement of one of the software tool like MATLAB. Prof. Dayanand replied that it has been replaced by python language.
- c) After going through the contents of various subjects, Mr. Arun Jalan, and Industry Executive, was of the opinion to exclude certain topics and to be replaced by some latest trends.

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- d) This view has been seconded by Dr. Y.S.Rao and Dr. S.S.Rathod and suggested to upgrade some of the contents.
- e) Mr. Arun Jalan has given the parameter for the measurement of the syllabus like employability. He mentioned to ask ourselves whether employability gets fulfilled by the syllabus and then proceed.
- f) Dr. Y.S.Rao raised very relevant and thought provoking matter with an industry expert about the duration of the final year project and asked to reduce the duration of the project and instead include multiple short duration projects.
- g) In reply, Mr. Arun Jalan nodded and suggested that multiple projects would expose students to multiple areas and eventually make them employable and industry ready.
- h) Very significantly, Mr. Arun Jalan has pointed that there should be more open electives which was agreed by Dr. Y.S.Rao which tries to bridge the gap between the fundamentals and recent trends. He has categorically mentioned about Renewable Energy to be introduced mentioning its advantages and having tremendous scope in the industry for future. He also agreed to support the same in any kind on the request of Dr.Y.S.Rao. All the members have applauded this proposal.

...S...S...

Bhushan





**Board of Studies (BoS) of Department of Electronics and
 Telecommunication Engineering**

Year 2017-18

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|---------|--|--|
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Head

Department of Electronics and Telecommunication
 Engineering

Principal

Sardar Patel Institute of Technology





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Board of Studies (Electronics and Telecommunication Engg.)

1. Dr. Y S Rao (Chairman)

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5. Dr. Shiv Kumar Iyer (Domain Expert)

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6. Dr. Udhav Bhosale (University Nominee)

Principal
Ph.D. (IITB), M.E. (Commn), B.E. (Electronics)
Chairman, Board of Studies in Electronics & Telecommunication Engineering,
University of Mumbai
Member of Academic Council, University of Mumbai
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7. Mr. Gaurav Sawant (Alumni)
Manager - Intellectual Property Services Group
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Ph: +91 (22) 6180-3000
Cell: 858-947-8513

Gaurav S
6-12-2014

8. Mr. Ashutosh Kulkarni (Industry Representative)
Mumbai Metro One pvt. Ltd
Railway, Metro Signal & Telecom Engg.
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9. Dr. Preeti Jani (Senior Faculty from Department)
Professor
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Mumbai-400058
Email: preeti.vinayakray@gmail.com

Dr.
6/10/14
18:15 hrs

10. Prof. Ambawade Dayanand D (Senior Faculty from Department)
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R. Sonkusare
6/12/14

12. Prof. Sukanya Kulkarni (Senior Faculty from Department)
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6/12/14

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Manish
6/12/14

14. Prof. Reeta Gaokar (Senior Faculty from Department)
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Reeta Gaokar



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Mob.: 8976655817

Jayganesh
6/12/14

16. Mr. Vrajesh Prajapati (Student)
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Mob.: 9769816367

Vrajesh Prajapati
6/12/14

Prachi Chavhan

Prachi
6/12/2017

Prachi →





Sardar Patel Institute of Technology

(Autonomous Institute)

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Board of Studies (Electronics and Telecommunication Engg.)

Meeting is held on 13/12/2017 at 2 p.m. in room no 105 conference hall following members are present

| Sr No | Name | Member | Signature |
|-------|----------------------------------|-------------------------|-----------|
| 1 | Dr. Y S Rao | HOD | |
| 2 | Dr. B G Fernandes | Domain Expert | |
| 3 | Dr. M B Patil | Domain Expert | |
| 4 | Dr. Mukul C. Chandorkar | Domain Expert | |
| 5 | Dr. Sanjay Dambhare | Domain Expert | |
| 6 | Dr. R R Sawant | Industry Representative | |
| 7 | Dr. Preeti Jani | PG Coordinator | |
| 8 | Prof. Ambawade Dayanand | Dy HOD | |
| 9 | Mr. Arun V Jalan | Industry Representative | |
| 10 | Mr. Gaurav Sawant | Alumni | |
| 11 | Mr. Bhavin Kamdar | Alumni | |
| 12 | Prof. Manish Parmar | Program Coordinator | |
| 13 | Prof. Sonkusare Reena | Faculty | |
| 14 | Prof. Sukanya Kulkarni | Faculty | |
| 15 | Prof. A D Mane | Faculty | |
| 16 | Prof. Vijaya Kambale | Faculty | |
| 17 | Dr. Amol Deshpande | Faculty | |
| 18 | Mr. Milind Paraye | Faculty | |
| 19 | Mr. Ganapat Parulekar | Faculty | |
| 20 | Ms. Pallavi Malame | Faculty | |
| 21 | Mr. Mohit Joshi Joshi | Student | |
| 22 | Ms. Shivani Baddar | Student | |
| 23 | Mrs. Vishal Dubal | Student | |



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Board of Studies (Electronics and Telecommunication Engg.)

1. Dr. Y S Rao (Chairman)

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Date: 20/2/2017

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Ambawade

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Mayur Chouhan

Date: 20/2/2017

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Viraj Kamat

Viraj Kamat →

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Vishal Dubal





Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Minutes of the Board Of Studies (BOS) meeting held on 20th February 2017

- (1) Dr. Y. S. Rao, the convener of the BOS for EXTC Dept., welcomed all the members with their introduction and briefed about the agenda of the said meeting. He also conveyed the list of members of the BOS.
- (2) Dr. Preeti Jani, the professor in EXTC dept., presented the proposed scheme of the PG program of EXTC branch.
- (3) Prof. Dayanand Ambawade presented the proposed scheme of the UG program of EXTC branch.
- (4) Regarding the attendance for practicals, Prof. M.B.Patil and Prof. R.R.Sawant had suggested the 100% attendance. The make up time for the students on medical ground to be provided for the completion of all the experiments.
- (5) Prof. Sawant and Prof. Sanjay Dambhare gave the opinion of not repeating the entire year in the event of not passing the course. The student should be able to re-register the course in the next semester. Possibility of the flexible timing for the backlog course could be thought of while implementing the above policy.
- (6) It was unanimously decided that there must be grade penalty with relative downgrading in the event of failing the course and reappeared or course exam not given and reappeared.
- (7) Prof. Sawant, Prof. Fernandes and Mr. Bhavin suggested doing sequencing of subjects across semesters. It was accepted by all the members.
- (8) Prof. Sanjay Dambhare and Mr. Gaurav proposed the fine tuning to be done in the structure.
- (9) A case study was discussed regarding the subject "Microprocessors". This subject is in the 4th semester in EXTC program while it is in the 5th semester in ETRX program. In case of failure in this subject of EXTC student, then that student should be able to it in the ETRX program. All the members have decided to observe such possibilities in other subjects as well.
- (10) There was a discussion about the evaluation of a lab course by Mr. Bhavin. Experts were of the opinion that the evaluation would be more complex and to be taken care off properly.
- (11) Prof. Sawant and Mr. Gaurav has suggested that as far as possible, similar content theory course and the lab course should be taught by the same faculty to maintain the homogeneity.
- (12) Regarding the Mini Project I and Mini Project II, Prof. Sawant and Prof. Sanjay Dambhare has raised the issue of proper implementation and suggested to discuss once again.
- (13) For PG program, all the experts have raised their concern about including the lab in all the subjects. They were skeptical about the list of experiments in each of the subjects. They suggested rethinking the same.
- (14) For PG program, there was a suggestion from Prof. Sanjay Dambhare to add an open elective from interdisciplinary program along with one research related course.
- (15) For PG program, Prof. Sawant has suggested to clearly define the work to be done in PG lab I and II.

20-2-2017

Schudly





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Board of Studies (Electronics and Telecommunication Engg.)

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PPRA.

Date: 19/12/2015

Sandily →





Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Board of Studies (Electronics and Telecommunication Engg.)

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Date: 6/12/2014

[Handwritten signatures]

[Signature]

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VJP

Seenu





Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Minutes of the Board Of Studies (BOS) meeting held on 6th Dec 2014

- (1) Dr. Y. S. Rao, the convener of the BOS for EXTC Dept., welcomed all the members with their introduction and briefed about the agenda of the said meeting. He also conveyed the list of members of the BOS.
- (2) Dr. Preeti Jani, the professor in EXTC dept., presented the proposed scheme of the EXTC branch.
- (3) Regarding Inter-disciplinary elective, the following points were discussed:
 - a. It was decided to schedule the same time-slot for the elective across all the departments.
 - b. During the discussion, there was an agreement to have minimum 15 students and maximum 100 students in a particular elective.
 - c. A student shall be asked to give his/her choice of electives with priorities and register within the given stipulated duration. Failing to do so, he/she shall be automatically registered for the second priority elective.
- (4) It was unanimously resolved to have semester long project instead of the year long project and also three projects viz. Project I, II and III during the entire four year program.
- (5) Prof. D. D. Amberwade then gave the presentation on the proposed program structure for the entire four year program.
- (6) Dr. Y. S. Rao had raised the issue of too many subjects and the point was supported by student members present. He has given a special stress on more number of practical oriented subjects.
- (7) Student members had raised the issue about the evaluation method of the practical oriented courses. Dr. Y. S. Rao then suggested that the practical should not consist of the unnecessary things but it should only consist of the observation and the result analysis. His point was unanimously accepted by all the board members and resolved to implement from the very next semester.
- (8) All the members of the board had a view of maintaining the same syllabus for the core subject for at least three years. For an elective subject, some modifications may take place with the permission of the board members.
- (9) There was a discussion on an Open elective which earns a student an extra credit which will reflect in the mark sheet. Open elective will not be taken into account while calculating the final grade of a student.
- (10) The meeting ended with a vote of thanks.

D. S. S.
D.

Ramchandri





Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Minutes of the Board Of Studies (BOS) meeting held on 19th Dec 2015

- (1) Dr. V. S. Rao, the convener of the BOS for EXTC Dept., welcomed all the members with their introduction and briefed about the agenda of the said meeting.

- (2) The following were the suggestions given by the experts for the proposed scheme.
 1. Credit scheme to be revamped further and the total credits earned by student in 4 years to be restricted to around 170-180.
 2. Open electives list to be more elaborate, to include subjects that emphasize more on hands experience on general management skills
 3. Identify courses that can be designed and conducted by industry and approach suitable industry.
 4. A student is considered as pass in a theory subject if he clears each head individually such as term test, end sem exam.
 5. Make up exams may be conducted within a month after announcing semester results
 6. At least 2 paper setters, one internal and other external is mandatory.
 7. Moderation may be avoided.

J. S. Rao

R. Patel





DAB & BoS meeting on 18th

B. Satyanarayana <bsn@tir.res.in>
To: Yerramreddy Srinivasa Rao <ysrao@spt.ac.in>

Dear Prof. Y.S.Rao,

Thank you very much. It is my honour to associate with academic activities of SPIT.

On Mon, Feb 13, 2017 at 12:04 PM, Yerramreddy Srinivasa Rao <ysrao@spt.ac.in> wrote:

Respected Sir,

Greetings!

It's a matter of great honor for us to invite you as part of Department Advisory Board and Board of Studies of Electronics and Telecommunication Engineering of Sardar Patel Institute of Technology. Two visits namely visit by UGC on autonomy and visit by NBA committee are scheduled in Feb and March 2017.

We are planning to organize meeting on 18th Feb (sat).

Following will be agenda of meeting

1. Discussion on the curriculum and its implementation
2. Discussion on the new courses and certificate programs
3. Discussion on the evaluation mechanism

Y.S.Rao



In this regard we would like to conduct one meeting to finalize our proposed scheme and evaluation. Sir is it possible for you to attend the meeting at S.P.I.T. on 18th Feb i.e Saturday at 11 a.m.

I am returning back to Mumbai after my invited talk at a Conference in Kolkata at about 12:30pm on Feb 18th. Therefore, I am afraid that I will not be able to attend this meeting. I request you to intimate me about future meetings with a reasonable lead time. Thank you.

We need your valuable suggestions.

Its a great help for us.

Regards,

Dr. Y S Rao, PhD (ES-IIT-Bombay)

Vice-Principal,

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Lecture Videos: <https://www.youtube.com/user/EMTRONTechnologies>



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BSI
BSI





Bharat Mata
Bhavan's

(Founded in 1958 by Kalpvrik Dr. K. M. Munshi with the blessings of Mahatma Gandhi)

आत्मा मदा : करतारौ वस्तु विद्यतः ।
Let noble thoughts come to us from every side

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SARDAR PATEL INSTITUTE OF TECHNOLOGY

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To,
Dr. Sanjay Dambhare
Professor and Head of Electrical Engineering
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Shivajinagar, Pune- 411005

Ref No: SPIT/14/1576
Date: 26/11/2014

Subject: Appointment as a member of 'Board of Studies (BoS)' of Electronics & Telecommunication Engineering Department, Sardar Patel Institute of Technology.

Dear Sir,

Greetings!

It is our pleasure to appoint you as a member of 'Board of Studies' of Electronics & Telecommunication Engineering Department, Sardar Patel Institute of Technology, Andheri (West), Mumbai 400058. We are sure that your expertise will help us in designing and implementing the program in a successful manner.

With warm regards

042

Dr. Prachi Gharpure
Principal
Sardar Patel Institute of Technology



Thank You
Yes, Accepted
Bjw



DAB & BoS meeting on 18th

mukul@ee.iitb.ac.in <mukul@ee.iitb.ac.in>
To Yerramreddy Srinivasa Rao <ysrao@spit.ac.in>

Dear Rao,

It is good to hear from you. This semester I have been deputed to the new IIT Goa to teach a course, and am currently posted in Goa. It will be difficult for me to attend the meeting in person this time. However, if you wish, we can speak on the phone, or communicate over e-mail.

Best wishes,

MCC
(Quoted in e-blunder)

Benny



Yerramreddy Srinivasa Rao <ysrao@spit.ac.in>

Mon, Feb 13, 2017 at 11:43 AM



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
 (Autonomous Institute Affiliated to University of Mumbai)
 Munshi Nagar, Andheri (W), Mumbai – 400 058.

Department of Computer Science & Engineering (AIML)
Constitution of BoS for the Academic year 2022-23

| Sr. No. | Designation | Name of BoS Member |
|---------|---|--|
| 1 | Chairman (Head of the Department) | Dr. D R Kalbande |
| 2 | Faculty as per Specialization | Dr. Dayanand Ambawade |
| 3 | Two subject experts from outside the parent university to be nominated by the Academic Council | Dr. Biplob Banerjee, IIT-B, Mumbai Dr. Shashidhar G Koolagudi, NIT-Surathkal |
| 4 | One expert was nominated by the vice-chancellor from a panel of six recommended by the college principal. | Dr. M. M. Chandane Associate Professor, Computer Engineering & Information Technology Department, Veermata Jijabai Technological Institute, Matunga (East), Mumbai – 400019 |
| 5 | One representative from the industry/corporate sector/allied area relating to the placement | Sarah Gawde, Software Engineer at Microsoft Bengaluru, Karnataka, India |
| 6 | One postgraduate meritorious alumnus | Mr. Ankit Srivastava Chief Manager, Kotak Mahindra Bank, Mumbai |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. Sandeep Vanjale, BVCOE, Pune |
| 8 | Other members of staff of the same faculty | 1. Prof. Sheetal Chaudhari 2. Prof. Renuka Pawar 3. Prof. Aparna Halbe |

Dr. Ankit Srivastava
08/05/2023

Head of the Department of Computer
Science and Engineering
Sardar Patel Institute of Technology
Mumbai

Principal
Sardar Patel Institute of Technology
Mumbai





Bharatiya Vidya Bhawan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
 (Autonomous Institute Affiliated to University of Mumbai)
 Munshi Nagar, Andheri (W), Mumbai - 400 058.

Department of Computer Science & Engineering (Data Science)
Constitution of BoS for the Academic year 2022-23

| Sr. No. | Designation | Name of BoS Member |
|---------|---|---|
| 1 | Chairman (Head of the Department) | Dr. D R Kalbande |
| 2 | Faculty as per Specialization | Dr. Sujata Kulkarni |
| 3 | Two subject experts from outside the parent university to be nominated by the Academic Council | Dr. Vahida Attar, COEP, Pune Dr. Somnath Dey, IIT Indore |
| 4 | One expert was nominated by the vice-chancellor from a panel of six recommended by the college principal. | Dr. R. R. Sedamkar, Professor, Thakur College of Engineering and Technology, Thakur Village, Kandivali, Mumbai |
| 5 | One representative from the industry/corporate sector/allied area relating to the placement | Mr. Annanya Jain, Asst.VP, JP Morgan Chase. |
| 6 | One postgraduate meritorious alumnus | Ms. Suvarnamala Kshirsagar, Software Developer, Kendryl, Pune India |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. Sandeep Vanjale, BVCOE, Pune |
| 8 | Other members of staff of the same faculty | 1. Prof. Varsha Hole 2. Prof. Nikahat Mulla |

✓
 08/05/23

Head of the Department of Computer Science and
 Engineering
 Sardar Patel Institute of Technology
 Mumbai

Bhandarkar
 Principal

Sardar Patel Institute of Technology
 Mumbai





Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai - 400 058.

**Department of Computer Science and Engineering
MCA Program**

Constitution of BoS for the Academic year 2022-23

| Sr. No. | Designation | Name of BoS Member |
|---------|---|---|
| 1 | Chairman (Head of the Department) | Dr. D.R. Kalbande |
| 2 | Faculty as per Specialization | Dr. Pooja Raundale (MCA) Dr. Aarti Karande (MCA) |
| 3 | Two subject experts from outside the parent university to be nominated by the Academic Council | Dr. Sunil Mane, COEP Pune Dr. Shefali Sonavane, WCE Sangli |
| 4 | One expert nominated by the vice-chancellor from a panel of six recommended by the college principal. | Dr. Suhasini Kottur, Bharti Vidhyapeeth, Navi Mumbai |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Mr. Rohit Pandharkar (Global Head, DS, OLX Autos) Mr. Anthony Devasee (SVP, TATA AIG) Ms. Kritika Bang (Deloitte) |
| 6 | One postgraduate meritorious alumnus | Mr. Sachin Gadagi Mr. Sarvesh Bedekar |
| 7 | Experts from outside the college whenever special courses of studies are to be formulated | Dr. Murlidhar Dhanawade (Sterlings) Dr. Harshali Patil (MET) (Dr.) Swati Chopade (VJTI) |
| 8 | Other members of staff of the same faculty | 1. Prof. Harshil Kanakia 2. Prof. Nikhita Mangaonkar 3. Prof. Sakina Salmani 4. Prof. Pallavi Thakur |

*Ansari &
04/05/2023*

Head of the Department of Computer Science and
Engineering
Sardar Patel Institute of Technology
Mumbai

Elbande

Principal
Sardar Patel Institute of Technology
Mumbai





(Founded in 1938 by Kalpvrik Dr. K. N. Marathi with the blessing of Mahatma Gandhi)

आ गो मदा : उत्तरो घन्तु विकल : /

Let noble thoughts come to us from every side

SARDAR PATEL INSTITUTE OF TECHNOLOGY

(Autonomous Institute)

Bhavan's Campus, Munshi Nagar, Andheri (west), Mumbai - 400058, India

E mail: principal@spit.ac.in website: www.spit.ac.in

Board of Studies (BoS) of

Master of Computer Applications Department

Year 2020-21, 2021-22.

| Sr. No. | Designation | Name |
|---------|--|--|
| 1 | Chairman (Head of the Department) | Dr. Pooja Raundale |
| 2 | Faculty as per Specialization | Dr. Aarti Karande Prof. Harshil Kanakia |
| 3 | Three subject experts from outside the parent university to be nominated by the Academic Council | Dr. R. K. Joshi Dr. Uday Khedkar Dr. Dhirendra Mishra |
| 4 | One expert nominated by the vice-chancellor | Dr. Suhasini Vijaykumar |
| 5 | One representative from industry/corporate sector/allied area relating to placement | Mr. Rajesh Punjabi |
| 6 | One graduate meritorious alumnus | Mr. Sachin Gadagi Mr. Sarvesh Bedekar |
| 7 | Other members of staff of the same faculty | Prof. Nikhita Mangaonkar Prof. Sakina Salmani Prof. Pallavi Thakur Prof. Prachi Dalvi |

Raundale

Head
MCA Department

Shandharji

Principal

Sardar Patel Institute of Technology





BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL INSTITUTE OF TECHNOLOGY
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI – 400 058.
MASTERS OF COMPUTER APPLICATIONS

BOS Members AY 2018-19 , 2019-20

| | Sr. No. | Name | E-mail | Affiliation |
|-----------------|---------|---------------------|-------------------------------|------------------------------|
| Principal | 1 | Dr. Prachi Gharpure | prachi.gharpure@gmail.com | Principal |
| HOD | 2 | Dr. Pooja Raundale | pooja@spit.ac.in | HOD, MCA |
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| Research | 4 | Dr. Seema Purohit | supurohit@gmail.com | Professor, Director |
| Industry | 5 | Dr. Vaishali Patil | vaishali patil77@gmail.com | Associate Dean, IT, Research |
| Current Student | 6 | Mrs. Anima Sable | anima.dinesh@gmail.com | NASA, USA |
| | 7 | Anashree Chatterjee | anashree.chatterjee@gmail.com | Software Engineer |
| | 8 | Aditya Naravane | adityanaravane@gmail.com | IBM India Pvt. Ltd. |
| | 12 | Pooja Patel | pooja.patel@spit.ac.in | SY MCA student |
| | 13 | Tushar Ghadge | tushar.phadage@spit.ac.in | TY MCA Student |
| | 14 | Sachin Garg | Sachin <seadari@gmail.com> | Software Engineer |
| Alumni | 15 | Parekh Soni | pareshsoni129@gmail.com | Software Engineer |



OAK

Principal
Dr. Prachi Gharpure



BHARATIYA VIDYA BHAVANS

SARDAR PATEL INSTITUTE OF TECHNOLOGY
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI – 400 058.
MASTERS OF COMPUTER APPLICATIONS

BOS Members 2017-18

| | Sr. No. | Name | E-mail | Affiliation |
|-----------------|---------|---------------------|----------------------------------|---------------------------|
| Principal | 1 | Dr. Prachi Gharpure | prachi.gharpure@gmail.com | Principal |
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| | 4 | Dr. Seema Purohit | supurphit@gmail.com | Professor, Director |
| | 5 | Dr. Vaishali Patil | vaishali.pati77@gmail.com | Professor, HOD |
| Research | 6 | Mrs. Anima Sable | anima.dinesh@gmail.com | Sr. Principal Scientist |
| | 7 | Anasree Chatterjee | anasree.chatterjee@gmail.com | Software Engineer |
| Alumni | 8 | Diwa Arunashree | Email: diwa.arunashree@gmail.com | Software Engineer |
| Current Student | 9 | Supriya Jaiswal | Supriya25.nov.91@gmail.com | ISTQB Professional |
| | 10 | Darshika Rajesh | darshika21mishra@gmail.com | TY MCA Student |
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| Faculty | 12 | Nikhita Mangaonkar | nikhita.mangaonkar@gmail.com | Sr. Faculty |
| | | | | Faculty |
| | | | | SPIT |



Principal
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BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL INSTITUTE OF TECHNOLOGY
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI – 400 058.
MASTERS OF COMPUTER APPLICATIONS

BOS Members (W.E.F. 17/8/2015)

| | Sr. No. | Name | E-mail | Affiliation |
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| Alumni | 15 | Parekh Soni | parekhsoni129@gmail.com | Software Engineer BNP Paribas |



Principal
Dr. Prachi Gharpure