

Department : Chemical Engg.

2022-23 , sem I , T.E.

1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

| Sr.No | Name of Students | Elect-I Choice | Elective-II Choice, |
|-------|----------------------------|-----------------------|-----------------------------------|
| 1 | Aadmane Aadesh Vijay | Chemical Industry Mgt | Process Instrumentation & Control |
| 2 | Anap Akshay Murlidhar | Chemical Industry Mgt | Process Instrumentation & Control |
| 3 | Bakai Drushti Annasaheb | Chemical Industry Mgt | Process Instrumentation & Control |
| 4 | Bakai Srushti Annasaheb | Chemical Industry Mgt | Process Instrumentation & Control |
| 5 | Ban Rupali Dattatraya | Chemical Industry Mgt | Process Instrumentation & Control |
| 6 | Bang Tejas Rahul | Chemical Industry Mgt | Process Instrumentation & Control |
| 7 | Bhivsan Santosh Shashikant | Chemical Industry Mgt | Process Instrumentation & Control |
| 8 | Bidave Aniket Sharad | Chemical Industry Mgt | Process Instrumentation & Control |
| 9 | Borase Sanket Sunil | Chemical Industry Mgt | Process Instrumentation & Control |
| 10 | Chaudhan Chetan Madhukar | Chemical Industry Mgt | Process Instrumentation & Control |
| 11 | Dabhade Gayatri Sunil | Chemical Industry Mgt | Process Instrumentation & Control |
| 22 | Dambale Chetan Bharat | Chemical Industry Mgt | Process Instrumentation & Control |
| 13 | Deshmukh Prasad Shivaji | Chemical Industry Mgt | Process Instrumentation & Control |
| 14 | Dhage Aniket Kishan | Chemical Industry Mgt | Process Instrumentation & Control |
| 15 | Dhangar Ganesh Himmat | Chemical Industry Mgt | Process Instrumentation & Control |
| 16 | Dugaje Omkar Mahesh | Chemical Industry Mgt | Process Instrumentation & Control |
| 17 | Gadekar Aryan Ravindra | Chemical Industry Mgt | Process Instrumentation & Control |
| 18 | Gadekar Shubham Sharad | Chemical Industry Mgt | Process Instrumentation & Control |
| 19 | Gadhav Swaraj Satish | Chemical Industry Mgt | Process Instrumentation & Control |
| 20 | Gaikawad Shruti Umesh | Chemical Industry Mgt | Process Instrumentation & Control |
| 21 | Garje Komal Bharat | Chemical Industry Mgt | Process Instrumentation & Control |
| 22 | Gawari Akshay Sunil | Chemical Industry Mgt | Process Instrumentation & Control |
| 23 | Gharate Devashri Hitesh | Chemical Industry Mgt | Process Instrumentation & Control |
| 24 | Ghorpade Ankita Ashok | Chemical Industry Mgt | Process Instrumentation & Control |
| 25 | Ghule Pratik Badashaha | Chemical Industry Mgt | Process Instrumentation & Control |
| 26 | Golhar Rahul Narayan | Chemical Industry Mgt | Process Instrumentation & Control |
| 27 | Gore Omkar Shivaji | Chemical Industry Mgt | Process Instrumentation & Control |
| 28 | Gupta Arvindkumar Jitlal | Chemical Industry Mgt | Process Instrumentation & Control |
| 29 | Handge Sakshi Navnath | Chemical Industry Mgt | Process Instrumentation & Control |
| 30 | Harde Ramesh Shantaram | Chemical Industry Mgt | Process Instrumentation & Control |
| 31 | Jadhav Rutesh Vinayak | Chemical Industry Mgt | Process Instrumentation & Control |
| 32 | Jagtap Mahesh Subhash | Chemical Industry Mgt | Process Instrumentation & Control |
| 33 | Jondhale Dhananjay | Chemical Industry Mgt | Process Instrumentation & Control |
| 34 | Jondhale Krishna Vitthal | Chemical Industry Mgt | Process Instrumentation & Control |
| 35 | Kakar Dayyan Iqbal | Chemical Industry Mgt | Process Instrumentation & Control |
| 36 | Kale Mahesh Ram | Chemical Industry Mgt | Process Instrumentation & Control |
| 37 | Kedari Uday Sunil | Chemical Industry Mgt | Process Instrumentation & Control |
| 38 | Khandagale Gaurav Rama | Chemical Industry Mgt | Process Instrumentation & Control |
| 39 | Kokane Akash Sanjay | Chemical Industry Mgt | Process Instrumentation & Control |
| 40 | Kote Rohit Eknath | Chemical Industry Mgt | Process Instrumentation & Control |
| 41 | Kothule Mayur Prakash | Chemical Industry Mgt | Process Instrumentation & Control |
| 42 | Lohade Darshan Subhash | Chemical Industry Mgt | Process Instrumentation & Control |
| 43 | Marale Siddhant Rajendra | Chemical Industry Mgt | Process Instrumentation & Control |
| 44 | More Sudharshan Ganpat | Chemical Industry Mgt | Process Instrumentation & Control |
| 45 | Murkute Pranita Nandkumar | Chemical Industry Mgt | Process Instrumentation & Control |
| 46 | Nile Prajwal Vijay | Chemical Industry Mgt | Process Instrumentation & Control |
| 47 | Nirmal Mahesh Popat | Chemical Industry Mgt | Process Instrumentation & Control |
| 48 | Panpatil Akash Gautam | Chemical Industry Mgt | Process Instrumentation & Control |
| 49 | Patil Bhavik Baburao | Chemical Industry Mgt | Process Instrumentation & Control |
| 50 | Patil Gautav Chhotulal | Chemical Industry Mgt | Process Instrumentation & Control |
| 51 | Patil Jayesh Pramod | Chemical Industry Mgt | Process Instrumentation & Control |
| 52 | Patil Lalit Sambhaji | Chemical Industry Mgt | Process Instrumentation & Control |
| 53 | Pawar Mayur Suresh | Chemical Industry Mgt | Process Instrumentation & Control |
| 54 | Porje Akash Shivaji | Chemical Industry Mgt | Process Instrumentation & Control |

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| 55 | Rokade Aditi Anush | Chemical Industry / Mgt | Process Instrumentation & Control |
| 56 | Sathie Akbarza Shrikant | Chemical Industry / Mgt | Process Instrumentation & Control |
| 57 | Shaikh Zubir Sharukh | Chemical Industry / Mgt | Process Instrumentation & Control |
| 58 | Shejul Pitesh Ashwin | Chemical Industry / Mgt | Process Instrumentation & Control |
| 59 | Shenpi Yash Pratikraj | Chemical Industry / Mgt | Process Instrumentation & Control |
| 60 | Shinde Nilam Parvathinath | Chemical Industry / Mgt | Process Instrumentation & Control |
| 61 | Soniawane Akash Vilasrao | Chemical Industry / Mgt | Process Instrumentation & Control |
| 62 | Tarla Prasad Parvez | Chemical Industry / Mgt | Process Instrumentation & Control |
| 63 | Thorat Ashutosh Prakash | Chemical Industry / Mgt | Process Instrumentation & Control |
| 64 | Turkane Akashak Sanjiv | Chemical Industry / Mgt | Process Instrumentation & Control |
| 65 | Vaidya Pushtikesh | Chemical Industry / Mgt | Process Instrumentation & Control |
| 66 | Vairagar Krushna Sunil | Chemical Industry / Mgt | Process Instrumentation & Control |
| 67 | Wardhule Abhijit Bharat | Chemical Industry / Mgt | Process Instrumentation & Control |


 Dr. Chintan Patel
 Head of Department
 Date: 20/07/2018

Department : Chemical Engg.

2022 - 23, Sem III, BE.

1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

| Sr.No | Name of Students | Elect-I | Elective-II Choice, |
|-------|-------------------------------|---------------------------|-------------------------------|
| 1 | Aniket Rajendra Veljali | Environmental Engineering | Chemical Process Synthesis |
| 2 | Yogesh prakash sonar | Environmental Engineering | Chemical Process Synthesis |
| 3 | Vijay Girjabapu Patare | Environmental Engineering | Chemical Process Synthesis |
| 4 | Shubham Shivaji Shejwal | Environmental Engineering | Advance Separation Processes. |
| 5 | Jagtap hitesh ajay | Environmental Engineering | Advance Separation Processes. |
| 6 | Yugal Kailas Patil | Environmental Engineering | Chemical Process Synthesis |
| 7 | Gaurav kishor Patil | Environmental Engineering | Chemical Process Synthesis |
| 8 | Karpe Nimish Jagannath | Environmental Engineering | Advance Separation Processes. |
| 9 | Asif Mubarak Bagwan | Environmental Engineering | Chemical Process Synthesis |
| 10 | Khemchandra Sopan Mahajan | Environmental Engineering | Advance Separation Processes. |
| 11 | Harshad Kailas Pelmahale | Environmental Engineering | Advance Separation Processes. |
| 12 | Shital Rajendra Dond | Environmental Engineering | Advance Separation Processes. |
| 13 | Pravin yashwant ghorpade | Environmental Engineering | Advance Separation Processes. |
| 14 | Parikshit Milind Pande | Environmental Engineering | Chemical Process Synthesis |
| 15 | Kanchan Suresh Deshmukh | Environmental Engineering | Advance Separation Processes. |
| 16 | Yogesh vinod more | Environmental Engineering | Advance Separation Processes. |
| 17 | Nitin Dnyandev Dhakane | Environmental Engineering | Chemical Process Synthesis |
| 18 | Shirsath Prashant Subhash | Environmental Engineering | Advance Separation Processes. |
| 19 | Kamble Utkarsh Arun | Environmental Engineering | Advance Separation Processes. |
| 20 | Mahale Swapnil Dinkar | Environmental Engineering | Advance Separation Processes. |
| 21 | Chaitanya Kaduba Harde | Environmental Engineering | Advance Separation Processes. |
| 22 | Rohan Ramchandra waghmode | Environmental Engineering | Chemical Process Synthesis |
| 23 | Rushikesh Dattatray Chaure | Environmental Engineering | Advance Separation Processes. |
| 24 | Niket Nanasheb Thete | Environmental Engineering | Advance Separation Processes. |
| 25 | Ganesh Bhagwat jorvekar | Environmental Engineering | Advance Separation Processes. |
| 26 | Prathamesh machhindra somavan | Environmental Engineering | Advance Separation Processes. |
| 27 | Rahul Kalyan Lakade | Environmental Engineering | Advance Separation Processes. |
| 28 | Mayur Vijay Torawane | Environmental Engineering | Advance Separation Processes. |
| 29 | Pokale rahul machhindra | Environmental Engineering | Chemical Process Synthesis |
| 30 | Pranav Shyam Dubey | Environmental Engineering | Advance Separation Processes. |
| 31 | Tejas Kishor Murtadak | Environmental Engineering | Advance Separation Processes. |
| 32 | Vishwasrao harshad shriram | Environmental Engineering | Advance Separation Processes. |
| 33 | Sanket Ramesh Netanrao | Environmental Engineering | Advance Separation Processes. |
| 34 | NIKAM ABHISHEK DNYANES | Environmental Engineering | Advance Separation Processes. |
| 35 | Rushikesh Somnath Shinde | Environmental Engineering | Advance Separation Processes. |
| 36 | Rushikesh Baburao wagh | Environmental Engineering | Advance Separation Processes. |
| 37 | Mayur Dnyaneshwar Gayake | Environmental Engineering | Advance Separation Processes. |
| 38 | Wagh Mahesh Thaksen | Environmental Engineering | Advance Separation Processes. |
| 39 | Shelar Parikshit Babaji | Environmental Engineering | Advance Separation Processes. |
| 40 | Shinde Swapnali sudam | Environmental Engineering | Advance Separation Processes. |
| 41 | Paithankar Mayur Ashok | Environmental Engineering | Advance Separation Processes. |
| 42 | Siddhesh Santosh Dulvi | Environmental Engineering | Advance Separation Processes. |
| 43 | Gire Adinath Raosaheb | Environmental Engineering | Advance Separation Processes. |
| 44 | Kaveri santosh katale | Environmental Engineering | Advance Separation Processes. |

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|----|------------------------------|---------------------------|-------------------------------|
| 45 | Harshali Ashok Jadhav | Environmental Engineering | Advance Separation Processes. |
| 46 | PATIL PREMCHAND DILIP | Environmental Engineering | Advance Separation Processes. |
| 47 | GADHARI VISHNUKUMAR D | Environmental Engineering | Advance Separation Processes. |
| 48 | Abhishek punja Mandlik | Environmental Engineering | Advance Separation Processes. |
| 49 | Khonde Dinesh Chandrakant | Environmental Engineering | Advance Separation Processes. |
| 50 | Jayesh Toke | Environmental Engineering | Advance Separation Processes. |
| 51 | PRAFUL DAYAL GAWANDE | Environmental Engineering | Advance Separation Processes. |
| 52 | Ritesh Pandurang Thakur | Environmental Engineering | Advance Separation Processes. |
| 53 | Patil Minal Sanjay | Environmental Engineering | Advance Separation Processes. |
| 54 | Kavita Dattaram Sangle | Environmental Engineering | Advance Separation Processes. |
| 55 | Ajinkya Digambar Bhoyar | Environmental Engineering | Advance Separation Processes. |
| 56 | Garje Sanjay Bharat | Environmental Engineering | Advance Separation Processes. |
| 57 | Chaudhari Paresh sunil | Environmental Engineering | Chemical Process Synthesis |
| 58 | RAJVEER RAJENDRA MHASK | Environmental Engineering | Chemical Process Synthesis |
| 59 | Jagrut Shriram Patil | Environmental Engineering | Chemical Process Synthesis |
| 60 | Chavhanke Dnyaneshwar Rajend | Environmental Engineering | Chemical Process Synthesis |
| 61 | Dhanashri Vilas Gawali | Environmental Engineering | Advance Separation Processes. |
| 62 | Pratik Bhanudas Vaishnav | Environmental Engineering | Advance Separation Processes. |
| 63 | Rahul Baban Barke | Environmental Engineering | Advance Separation Processes. |
| 64 | Varsale Gayatri Arun | Environmental Engineering | Advance Separation Processes. |
| 65 | Aher Kamlesh Sunil | Environmental Engineering | Chemical Process Synthesis |
| 66 | Rathod gajanan Kishan | Environmental Engineering | Chemical Process Synthesis |
| 67 | Sagar Rajendra gaikwad | Environmental Engineering | Chemical Process Synthesis |
| 68 | Sanchit vijay choudhary | Environmental Engineering | Chemical Process Synthesis |
| 69 | Ajit More | Environmental Engineering | Advance Separation Processes. |
| 70 | PRATIK BAKALE | Environmental Engineering | Advance Separation Processes. |
| 71 | Siddhesh Pramod Gharate | Environmental Engineering | Advance Separation Processes. |
| 72 | Sudhir Rajendra Godse | Environmental Engineering | Chemical Process Synthesis |
| 73 | Dipali Anil Jagtap | Environmental Engineering | Advance Separation Processes. |
| 74 | Jadhav Janvi Satyaprasad. | Environmental Engineering | Advance Separation Processes. |
| 75 | Ajinkya Jibhau Pawar | Environmental Engineering | Advance Separation Processes. |
| 76 | Patel Neha Rameshchandra | Environmental Engineering | Advance Separation Processes. |
| 77 | Darshan Wagh | Environmental Engineering | Chemical Process Synthesis |
| 78 | Veljali Aniket Rajendra | Environmental Engineering | Advance Separation Processes. |
| 79 | Vishwasrao Harshad Shriram | Environmental Engineering | Advance Separation Processes. |
| 80 | Wagh Rushikesh Baburao | Environmental Engineering | Advance Separation Processes. |
| 81 | Waghmode Rohan Ramchandra | Environmental Engineering | Chemical Process Synthesis |
| 82 | UNHALE RAHUL DILIP | Environmental Engineering | Chemical Process Synthesis |


 Head Of Department
 Date: _____

Savitribai Phule Pune University Structure for TE Chemical Engineering- 2019 Course

| Subject Code | Subject | L | P | | Tot | IE | ESE | TW | PR | OR | Total | Credit TH+PR |
|--------------|---------------------------------------|----|----|-----|------------------|-----|-----|-----|-----|-----|-------|--------------|
| SEMESTER-I | | | | | | | | | | | | |
| 309343 | Mass Transfer-I | 3 | 4 | - | - | 30 | 70 | - | 80 | - | 180 | 3+2=5 |
| 309342 | Chemical Technology-II | 3 | 4 | - | - | 30 | 70 | 24 | 80 | 125 | 3+2=5 | |
| 309343 | Chemical Engineering Mathematics | 3 | - | - | - | 30 | 70 | - | - | - | 100 | 3 |
| 309344 | Chemical Engineering Thermodynamics | 3 | - | - | - | 30 | 70 | - | - | - | 100 | 3 |
| 309345 | Therm-I | 3 | - | - | - | 30 | 70 | - | - | - | 100 | 3 |
| 309346 | Computer-Aided Chemical Engineering-I | - | 2 | - | - | - | - | - | - | - | 50 | 3 |
| 309347 | Seminar | - | - | - | 1 | - | - | - | - | - | 50 | 3 |
| | Total | 12 | 10 | | 1 | 150 | 350 | 100 | 80 | 50 | 700 | 21 |
| SEMESTER-II | | | | | | | | | | | | |
| Subject Code | Subject | L | P | Tot | Internat ship | IE | ESE | TW | PR | OR | Total | Credit TH+PR |
| 309348 | Chemical Reaction Engineering-I | 3 | 4 | - | - | 30 | 70 | 24 | 80 | - | 175 | 3+2=5 |
| 309349 | Mass Transfer-II | 3 | 4 | - | - | 30 | 70 | 50 | 80 | - | 200 | 3+2=5 |
| 309350 | Transport Phenomena | 3 | - | - | - | 30 | 70 | 24 | - | - | 125 | 3+2=5 |
| 309351 | Chem-I | 3 | - | - | - | 30 | 70 | - | - | - | 100 | 3 |
| 309352 | Internship | - | - | - | 4 | - | - | - | - | - | 100 | 4 |
| | Total | 12 | 95 | 2 | 4 | 120 | 350 | 260 | 100 | - | 700 | 21 |

*Subject Leader should conduct tutorial of 2 hrs per Book per week.

8 Maximum Assignment including Numerical relevant to the subject to be submitted by each student as part of Term Work.

Examination Duration is semester: 60 min. End semester: 150 min. L: Lecture, P: Practical, T: Tutorial, TW: Term work, PR: Practical, OR: Oral

IEE - In semester Examination, ESE - End semester Examination, TW- Tutorial

| Electrical | |
|---------------|--|
| A. | Chemical Industry Management |
| B. | Food Technology |
| C. | Polymers Engineering |
| D. | Downstream Processing |
| Electrical-II | |
| A. | Energy Conservation in Chemical Process Industries |
| B. | Flocculation, Agglomeration and Coagulation |
| C. | Computational Engineering |
| D. | Artificial Intelligence and Data Science |

TE (Chemical Engineering), 2019


Head Of Department
 Department of Chemical Engineering
 Savitribai Phule Pune University
 Dr. S. S. Patil (M.S.)
 10/11/19

Savitribai Phule Pune University
Final Year of Chemical Engineering (2019 Course)
(With effect from Academic Year 2022-23)

Semester VII

| Course Code | Course Name | Teaching Scheme (Hours/week) | | | Examination Scheme and Marks | | | | | Credit Scheme | | | | |
|---|---|------------------------------|-----------|----------|---|---------|-----------|-----------|-----------|---------------|---------|-----------|----------|-------|
| | | Lecture | Practical | Tutorial | Mid-Sem | End-Sem | Term work | Practical | Oral/Prac | Total | Lecture | Practical | Tutorial | Total |
| 409341 | Process Dynamics and Control | 03 | 02 | - | 30 | 70 | - | 50 | - | 150 | 3 | 1 | - | 4 |
| 409342 | Chemical Reaction Engineering- II | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 409343 | Chemical Engineering Design | 03 | 02 | - | 30 | 70 | - | - | 50 | 150 | 3 | 1 | - | 4 |
| 409344 | Elective-III | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 409345 | Elective-IV | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 409346 | Computer Aided Chemical Engineering- II | - | 02 | - | - | - | 50 | - | - | 50 | - | 1 | - | 1 |
| 409347 | Project Stage I | - | 04 | - | - | - | 50 | - | - | 50 | - | 2 | - | 2 |
| Total Credit | | | | | | | | | | 15 | 05 | - | 20 | |
| Total | | 15 | 10 | - | 150 | 350 | 100 | 50 | 50 | 700 | 15 | 05 | - | 20 |
| 409348 | Audit Course 7 | | | | | | | | | | Grade | | | |
| Elective-III (409344) | | | | | Elective IV (409345) | | | | | | | | | |
| ✓ 409344(A) Environmental Engineering 409344(B) Membrane Technology 409344(C) Industrial Piping 409344(D) Petroleum Refining | | | | | 409344 (A) Chemical Process Synthesis 409344(B) Industrial Management & Entrepreneurship 409344 (C) Green Technology 409344 (D) Advance Separation Processes | | | | | | | | | |
| 409348 Audit Course 7(AC7) Options: AC7- 1 MOOC/NPTEL- Learn New Skills | | | | | | | | | | | | | | |



| Academic year 2022-23 | | Elective subject choice for Elective III and IV | | BE COMPUTER ENGINEERING |
|-----------------------|---|---|--|-------------------------|
| Timestamp | STUDENT NAME [FIRST, MIDDLE, LAST NAME] | Please select the subject for Elective III from following options | Please select the subject for Elective IV from following options | |
| 03/08/2022 01:18 | KrishnaGopal Rajesh Sinha | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 01:20 | Sanket Dattatray Kandekar | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 02:30 | Gaurav Ashok Chavan | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 02:32 | Vaishnavi deepak bhatjre | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 02:54 | Harshal Pravin Patil | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 03:06 | PROF. PRAVIN TAMBE | 410244(D) Object Oriented Modeling and Design | 41025(A): Information Retrieval | |
| 03/08/2022 04:48 | Gayatri Shridas S | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 04:56 | Rahul vithal khemnar | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 05:04 | ABHISHEK SACHIN DESHMUKH | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 05:25 | Madhuri Pandurang Patwe | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 05:30 | GAURAV PRAKASH KHAIRNAR | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 06:13 | Tejaswini Ramkrushna Gite | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 07:52 | MILIND GANESH DHADE | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 08:35 | Anikita Bharat Avhad | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 10:12 | Prathamesh Ramesh Nimbalkar | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 10:25 | Kaveri Jitendra More | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 10:27 | Utkarsh Prashant Deshpande | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 10:53 | Rupesh Shivaji Pawase | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 11:14 | Sanskriti Dipak Suryawanshi | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 20:25 | Rishabh Shivram Zinjurde | 410244(D) Object Oriented Modeling and Design | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 20:52 | Mayur Balu Kulkarni | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 21:11 | Aanchal Pandurang Avhad | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 21:15 | Nikita Sandip Godse | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 21:26 | Nilima Manohar Ghuge | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 21:26 | Vishal Vishnu Chavhan | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 22:20 | Vaishnavi Veeresh Karpe | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:02 | Monika Jayprakash Vishwakarma | 410244(D) Object Oriented Modeling and Design | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:24 | Shubhangi Sadashiv Kangane | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:26 | Nikita Rameshwar Gawali | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:26 | Manjusha Appasahab Vignhe | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:27 | Prajakta Ashok Jagtap | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:28 | Snehal Vijay ugale | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:28 | Harshal Baban Magar | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:29 | Rohit Shivaji Kute | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:30 | MRUNAL LAHANBHAI CHAUDHARI | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:40 | Abhishek Rajendra Patil | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:41 | Sonali Santosh Kuwari | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:43 | Rutuja Jalinder Achav | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:43 | Nikita Shankar Shelke | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:44 | Vidya Rishi | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:44 | Nikita Ambadas Murkute | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:45 | Mrunal Sahjay Chavhan | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |
| 03/08/2022 23:49 | Pooja Sharad Sangle | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance | |

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|------------------|--------------------------------|---|--|
| 03/08/2022 23:51 | Bhushan Sanjay Dharme | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 00:12 | Darshan Rajendra Khaimar | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 00:13 | Megha Dhananjay Ahire | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 00:19 | Bhavana Pandit Kalyare | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 00:27 | Ruchita Rajendra Sawant | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 00:37 | Rutika Dagdu Salve | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 00:37 | Ajinkya Ramdas Pawar | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 00:40 | Chetana Mahendra Pakhele | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 00:41 | Rutuja Vishnu Shinde | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 01:02 | Punam Balasaheb Deshmukh | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 01:05 | Dipti Sharadpuri Gosavi | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 01:09 | Manas Vasudeo Badhan | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 02:04 | Shubham Vijay Jadhav | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 02:25 | Vrushali Dnyaneshwar Nanpaware | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 02:58 | Satyam Pravin Kanawade | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 03:03 | Rutuja RajendraKumar Gite | 410244(D): Object Oriented Modeling and Design | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 03:22 | Aniket Ramdas Shinde | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 04:09 | Takate Pratiksha Khandu | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 05:18 | Pratik Prakash Dhamne | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 05:58 | Vivek Anil Bobade | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 06:52 | Rushikesh Khandekar Antre | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 08:10 | Aishwarya Vishnu Ahire | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 04/08/2022 19:28 | Tejaswini shivaji kere | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 05/08/2022 02:56 | Pooja Rajendra Kokane | 410244(D): Object Oriented Modeling and Design | 41025(D): Software Testing and Quality Assurance |
| 07/08/2022 03:53 | PRASAD NAMDEV HINGE | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 07/08/2022 03:54 | Shweta Tukaram Avhad | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |
| 10/08/2022 01:15 | WAGHMARE | 410244(C): Cyber Security and Digital Forensics | 41025(D): Software Testing and Quality Assurance |

SUBJECT TEACHER

HOD
Asstt.Prof. & H.O.D
 Computer Engineeering Department
 SVIT, Chiplun
 Tel:Sinnar, Dist:Nashik (422 401)



Savitribai Phule Pune University
Fourth Year of Computer Engineering (2019 Course)
Elective V

410245 (D): Software Testing and Quality Assurance

Teaching Scheme:
TH: 03 Hours/Week

Credit
03

Examination Scheme:
In-Sem (Paper): 30 Marks
End-Sem (Paper): 70 Marks

Prerequisite Courses: Software Engineering (210253), Software Project Management(310245(D))
Companion Course: Lab Practice IV

Course Objectives:

- Introduce basic concepts of software testing.
- Understand the best way to increase the effectiveness, test coverage, and execution speed in software testing.
- Understand white box, block box, object oriented, web based and cloud testing.
- Understand the importance of software quality and assurance software systems development.
- Know in details automation testing and tools used for automation testing.
- To learn and understand the combination of practices and tools that are designed to help QA professionals test more efficiently.

Course Outcomes:

On completion of the course, student will be able to—

- CO1:** Describe fundamental concepts in software testing such as manual testing, automation testing and software quality assurance.
- CO2:** Design and Develop project test plan, design test cases, test data, and conduct test operations.
- CO3:** Apply recent automation tool for various software testing for testing software.
- CO4:** Apply different approaches of quality management, assurance, and quality standard to software system.
- CO5:** Apply and analyze effectiveness Software Quality Tools.
- CO6:** Apply tools necessary for efficient testing framework.

Course Contents

| Unit I | Introduction to Software Testing | 07 Hours |
|---------------|---|-----------------|
|---------------|---|-----------------|

Introduction: historical perspective, Definition, Core Components, Customers suppliers and process, Objectives of Testing, Testing and Debugging, Need of Testing, Quality Assurance and Testing, Why Software has Errors, Defects and Failures and its Causes and Effects, Total Quality Management(TQM), Quality practices of TQM, Quality Management through- Statistical process Control, Cultural Changes, Continual Improvement cycle, Benchmarking and metrics, Problem Solving Techniques and Software Tools, Software Quality, Constraints of Software product Quality assessment, Quality and Productivity Relationship, Requirements of Product, Software Development Process, Types of Products, Software Development Lifecycle Models, Software Quality Management, Processes related to Software Quality, Quality Management System's Structure, Pillars of Quality Management System, Important aspects of quality management.

#Exemplar/Case Studies

1. Offshore delivery model for an Airline Company.
2. SAP test automation CoE for Financial Service Provider.



Savitribai Phule Pune University

Fourth Year of Computer Engineering (2019 Course)

410244(C): Cyber Security and Digital Forensics

| | | |
|---|----------------------------|---|
| Teaching Scheme: TH: 03 Hours/Week | Credit 03 | Examination Scheme: In-Sem (Paper): 30 Marks End-Sem (Paper): 70 Marks |
|---|----------------------------|---|

Prerequisite Courses: Computer Networks and Security(310244), Information Security(310254(A))

Companion Course: 410246: Laboratory Practice IV

Course Objectives:

- To enhance awareness cyber forensics.
- To understand issues in cyber crime and different attacks
- To understand underlying principles and many of the techniques associated with the digital forensic practices
- To know the process and methods of evidence collection
- To analyze and validate forensic data collected.
- To apply digital forensic knowledge to use computer forensic tools and investigation report writing.

Course Outcomes: At the end of the course, the student should be able to:

CO1: Analyze threats in order to protect or defend it in cyberspace from cyber-attacks.

CO2: Build appropriate security solutions against cyber-attacks.

CO3:Underline the need of digital forensic and role of digital evidences.

CO4: Explain rules and types of evidence collection

CO5: Analyze, validate and process crime scenes

CO6: Identify the methods to generate legal evidence and supporting investigation reports.

Course Contents

| Unit 1 | Introduction to Cyber Security | 06 Hours |
|---|---|-----------------|
| Introduction and Overview of Cyber Crime, Nature and Scope of Cyber Crime, Types of Cyber Crime: crime against an individual, Crime against property, Cyber extortion, Drug trafficking, cyber terrorism. Need for Information security, Threats to Information Systems, Information Assurance, Cyber Security, and Security Risk Analysis. | | |
| #Exemplar/Case Studies | Data Breach Digest – Perspective & Reality : http://verizonenterprise.com/databreachdigest | |
| *Mapping of Course Outcome for Unit I | CO1 | |
| Unit 2 | Cyber Crime Issues and Cyber attacks | 06 Hours |
| Unauthorized Access to Computers, Computer Intrusions, Viruses, and Malicious Code, Internet Hacking and Cracking, Virus and worms, Software Piracy, Intellectual Property, Mail Bombs, Exploitation, Stalking and Obscenity in Internet, Cybercrime prevention methods, Application security (Database, E-mail, and Internet), Data Security Considerations-Backups, Archival Storage and Disposal of Data, Security Technology-Firewall and VPNs, Hardware protection mechanisms, OS Security | | |
| #Exemplar/Case Studies | Cyber Stalking types & their cases respectively | |
| *Mapping of Course Outcome for Unit II | CO2 | |
| Unit 3 | Introduction to Digital Forensics | 06 Hours |
| What is Computer Forensics?, Use of Computer Forensics in Law Enforcement, Computer Forensics Assistance to Human Resources/Employment Proceedings, Computer Forensics Services, Benefits of Professional Forensics Methodology, Steps taken by Computer Forensics Specialists Types of Computer | | |

Academic year 2022-23
BE COMPUTER ENGINEERING
Elective subject choice Response

| Timestamp | Email Address | Score | Roll No : | Name of the Students(Last Name, First Name, Middle Name) | Elective II : Information Security | Elective II : Cloud Computing |
|--------------------|---------------------------------|-------|-----------|--|------------------------------------|-------------------------------|
| 1/12/2022 12:20:38 | aniketshinde3404@gmail.com | 0 | 85 | Shinde Aniket Ramdas | No | Yes |
| 1/12/2022 12:29:48 | ahiremegha5@gmail.com | 0 | 32 | Ahire Megha Dhananjay | No | Yes |
| 1/12/2022 12:34:34 | sr.nilmaghuge@gmail.com | 0 | 78 | Ghuge Nilma Manohar | No | Yes |
| 1/12/2022 12:38:50 | kaleaditya643@gmail.com | 0 | 15 | Kale Aditya yuvraj | | Cloud computing |
| 1/12/2022 12:40:07 | rutujashinde6886@gmail.com | 0 | 25 | Rutuja Vishnu Shinde | No | Yes |
| 1/12/2022 12:40:34 | ritikzinjurde@gmail.com | 0 | 41 | Ritik Shivram Zinjurde | No | Yes |
| 1/12/2022 12:42:32 | rahulkhemnar44@gmail.com | 0 | 80 | Khemnar Rahul Vitthal | Yes | No |
| 1/12/2022 12:42:52 | vaishnavinavajire11@gmail.com | 0 | 48 | Bhatjire vaishnavi deepak | No | Yes |
| 1/12/2022 12:43:20 | vrushali251001@gmail.com | 0 | 02 | Nannaware Vrushali Dnyaneshwar | No | Yes |
| 1/12/2022 12:43:43 | utkarshaerande5@gmail.com | 0 | 77 | Erande Utkarshe subhash | No | Yes |
| 1/12/2022 12:43:54 | sanketsk138@gmail.com | 0 | 27 | Kandekar Sanket Dattatray | No | Yes |
| 1/12/2022 12:59:17 | ritikzinjurde@gmail.com | 0 | 41 | Zinjurde Ritik Shivram | NO | YES |
| 1/12/2022 12:59:22 | gauravchavango123@gmail.com | 0 | 72 | Chavan Gaurav Ashok | None | Yess |
| 1/12/2022 13:00:25 | rutujaadithav276@gmail.com | 0 | 74 | Adhav Rutuja Jalindar | Yes | No |
| 1/12/2022 13:04:01 | ayushsinha24@gmail.com | 0 | 40 | KrishnaGopal Sinha | No | Yes |
| 1/12/2022 13:04:06 | monikavishwa9@gmail.com | 0 | 87 | Vishwakarma Monika Jayprakash | Yes | No |
| 1/12/2022 13:06:14 | gauravkhaimar2106@gmail.com | 0 | 28 | KHAIRNAR GAJURAV PRAKASH | No | Yes |
| 1/12/2022 13:16:07 | rohitkule898@gmail.com | 0 | 55 | Kute Rohit Shivaji | Yes | No |
| 1/12/2022 13:16:11 | vishalc2901@gmail.com | 0 | 62 | Chavhan Vishal Vishnu | Yes | No |
| 1/12/2022 13:17:26 | nktgodase@gmail.com | 0 | 08 | Godase Nikita Sandip | No | Yes |
| 1/12/2022 13:18:43 | gitejeswini2001@gmail.com | 0 | 16 | Gite Tejaswini Ramkrushna | No | Yes |
| 1/12/2022 13:24:58 | abhid8219@gmail.com | 0 | 36 | Deshmukh Abhishek Sachin | No | Yes |
| 1/12/2022 13:25:23 | bhushandharane@gmail.com | 0 | 29 | Dharane Bhushan Sanjay | No | Yes |
| 1/12/2022 13:30:41 | nikitagawali77@gmail.com | 0 | 49 | Gawali Nikita Rameshwar | No | Yes |
| 1/12/2022 13:31:11 | gayatriautade24@gmail.com | 0 | 31 | Autade Gayatri Shyndas | No | Yes |
| 1/12/2022 13:37:31 | rajputanika18@gmail.com | 0 | 24 | Chauhan sanika stendrasing | No | Yes |
| 1/12/2022 13:39:26 | prathameshnimbalkar45@gmail.com | 0 | 17 | Nimbalkar Prathamesh Ramesh | No | Yes |
| 1/12/2022 13:41:15 | aartipandit8888@gmail.com | 0 | 22 | Pandit aarti budhbala | No | Yes |
| 1/12/2022 13:41:47 | mayurkatkade1310@gmail.com | 0 | 03 | Katkade Mayur Balu | No | Yes |
| 1/12/2022 13:42:16 | murmukulenikita2001@gmail.com | 0 | 10 | Murkute Nikita Ambadas | - | Yes |
| 1/12/2022 13:49:34 | mrunalchaudhari2002@gmail.com | 0 | 71 | Chaudhari mrunal laharibhai | No | Yes |
| 1/12/2022 13:49:47 | avhadarchana315@gmail.com | 0 | 39 | Avhad Archana pandurang | No | Yes |

| | | | | | | |
|--------------------|-----------------------------------|---|----|-----------------------------|-----|-----|
| 1/12/2022 13:50:12 | ankitaavhad9@gmail.com | 0 | 09 | Avhad Ankita Bharat | - | Yes |
| 1/12/2022 13:51:23 | pawaserupesh6@gmail.com | 0 | 11 | Pawase Rupesh Shivaji | No | Yes |
| 1/12/2022 14:13:37 | aishwaryaa6363@gmail.com | 0 | 33 | Ahire Aishwarya Vishnu | No | Yes |
| 1/12/2022 15:22:45 | shukladivya827@gmail.com | 0 | 01 | Shukla Divya Vijaypratap | No | Yes |
| 1/12/2022 15:32:23 | nitakshichangle@gmail.com | 0 | 12 | Changle Nitaksi Bharat | No | Yes |
| 1/12/2022 15:36:15 | chetanapakhalte@gmail.com | 0 | 05 | Pakhale chetana Mahendra | Yes | No |
| 1/12/2022 15:44:38 | preranasanap94@gmail.com | 0 | 51 | Sanap prerana bhausahab | Yes | No |
| 1/12/2022 15:53:32 | kanganeshubhang2000@gmail.com | 0 | 63 | Kanganeshubhangi sadashiv | yes | no |
| 1/12/2022 15:54:05 | sahildarade17@gmail.com | 0 | 45 | DARADE SAHIL DAULAT | No | Yes |
| 1/12/2022 16:01:51 | dipalisanap1307@gmail.com | 0 | 35 | Sanap dipali dinkar | No | Yes |
| 1/12/2022 16:13:01 | dipthgosavi2000@gmail.com | 0 | 50 | Gosavi Dipali Sharadpuri | Yes | No |
| 1/12/2022 16:17:51 | darshankhairnar007@gmail.com | 0 | 14 | Khairnar Darshan Khairnar | No | Yes |
| 1/12/2022 16:21:07 | peeyajbhopit65@gmail.com | 0 | 53 | Bhopi Pooja Balkrushna | Yes | No |
| 1/12/2022 16:35:56 | manasbadhan@gmail.com | 0 | 69 | Badhan Manas Vasudeo | No | Yes |
| 1/12/2022 16:49:11 | manjushavighne@gmail.com | 0 | 46 | Vighne Manjusha Appasaheb | No | Yes |
| 1/12/2022 17:08:13 | tejaswinikere123@gmail.com | 0 | 37 | Kere Tejaswini shivaji | No | Yes |
| 1/12/2022 17:09:30 | rushikeshantre3003@gmail.com | 0 | 07 | Rushikesh Khanderav Antre | No | Yes |
| 1/12/2022 17:10:43 | takatepratiksha2001@gmail.com | 0 | 08 | Takate Pratiksha Khandu | No | Yes |
| 1/12/2022 17:10:58 | harshalmagar5@gmail.com | 0 | 21 | Magar Harshal Baban | No | Yes |
| 1/12/2022 18:17:07 | pb8377668@gmail.com | 0 | 57 | Jagtap Prajakta Ashok | No | Yes |
| 1/12/2022 18:22:25 | nutujagite5@gmail.com | 0 | 79 | Gite Rutuja Rajendrakumar | Yes | No |
| 1/12/2022 18:39:53 | sanglepooja3011@gmail.com | 0 | 44 | Sangle Pooja Sharad | No | Yes |
| 1/12/2022 18:49:24 | mrunalchavhan9754@gmail.com | 0 | 73 | Chavhan Mrunal Sanjay | Yes | No |
| 1/12/2022 19:06:19 | vidyanishi87@gmail.com | 0 | 38 | Vidya Rishi | No | Yes |
| 1/12/2022 19:10:43 | shubhangiwaghmare2722@gmail.com | 0 | 04 | Waghmare Shubhangi Rawsahab | No | Yes |
| 1/12/2022 19:11:38 | sanskritisuryawanshi.00@gmail.com | 0 | 86 | Suryawanshi Sanskruti Dipak | Yes | No |
| 1/12/2022 19:14:13 | satyamkanawade@gmail.com | 0 | 18 | Kanswade Satyam Pravin | No | Yes |
| 1/12/2022 20:17:53 | milinddhade055@gmail.com | 0 | 66 | DHADE MILIND GANESH | Yes | Yse |
| 1/12/2022 20:38:36 | utkarshdeshpande95@gmail.com | 0 | 60 | Deshpande Utkarsh Prashant | No | Yes |
| 1/12/2022 20:44:06 | kaverimore243@gmail.com | 0 | 61 | More kaveri Jitendra | No | Yes |
| 1/12/2022 20:45:38 | kaverimore243@gmail.com | 0 | 61 | More Kaveri Jitendra | No | Yes |
| 1/12/2022 21:02:41 | smikitashelke280@gmail.com | 0 | 84 | Shelke Nikita Sharikar | No | Yes |
| 1/12/2022 21:46:17 | vaishnavikarpervk@gmail.com | 0 | 23 | Karpe Vaishnavi Vajnath | Yes | No |
| 1/12/2022 22:34:45 | snehalvugale2001@gmail.com | 0 | 19 | Ugale snehal vijay | Yes | No |
| 1/13/2022 7:18:16 | kuwarsonali4@gmail.com | 0 | 42 | Kuwar Sonali Santosh | Yes | No |
| 1/13/2022 8:14:01 | rajeshwankhade49@gmail.com | 0 | 26 | Khade Rajeshwari Ganpat | No | Yes |
| 1/13/2022 10:43:29 | ppdhamne05@gmail.com | 0 | 76 | Dhamne Pratik Prakash | No | Yes |
| 1/13/2022 11:54:56 | hingeprasad.pnh@gmail.com | 0 | 20 | Hinge Prasad Namdev | No | Yes |
| 1/15/2022 11:51:01 | madhuripalve8866@gmail.com | 0 | 52 | Palve Madhuri Pandurang | No | Yes |
| 1/15/2022 17:14:09 | shwetaavhad083@gmail.com | 0 | 43 | Avhad Shweta Tukaram | Yes | - |

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Savitribai Phule Pune University

Third Year of Computer Engineering (2019 Course)
(With effect from Academic Year 2021-22)[Home](#)

Semester VI

| Course Code | Course Name | Teaching Scheme (Hours/week) SS | | | Examination Scheme and Marks | | | | | Credit Scheme | | | | | | | | |
|-------------|--|---------------------------------|-----------|-----------|------------------------------|------------|------------|------------|-----------|---------------|------------|-----------|-----------|--------------|-----------|-----------|----------|-----------|
| | | SS | Lecture | Practical | Tutorial | Mid-Sem | End-Sem | Term work | Practical | Oral | Total | Lecture | Practical | Tutorial | Total | | | |
| 310251 | Data Science and Big Data Analytics | 04 | - | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | | | |
| 310252 | Web Technology | 04 | - | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | | | |
| 310253 | Artificial Intelligence | 04 | - | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | | | |
| 310254 | Elective II | 04 | - | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | | | |
| 310255 | Internship** | - | - | - | - | - | - | 100 ** | - | - | 100 | - | - | - | 04 ** | | | |
| 310256 | Data Science and Big Data Analytics Laboratory | - | 04 | - | - | - | - | 50 | 25 | - | 75 | - | 02 | - | 02 | | | |
| 310257 | Web Technology Laboratory | - | 02 | - | - | - | - | 25 | - | 25 | 50 | - | 01 | - | 01 | | | |
| 310258 | Laboratory Practice II | - | 04 | - | - | - | - | 50 | 25 | - | 75 | - | 02 | - | 02 | | | |
| | | Total | 12 | 10 | - | 120 | 280 | 225 | 50 | 25 | 700 | 12 | 09 | - | 21 | | | |
| 310259 | Audit Course 6 | | | | | | | | | | | Grade | | | | | | |
| | | | | | | | | | | | | | | Total | 12 | 09 | - | 21 |

310254 Elective II Options:

- 310254(A) Information Security
 310254(B) Augmented and Virtual Reality
310254(C) Cloud Computing
 310254(D) Software Modeling and Architectures

310259 Audit Course 6 Options:

- 310259(A) Digital and Social Media Marketing
 310259(B) Sustainable Energy Systems
 310259(C) Leadership and Personality Development
 310259(D) Foreign Language
 310259(E) Learn New Skills

Laboratory Practice II:

Assignments from Artificial Intelligence and Elective II.

**** Internship:**

Internship guidelines are provided in course curriculum sheet.

SS Hours/Week for Theory Course in Third Year of Engineering, Semester VI:

As per the apex bodies' recommendations and guidelines, it is need of the day to train the pre-final year students for the industrial readiness through internship. As per the guidelines of AICTE, the duration of internship is 4-6 weeks after completion of semester V and before commencement of semester VI, so it is apparent that the contact hours of the TF students need to be managed meticulously. It becomes mandatory as per the structure that 4 credits for internship must be earned by the students. Per semester, 15 weeks duration that is suggested ideally by the affiliated university will eventually reduce to fruitful 12 weeks after the implementation of the revised curriculum (2019 Course). With the evaluatory introduction of internship in the structure, we are left with the choice of 4 theory courses in the sixth semester with 12 weeks instead of traditional 15 weeks. To balance the credits and to achieve the minimum required contact hours, it is the reasonable choice to allot 4 hours / week for each theory course of the sixth semester of Third year of Engineering. The additional one lecture/ week will definitely be instrumental in achieving the largest of minimum contact hours. As such there is no correspondence of weekly load and credits earned, the credit allotted per course remain intact despite of the change. So it is almost imperative that the commencement of VI Semester need to be approx. 3 weeks beyond the schedule.

Savitribai Phule Pune University
Third Year of Computer Engineering (2019 Course)

Elective II**310254(C): Cloud Computing****Teaching Scheme:****Credit: 03****Examination Scheme:****Theory: 04 Hours/Week^{SS}****Mid-Semester (TH) : 30 Marks****End-Sem (TH): 70 Marks**

Prerequisites Courses: Computer Networks and Security(310244), Distributed Systems (310245C)

Companion Course: Laboratory Practice II (310258)

Course Objectives:

- To study fundamental concepts of cloud computing
- To learn various data storage methods on cloud
- To understand the implementation of Virtualization in Cloud Computing
- To learn the application and security on cloud computing
- To study risk management in cloud computing
- To understand the advanced technologies in cloud computing

Course Outcomes:

On completion of the course, learners should be able to

CO1: Understand the different Cloud Computing environment

CO2: Use appropriate data storage technique on Cloud, based on Cloud application

CO3: Analyze virtualization technology and install virtualization software

CO4: Develop and deploy applications on Cloud

CO5: Apply security in cloud applications

CO6: Use advance techniques in Cloud Computing

Course Contents

| | | |
|---------------|--|-----------------|
| Unit I | Introduction to Cloud Computing | 07 Hours |
|---------------|--|-----------------|

Importance of Cloud Computing, Characteristics, Pros and Cons of Cloud Computing, Migrating into the Cloud, Seven-step model of migration into a Cloud, Trends in Computing. **Cloud Service Models:** SaaS, PaaS, IaaS, Storage. **Cloud Architecture:** Cloud Computing Logical Architecture, Developing Holistic Cloud Computing Reference Model, Cloud System Architecture, Cloud Deployment Models.

#Exemplar/Case Studies Cloud Computing Model of IBM

***Mapping of Course Outcomes for Unit I** CO1

| | | |
|----------------|---|-----------------|
| Unit II | Data Storage and Cloud Computing | 07 Hours |
|----------------|---|-----------------|

Data Storage: Introduction to Enterprise Data Storage, Direct Attached Storage, Storage Area Network, Network Attached Storage, Data Storage Management, File System, Cloud Data Stores, Using Grids for Data Storage. **Cloud Storage:** Data Management, Provisioning Cloud storage, Data Intensive Technologies for Cloud Computing. **Cloud Storage from LANs to WANs:** Cloud Characteristics, Distributed Data Storage.

#Exemplar/Case Studies Online Book Marketing Service, Online Photo Editing Service

BE Electrical (2019 Course)

SEM-I

| Course Code | Course Name | Teaching Scheme | | | | Examination Scheme | | | | | | Credit | | | | |
|---|----------------------------------|-----------------|----------|--|----------|--------------------|------------|------------|----------|--|------------|-----------|----------|----------|----------|-----------|
| | | Th | Pr | Tu | PW | ISE | ESE | TW | PR | OR | Total | Th | Pr | Tu | PW | Total |
| 403141 | Power System Operation & Control | 3 | 2 | - | - | 30 | 70 | 25 | - | 25 | 150 | 3 | 1 | - | - | 4 |
| 403142 | Advanced Control System | 3 | 2 | - | - | 30 | 70 | - | - | 50 | 150 | 3 | 1 | - | - | 4 |
| 403143 | Elective-I | 3 | 2 | - | - | 30 | 70 | - | - | 25 | 125 | 3 | 1 | - | - | 4 |
| 403144 | Elective-II | 3 | - | 2* | - | 30 | 70 | 25 | - | - | 125 | 3 | - | 1 | - | 4 |
| 403145 | Project Stage-I | - | - | - | 4 | - | - | 50 | - | 50 | 100 | - | - | - | 2 | 2 |
| 403146 | MOOCs | - | - | - | - | - | - | 50 | - | - | 50 | - | - | - | 2 | 2 |
| 403147 | Audit Course-VII | 2# | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | 12 | 6 | 2 | 4 | 120 | 280 | 150 | - | 150 | 700 | 12 | 3 | 1 | 4 | 20 |
| 403143: Elective-I | | | | 403144: Elective-II | | | | | | 403147: Audit Course-VII | | | | | | |
| 403143A: PLC and SCADA 403143B: Power Quality Management 403143C: High Voltage Engineering ✓ 403143D: Robotics and Automation | | | | 403144A : Alternate Energy System 403144B : Electrical & Hybrid Vehicle ✓ 403144C : Special-purpose Machines 403144D: HVDC & FACTS | | | | | | 403147 A: German Language I 403147B: Engineering Economics I 403147C: Sustainability(IGBC) | | | | | | |

SEM-II

| Course Code | Course Name | Teaching Scheme | | | | Examination Scheme | | | | | | Credit | | | | |
|---|--------------------------------------|-----------------|----------|--|-----------|--------------------|------------|------------|-----------|---|------------|-----------|----------|----------|----------|-----------|
| | | Th | Pr | Tu | PW | ISE | ESE | TW | PR | OR | Total | Th | Pr | Tu | PW | Total |
| 403148 | Switchgear and Protection | 3 | 2 | - | - | 30 | 70 | 25 | - | 50 | 175 | 3 | 1 | - | - | 4 |
| 403149 | Advanced Electrical Drives & Control | 3 | 2 | - | - | 30 | 70 | 25 | 50 | - | 175 | 3 | 1 | - | - | 4 |
| 403150 | Elective-III | 3 | - | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | - | 3 |
| 403151 | Elective-IV | 3 | - | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | - | 3 |
| 403152 | Project stage II | - | - | - | 12 | - | - | 100 | - | 50 | 150 | - | - | - | 6 | 6 |
| 403153 | Audit course VIII | 2# | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | 12 | 4 | - | 12 | 120 | 280 | 150 | 50 | 100 | 700 | 12 | 2 | - | 6 | 20 |
| 403150: Elective-III | | | | 403151: Elective-IV | | | | | | 403153: Audit Course-VIII | | | | | | |
| 403150 A : Digital Control System 403150 B : Restructuring and Deregulation 403150 C: Smart Grid ✓ 403150 D: Sensor Technology (Open Elective) | | | | 403151A: EHV AC Transmission 403151B : Illumination Engineering ✓ 403151C: Electromagnetic Fields 403151D: AI and ML (Open Elective) | | | | | | 403153A: German Language II 403153B: Engineering Economics II 403153C: Green Building | | | | | | |
| <p>* For the tutorial, one credit is given. # Audit Course: Conduct over and above these lectures.</p> <p style="text-align: right;"><i>N. S. G. H. O. D.</i></p> | | | | | | | | | | | | | | | | |

Electronics and Telecommunication Engineering

Notice

Date: 3 July 2022

All BE E&TC students are hereby informed that following Elective Subjects are offered by SPPU and all are requested to give their choice for elective subject in given format

| Academic Year | Semester | Name of the Class | Name of Elective Subject |
|---------------|----------|-------------------------|--|
| 2022-23 | Sem 1 | B.E. E&TC (2019 Course) | Elective -III 1. Speech Processing 2. PLC SCADA & Automation 3. JAVA Script 4. Embedded & RTOS 5. Modernized IoT Elective -IV 1. Data Mining 2. Electronic Product Development 3. Deep Learning 4. Low Power CMOS 5. Smart Antennas |



Class Teacher
Mr. Liladhar Bhamare



HOD ETC
Ms Archana Hatkar

H.O.D.

Department of Electronics & Telecommunication Engineering
S.Y.B.T.E., P.T.U., Santacruz (W), Mumbai

Electronics and Telecommunication Engg
Elective III subject choice B.E. E&TC 2022 23

Sem 1

| Roll No | Name | Subject elected III | Subject elected IV | Signature |
|---------|-------------------------|---------------------|--------------------------------|-----------|
| 1 | Aniket Kiran Adhav | Modernized IoT | Electronic Product Development | |
| 2 | Akhade Shruti | Modernized IoT | Electronic Product Development | |
| 3 | Anuja Sanjay Gadekar | Modernized IoT | Electronic Product Development | |
| 4 | Apeksha Manohar Avhad | Modernized IoT | Electronic Product Development | |
| 5 | Avhad Arpita Ashok | Modernized IoT | Electronic Product Development | |
| 6 | Avhad Nikita | Modernized IoT | Electronic Product Development | |
| 7 | Avhad Swarupa Baban | Modernized IoT | Electronic Product Development | |
| 8 | Bhagwat Ravi | Modernized IoT | Electronic Product Development | |
| 9 | Chavanke Tejal Avinash | Modernized IoT | Electronic Product Development | |
| 10 | Chopade Shubhangi D | Modernized IoT | Electronic Product Development | |
| 11 | Gaidhani Sakshi | Modernized IoT | Electronic Product Development | |
| 12 | Ghumare Snehal Valmik | Modernized IoT | Electronic Product Development | |
| 13 | Gore Prasad Sachin | Modernized IoT | Electronic Product Development | |
| 14 | Khule Vaishnavi Sunil | Modernized IoT | Electronic Product Development | |
| 15 | Kotkar Rutuja | Modernized IoT | Electronic Product Development | |
| 16 | Kushare arati shantaram | Modernized IoT | Electronic Product Development | |
| 17 | Malwal Tejal | Modernized IoT | Electronic Product Development | |
| 18 | Mhasalkar Snehal | Modernized IoT | Electronic Product Development | |
| 19 | Muntode Amrapali | Modernized IoT | Electronic Product Development | |
| 20 | Nathe Rutuja Vitthal | Modernized IoT | Electronic Product Development | |
| 21 | Papal Rutuja | Modernized IoT | Electronic Product | |

| | | | | |
|----|-------------------------|----------------|---|----------------|
| 22 | patil Aniket kishor | Modernized IoT | Development Electronic Product Development | <i>Ravita</i> |
| 23 | patil Pratik bhagwan | Modernized IoT | Development Electronic Product Development | <i>PPB</i> |
| 24 | Mohan Pawar | Modernized IoT | Development Electronic Product Development | <i>Om</i> |
| 25 | Pradnya Bharambe | Modernized IoT | Development Electronic Product Development | <i>Bina</i> |
| 26 | Shaikh Farheen | Modernized IoT | Development Electronic Product Development | <i>ff</i> |
| 27 | Sonwane Akshay | Modernized IoT | Development Electronic Product Development | <i>Akshay</i> |
| 28 | Ankita navnath sonawane | Modernized IoT | Development Electronic Product Development | <i>Ankita</i> |
| 29 | Pallavi Sopan Sonwane | Modernized IoT | Development Electronic Product Development | <i>Pallavi</i> |
| 30 | Samadhan Uttam Sonwane | Modernized IoT | Development Electronic Product Development | <i>SOS</i> |



Class Teacher
Mr. Liladhar Bhamare



HOD ETC
Ms Archana Hatkar

H.O.D.
Department of Electronics & Telecommunication Engg.
S.Y.T., Tel. Science
Col. Navi Mumbai

Electronics and Telecommunication Engineering

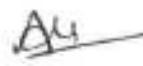
Notice

Date: 11 dec 2022

All BE E&TC students are here by informed that following Elective Subjects are offered by SPPU and all are requested to give their choice for elective subject in given format

| Academic Year | Semester | Name of the Class | Name of Elective Subject |
|---------------|----------|------------------------|---|
| 2022 23 | Sem 2 | B.E. E&TC(2019 Course) | <p>Elective -V</p> <ul style="list-style-type: none"> 1. Biomedical Signal Processing 2. Industrial Drives & Automation 3. Android Development 4. Embedded System Design 5. Mobile Computing <p>Elective -VI</p> <ul style="list-style-type: none"> 1. System on Chip 2. Nano Electronics 3. Remote Sensing 4. Digital Marketing 5. Open Elective |


Class Teacher
Mr. Liladhar Bhamare


HOD ETC
Ms Archana Hatkar

H.O.D.
Department of Electronics & Telecommunication Engg.
SVCE, Tatyasaheb Kore
Dist. Nashik

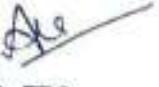
Elective subject choice B.E. E&TC 2022 23

Sem 2

| Roll No | Name | Subject elected V | Subject elected VI | Signature |
|---------|-------------------------|-------------------|--------------------|-----------------|
| 1 | Aniket Kiran Adhay | Mobile Computing | Digital Marketing | |
| 2 | Akhade Shruti | Mobile Computing | Digital Marketing | |
| 3 | Anuja Sanjay Gadekar | Mobile Computing | Digital Marketing | |
| 4 | Apeksha Manohar Avhad | Mobile Computing | Digital Marketing | Anja Apeksha |
| 5 | Avhad Arpita Ashok | Mobile Computing | Digital Marketing | AAA |
| 6 | Avhad Nikita | Mobile Computing | Digital Marketing | NA |
| 7 | Avhad Swarupa Baban | Mobile Computing | Digital Marketing | |
| 8 | Bhagwat Ravi | Mobile Computing | Digital Marketing | Ravi |
| 9 | Chavanke Tejal Avinash | Mobile Computing | Digital Marketing | Tejal |
| 10 | Chopade Shubhangi D | Mobile Computing | Digital Marketing | |
| 11 | Gaidhani Sakshi | Mobile Computing | Digital Marketing | |
| 12 | Ghumare Snehal Valmik | Mobile Computing | Digital Marketing | Snehal |
| 13 | Gore Prasad Sachin | Mobile Computing | Digital Marketing | (Gore) |
| 14 | Khule vaishnavi Sunil | Mobile Computing | Digital Marketing | VSK |
| 15 | Kotkar Rutuja | Mobile Computing | Digital Marketing | Rutuja |
| 16 | Kushare arati shantaram | Mobile Computing | Digital Marketing | Arati |
| 17 | Malwal Tejal | Mobile Computing | Digital Marketing | Tejal |
| 18 | Mhasalkar Snehal | Mobile Computing | Digital Marketing | Snehal |
| 19 | Muntode Amrapali | Mobile Computing | Digital Marketing | MA |
| 20 | Nathe Rutuja Vitthal | Mobile Computing | Digital Marketing | Rutuja |
| 21 | Papal Rutuja | Mobile Computing | Digital Marketing | Rutuja |
| 22 | patil Aniket kishor | Mobile Computing | Digital Marketing | Aniket |
| 23 | patil Pratik bhagwan | Mobile Computing | Digital Marketing | Pratik |
| 24 | Mohan Pawar | Mobile Computing | Digital Marketing | |
| 25 | Pradnya Bharambe | Mobile Computing | Digital Marketing | |
| 26 | Shaikh Farheen | Mobile Computing | Digital Marketing | |
| 27 | Sonwane Akshay | Mobile Computing | Digital Marketing | Akshay |
| 28 | Ankita navnath sonawane | Mobile Computing | Digital Marketing | Ankita |
| 29 | Pallavi Sopan Sonwane | Mobile Computing | Digital Marketing | Pallavi |
| 30 | Samadhan Uttam Sonwane | Mobile Computing | Digital Marketing | SUS |


Class Teacher

Mr. Liladhar Bhamare


HOD ETC
Ms Archana Hatkar
HOD

Savitribai Phule Pune University, Pune
B.E. (Electronics & Telecommunication) 2019 Course
(With effect from Academic Year 2022-23)

Semester-VII

| Course Code | Course Name | Teaching Scheme (Hours/Week) | | | Examination Scheme and Marks | | | | | | Credit | | | | |
|---------------|---|------------------------------|-----------|----------|------------------------------|---------|-----|-----|----|-------|--------|----|-----|-------|----|
| | | Theory | Practical | Tutorial | In-Sem | End-Sem | TW | PR | OR | Total | TH | PR | TUT | Total | |
| 404181 | Radiation & Microwave Theory | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | |
| 404182 | VLSI Design and Technology | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | |
| 404183 | Cloud Computing | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | |
| 404184 | Elective - 3 | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | |
| 404185 | Elective - 4 | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | |
| 404186 | Lab Practice - 1 (RMT & Cloud Computing) | - | 04 | - | - | - | 25 | - | 50 | 75 | - | 02 | - | 02 | |
| 404187 | Lab Practice - 2 (VLSI Design & Elective -3) | - | 04 | - | - | - | 25 | 50 | - | 75 | - | 02 | - | 02 | |
| 404188 | Project Stage - I | - | 02 | - | - | - | 50 | - | - | 50 | - | 01 | - | 01 | |
| 404189 | Mandatory Audit Course 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | | Total | 15 | 10 | - | 150 | 350 | 100 | 50 | 50 | 700 | - | - | - | - |
| Total Credits | | | | | | | | | | | | 15 | 05 | - | 20 |

| Elective - 3 | Elective - 4 |
|---------------------------|-----------------------------------|
| 1. Speech Processing | 1. Data Mining |
| 2. PLC SCADA & Automation | 2. Electronic Product Development |
| 3. JAVA Script | 3. Deep Learning |
| 4. Embedded & RTOS | 4. Low Power CMOS |
| 5. Modernized IoT | 5. Smart Antennas |

| Mandatory Audit Course - 7 |
|-----------------------------------|
| 1. Management Information System |
| 2. Patent Search & Analysis |
| 3. Knowledge Management |
| 4. Energy Economics & Policy |
| 5. Educational Leadership |
| 6. Human Resource Development |

Savitribai Phule Pune University, Pune
B.E. (Electronics & Telecommunication) 2019 Course
(With effect from Academic Year 2022-23)

Semester-VIII

| Course Code | Course Name | Teaching Scheme (Hours/Week) | | | Examination Scheme and Marks | | | | | Credit | | | | | | |
|----------------------|---------------------------------|---------------------------------|-----------|-----------|------------------------------|-----------|------------|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|
| | | Theory | Practical | Tutorial | In-Sem | End-Sem | TW | PR | OR | Total | TH | PR | TUT | Total | | |
| 404190 | Fiber Optic Communication | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | | |
| 404191 | Elective - 5 | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | | |
| 404192 | Elective - 6 | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | | |
| 404193 | Innovation & Entrepreneurship | - | - | 02 | - | - | 50 | - | - | 50 | - | - | 02 | 02 | | |
| 404194 | Digital Business Management | - | - | 02 | - | - | 50 | - | - | 50 | - | - | 02 | 02 | | |
| 404195 | Fiber Optic Lab | - | 02 | - | - | - | 25 | - | 50 | 75 | - | 01 | - | 01 | | |
| 404196 | Lab Practice - 3 (Elective - 5) | - | 02 | - | - | - | 25 | 50 | - | 75 | - | 01 | - | 01 | | |
| 404197 | Project Stage - II | - | 10 | - | - | - | 100 | - | 50 | 150 | - | 05 | - | 05 | | |
| | | Total | 09 | 14 | 04 | 90 | 210 | 250 | 50 | 100 | 700 | - | 09 | 07 | 04 | 20 |
| Total Credits | | | | | | | | | | | 09 | 07 | 04 | 20 | | |

| Elective - 5 | Elective - 6 |
|-----------------------------------|----------------------|
| 1. Biomedical Signal Processing | 1. System on Chip |
| 2. Industrial Drives & Automation | 2. Nano Electronics |
| 3. Android Development | 3. Remote Sensing |
| 4. Embedded System Design | 4. Digital Marketing |
| 5. Mobile Computing | 5. Open Elective |


 H.O.U.
 Savitribai Phule Pune University
 M.G. Road, Pimpri Chinchwad,
 Dist. Pune, Maharashtra
 Pin: 411014

Savitribai Phule Pune University
Third Year of Information Technology (2019 course)
(With effect from Academic Year 2021-22)

Semester-V

| Course Code | Course Name | Teaching Scheme (Hours/ week) | | | Examination Scheme and Marks | | | | | Credit Scheme | | | |
|---------------------|---------------------------------|-------------------------------|-----------|------------|------------------------------|------------|-----------|-----------|------------|---------------|-----------|-----------|-----------|
| | | Theory | Practical | Tutorial | Mid-Sem | End-Sem | Term work | Practical | Oral | Total | Lecture | Practical | Tutorial |
| 314441 | Theory of Computation | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - |
| 314442 | Operating Systems | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - |
| 314443 | Machine Learning | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - |
| 314444 | Human Computer Interaction | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - |
| 314445 | Elective-I | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - |
| 314446 | Operating Systems Lab | - | 04 | - | - | - | 25 | 25 | - | 50 | - | 2 | - |
| 314447 | Human Computer Interaction- Lab | - | 02 | - | - | - | - | - | 50 | 50 | - | 1 | - |
| 314448 | Laboratory Practice-I | - | 04 | - | - | - | 25 | 25 | - | 50 | - | 2 | - |
| 314449 | Seminar | - | 01 | - | - | - | 50 | - | - | 50 | - | 1 | - |
| 314450 | Audit Course 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Credit | | | | | | | | | | 15 | 06 | - | 21 |
| Total | 15 | 11 | - | 150 | 350 | 100 | 50 | 50 | 700 | 15 | 06 | - | 21 |

Abbreviations: TH: Theory, TW: Term Work, PR: Practical , OR: Oral , TUT: Tutorial

Elective-I:

- 314445A- Design and Analysis of Algorithm
- 314445B- Advanced Database and Management System
- 314445C- Design Thinking
- 314445D- Internet of Things

Laboratory Practice-I:

Assignment from Machine Learning and Elective I

Note: Students of T.E. (Information Technology) can opt any one of the audit course from the list of audit courses prescribed by BoS (Information Technology)

Audit Course 5:

- 314450A-Banking and Insurance
- 314450B-Startup Ecosystems
- 314450C- Foreign Language-(Japanese Language- III)

Savitribai Phule Pune University
Third Year of Information Technology (2019 Course)
(With effect from Academic Year 2021-22)

Semester-VI

| Course Code | Course Name | Teaching Scheme (Hours/ week) | | | Examination Scheme and Marks | | | | | | Credit Scheme | | | |
|--------------|-------------------------------------|-------------------------------|-----------|----------|------------------------------|------------|------------|-----------|-----------|------------|---------------|-----------|----------|-----------|
| | | Lecture | Practical | Tutorial | Mid-Sem | End-Sem | Term Work | Practical | Oral | Total | Lecture | Practical | Tutorial | Total |
| 314451 | Computer Networks & Security | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 314452 | Data Science and Big Data Analytics | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 314453 | Web Application Development | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 314454 | Elective-II | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 314455 | Internship | - | 04 | - | - | - | 100 | - | - | 100 | - | 04 | - | 04 |
| 314456 | Computer Networks & Security-Lab | - | 04 | - | - | - | 25 | - | 50 | 75 | - | 02 | - | 02 |
| 314457 | DS & BDA-Lab | - | 02 | - | - | - | 25 | 25 | - | 50 | - | 01 | - | 01 |
| 314458 | Laboratory Practice-II | - | 04 | - | - | - | 50 | 25 | - | 75 | - | 02 | - | 02 |
| 314459 | Audit Course 6 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | | | | | | | | | | 12 | 09 | - | 21 |
| Total | | 12 | 14 | - | 120 | 280 | 200 | 50 | 50 | 700 | 12 | 09 | - | 21 |

Abbreviations: TH: Theory, TW: Term Work, PR: Practical, OR: Oral, TUT: Tutorial

Elective-II:

314454A - Artificial Intelligence

314454B - Cyber Security

314454C - Cloud Computing

314454D - Software Modeling and Design

Laboratory Practice-II:

Assignments from Web Application Development and Elective-II.

Audit Course 6:

314459A - Green and Unconventional Energy

314459B - Leadership and Personality Development

314459C - Foreign Language-(Japanese Language- IV)

TE IT Elective Subject Choice AY 2022-23

| Timestamp | Name of students | Roll no | Name of Elective-I Subject | Name of Elective-II Subject |
|-------------------|-------------------------------|---------|----------------------------------|------------------------------|
| 8/1/2022 10:38:53 | Pranav Bhushan Sonawane | 51 | Internet of Things | Software Modeling and Design |
| 8/1/2022 10:41:04 | Ashish Kothwal | 64 | Internet of Things | Software Modeling and Design |
| 8/1/2022 10:52:57 | Shantanu Popat Pawar | 74 | Design and Analysis of Algorithm | Software Modeling and Design |
| 8/1/2022 11:05:25 | Dumbare Pallavi Rajendra | 14 | Design and Analysis of Algorithm | Software Modeling and Design |
| 8/1/2022 13:13:53 | Kedar pooja sanjay | 27 | Internet of Things | Software Modeling and Design |
| 8/1/2022 14:02:34 | Kurhe Ashutosh Annasaheb | 35 | Internet of Things | Software Modeling and Design |
| 8/1/2022 14:29:58 | Nagare Nikita Umesh | 37 | Design and Analysis of Algorithm | Software Modeling and Design |
| 8/1/2022 15:45:31 | Swapnil Sadanand Ekhande | 15 | Design and Analysis of Algorithm | Software Modeling and Design |
| 8/1/2022 15:45:34 | Ashish Kothwal | 64 | Design and Analysis of Algorithm | Software Modeling and Design |
| 8/1/2022 16:44:37 | Avhad Jayshri bhaskar | 67 | Internet of Things | Software Modeling and Design |
| 8/1/2022 20:34:36 | Yash ajay kedar | 61 | Internet of Things | Software Modeling and Design |
| 8/2/2022 7:38:43 | Kedar Shubhangi Sadashiv | 28 | Internet of Things | Cloud Computing |
| 8/2/2022 10:16:37 | Hemant Shirsat | 50 | Internet of Things | Cloud Computing |
| 8/2/2022 10:24:26 | Pratiksha Uttam Ugale | 53 | Internet of Things | Software Modeling and Design |
| 8/2/2022 11:49:07 | Padol Omkar Dharmanath | 77 | Internet of Things | Software Modeling and Design |
| 8/2/2022 13:21:23 | Holkar ShrutiKA Ravindra | 59 | Internet of Things | Software Modeling and Design |
| 8/2/2022 14:13:38 | Rushikesh Jondhale | 68 | Internet of Things | Software Modeling and Design |
| 8/2/2022 15:48:58 | Rutuja Navnath Barke | 04 | Internet of Things | Software Modeling and Design |
| 8/2/2022 16:09:17 | Shubham Sudhakar Deshmukh | 15 | Internet of Things | Software Modeling and Design |
| 8/2/2022 21:27:33 | Ghuge Archana sanjay | 20 | Internet of Things | Software Modeling and Design |
| 8/3/2022 10:13:25 | Soham pushpak gujrathi | 22 | Internet of Things | Cloud Computing |
| 8/3/2022 11:24:01 | Kokane Nikhil Balasaheb | 33 | Internet of Things | Software Modeling and Design |
| 8/3/2022 16:12:47 | Rohit popat nathe | 63 | Internet of Things | Software Modeling and Design |
| 8/5/2022 11:07:54 | Darade Poonam Shivaji | 10 | Internet of Things | Software Modeling and Design |
| 8/5/2022 18:07:02 | Homeshwari Rajendra Chaudhari | 06 | Internet of Things | Software Modeling and Design |
| 8/5/2022 18:07:24 | Homesh Rajendra Chaudhari | 05 | Internet of Things | Software Modeling and Design |
| 8/5/2022 18:07:41 | HOMESH RAJENDRA CHAUDHARI | 05 | Internet of Things | Cloud Computing |
| 8/5/2022 22:39:50 | Akshata Sanjay Shinde | 46 | Internet of Things | Software Modeling and Design |
| 8/5/2022 22:48:32 | Om Vikhe | 55 | Internet of Things | Software Modeling and Design |
| 8/5/2022 22:55:54 | Pawar Gauri Vinod | 41 | Design and Analysis of Algorithm | Software Modeling and Design |
| 8/6/2022 8:08:26 | Warungase priya Vijay | 58 | Internet of Things | Software Modeling and Design |
| 8/6/2022 14:37:15 | KHARDE NARENDRA RAJENDRA | 31 | Internet of Things | Software Modeling and Design |
| 8/6/2022 16:30:27 | Kokane Dnyaneshwar Pundlik | 62 | Internet of Things | Software Modeling and Design |
| 8/6/2022 18:42:24 | Dhanshree Chandan Umare | 70 | Internet of Things | Software Modeling and Design |
| 8/6/2022 19:37:06 | ANISH KIRAN GAVALI | 19 | Internet of Things | Software Modeling and Design |
| 8/6/2022 20:03:14 | Sairaj subhash naikwadi | 38 | Internet of Things | Cloud Computing |
| 8/6/2022 22:23:00 | Komal Kiran Kapse | 25 | Internet of Things | Cloud Computing |
| | | | | Software Modeling and Design |

| | | | | |
|--------------------|--------------------------|----|--------------------|------------------------------|
| 8/6/2022 22:27:28 | Shruti Vinod karpe | 26 | Internet of Things | Software Modeling and Design |
| 8/7/2022 04:48:02 | Shewale Pallavi Vijay | 72 | Internet of Things | Software Modeling and Design |
| 8/7/2022 13:23:20 | Shinde poorva suresh | 47 | Internet of Things | Software Modeling and Design |
| 8/7/2022 21:07:37 | Ashish Ramdas Avhad | 02 | Internet of Things | Software Modeling and Design |
| 8/8/2022 20:24:50 | Sakshi Devkisan Wagh | 56 | Internet of Things | Software Modeling and Design |
| 8/9/2022 12:18:52 | Komal rajendra sangle | 45 | Internet of Things | Software Modeling and Design |
| 8/10/2022 9:52:11 | Kokane Kajal Manik | 32 | Internet of Things | Software Modeling and Design |
| 8/10/2022 12:50:22 | Pratik Ramdas Walke | 57 | Internet of Things | Software Modeling and Design |
| 8/11/2022 16:22:55 | Kaveri Datta Lonare | 36 | Internet of Things | Software Modeling and Design |
| 8/11/2022 16:35:47 | Sangale pooja bharat | 43 | Internet of Things | Software Modeling and Design |
| 8/12/2022 14:06:00 | Gadakh Prasad Ravindra | 16 | Internet of Things | Software Modeling and Design |
| 8/12/2022 14:08:04 | Gadakh Prasad Ravindra | 16 | Internet of Things | Cloud Computing |
| 8/16/2022 11:58:36 | Mhaske vidya rajaram | 72 | Internet of Things | Software Modeling and Design |
| 8/16/2022 13:03:17 | Avhad Roshan Vishwanath | 03 | Internet of Things | Software Modeling and Design |
| 8/16/2022 21:22:22 | Chourashiya Ajit Rajaram | 07 | Internet of Things | Software Modeling and Design |
| 8/17/2022 9:01:46 | Pekhale Gayatri Ramdas | 65 | Internet of Things | Software Modeling and Design |
| 8/17/2022 12:59:08 | Shubham deshmukh | 12 | Internet of Things | Software Modeling and Design |
| 8/17/2022 13:00:19 | Kere Gaurav shivaji | 29 | Internet of Things | Software Modeling and Design |
| 8/17/2022 15:50:36 | Harshal Rajendra Tilakar | 52 | Internet of Things | Software Modeling and Design |
| 8/17/2022 23:09:25 | Abhishek RAJBHAR | 42 | Internet of Things | Software Modeling and Design |
| 8/18/2022 13:00:49 | Shantanu santosh sangale | 44 | Internet of Things | Software Modeling and Design |
| 8/18/2022 13:10:52 | Pawar Gauri Vinod | 41 | Internet of Things | Cloud Computing |
| 8/18/2022 13:13:09 | Dumbare Pallavi Rajendra | 14 | Internet of Things | Software Modeling and Design |
| 8/18/2022 13:14:54 | Nagare Nikita Umesh | 37 | Internet of Things | Software Modeling and Design |
| 8/18/2022 13:20:49 | GAIKWAD GANESH DAULAT | 17 | Internet of Things | Software Modeling and Design |
| 8/18/2022 21:50:55 | Rahul Dnyaneshwar Kakade | 29 | Internet of Things | Software Modeling and Design |

(Mr.R.S.Bhalerao)

H.O.D

Savitribai Phule Pune University
Final Year of Information Technology (2019 Course)
(With effect from Academic Year 2022-23)

Semester VII

| Course Code | Course Name | Teaching Scheme(Hours/week) | | | Examination Scheme and Marks | | | | | | Credit Scheme | | | | | | | | | | | |
|--|-----------------------------------|-----------------------------|-----------|------------|--|------------|-----------|-----------|------------|-----------|---------------|-----------|-----------|---|--|--|--|--|--|--|--|--|
| | | Lecture | Practical | Tutorial | Mid-Sem | End-Sem | Termwork | Practical | Oral | Total | Lecture | Practical | Tutorial | | | | | | | | | |
| 414441 | Information and Storage Retrieval | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 | | | | | | | | |
| 414442 | Software Project Management | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 | | | | | | | | |
| 414443 | Deep Learning | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 | | | | | | | | |
| 414444 | Elective III | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 | | | | | | | | |
| 414445 | Elective IV | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 | | | | | | | | |
| 414446 | Lab Practice III | - | 04 | - | - | - | 25 | - | 25 | 50 | - | 2 | - | 2 | | | | | | | | |
| 414447 | Lab Practice IV | - | 02 | - | - | - | 25 | 25 | - | 50 | - | 1 | - | 1 | | | | | | | | |
| 414448 | Project Stage-I | - | - | 02 | - | - | 50 | - | - | 50 | - | - | 2 | 2 | | | | | | | | |
| 414449 | Audit Course7 | | | | | | | | | | | | | | | | | | | | | |
| Total Credit | | | | | | | | | | 15 | 03 | 02 | 20 | | | | | | | | | |
| Total | 15 | 06 | 02 | 150 | 350 | 100 | 25 | 25 | 650 | 15 | 03 | 02 | 20 | | | | | | | | | |
| Elective III: | | | | | Elective IV: | | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • Mobile Computing • High Performance Computing • Multimedia Technology • Smart Computing | | | | | <ul style="list-style-type: none"> • Bioinformatics • Introduction to DevOps • Computer Vision • Wireless Communications | | | | | | | | | | | | | | | | | |
| Lab Practice-III: | | | | | Lab Practice-IV: | | | | | | | | | | | | | | | | | |
| It is based on subjects: | | | | | It is based on subjects: | | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • Information and Storage Retrieval | | | | | <ul style="list-style-type: none"> • Deep Learning | | | | | | | | | | | | | | | | | |
| Audit Courses 7: | | | | | | | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • 414449A: Copyrights and Patents • 414449B: Stress Management by Yoga • 414449C: English for Research Paper Writing | | | | | | | | | | | | | | | | | | | | | | |

BE IT Elective III & IV choice AY 2022-23 Semester-I

| Timestamp | Name of student | Class | Roll No | Email ID | Mobile No | Elective Subject-I choice | Elective Subject-II choice |
|--------------------|---------------------------------|---------|---------|---------------------------------|---------------|---------------------------|----------------------------|
| 8/1/2022 11:40:16 | Sakshi Ananta Nagare | BE-IT | 50 | sakshinagare416@gmail.com | 7620732248 | Mobile Computing | Wireless Communications |
| 8/1/2022 12:32:44 | Rutuja Babasaheb Kawade | BEIT | 34 | rutujabk44@gmail.com | 9689312378 | Multimedia Technology | Wireless Communications |
| 8/1/2022 13:07:25 | Shantanu Walunj | BEIT | 81 | shantanuwalunj478@gmail.com | 8411038640 | Mobile Computing | Bioinformatics |
| 8/1/2022 13:08:08 | Rushikesh Kekane | BE-IT | 35 | rushikeshkekane97@gmail.com | 7219080839 | Mobile Computing | Bioinformatics |
| 8/1/2022 13:19:18 | Rushikesh ratan kakad | BE - IT | 31 | rushikeshkakad32@gmail.com | 7517740939 | Mobile Computing | Bioinformatics |
| 8/1/2022 13:55:13 | Akshada Kiran jadhav | BE IT | 28 | akshadajadhavcv@gmail.com | 9970063756 | Mobile Computing | Wireless Communications |
| 8/1/2022 16:09:11 | Shelke Tejal Sharad | BE IT | 72 | tejushelke1@gmail.com | 8668781211 | Mobile Computing | Wireless Communications |
| 8/2/2022 16:23:04 | Amir Shaikh | BEIT | 70 | aashaikh0201@gmail.com | 07057701069 | Mobile Computing | Wireless Communications |
| 8/2/2022 16:26:13 | Rakesh Santosh More | BEIT | 50 | rakeshsmore2198@gmail.com | 7798073562 | Mobile Computing | Wireless Communications |
| 8/2/2022 16:42:25 | Altaf sultan shaikh | BEIT | 69 | altafshaikha2s@gmail.com | 9960242137 | Multimedia Technology | Wireless Communications |
| 8/2/2022 16:47:45 | Nishant Rajesh Pawar | BEIT | 54 | pawarnishantmail@gmail.com | 9373115274 | Multimedia Technology | Wireless Communications |
| 8/2/2022 21:17:57 | Naikwade Kajal Namdev | BEIT | 51 | naikwadekajal2015@gmail.com | 9112983275 | Mobile Computing | Bioinformatics |
| 8/2/2022 21:26:45 | Avhad Kavita Santosh | BE-IT | 03 | avhadkavita2001@gmail.com | 8080249749 | Mobile Computing | Wireless Communications |
| 8/3/2022 11:27:03 | Shibnath Nandi | BE-IT | 52 | shibnathnandi1621@gmail.com | 7385521224 | Mobile Computing | Bioinformatics |
| 8/3/2022 22:28:56 | Pooja santosh Bhadke | BE IT | 7 | poojabhadke222@gmail.com | 9307104833 | Mobile Computing | Wireless Communications |
| 8/3/2022 23:21:07 | Aniket Shrinath Malunjkar | BE IT | 46 | aniketmalunjkar2001@gmail.com | 8421656323 | Multimedia Technology | Bioinformatics |
| 8/4/2022 9:59:37 | Roshan Sawant | BE-IT | 68 | roshansawant071@gmail.com | 9067115734 | Multimedia Technology | Bioinformatics |
| 8/4/2022 10:07:25 | Abhijeet Bhausaheb Gadakh | BE-IT | 17 | abhijeetgadakh01@gmail.com | +918623900765 | Multimedia Technology | Bioinformatics |
| 8/4/2022 10:30:55 | Priya khakrode | BEIT | 38 | Priakhakrode@gmail.com | 8459784827 | Mobile Computing | Wireless Communications |
| 8/4/2022 11:45:17 | Snehal Shashikant Sonawane | BEIT | 76 | Snehalsonawane2420@gmail.com | 9822706544 | Multimedia Technology | Bioinformatics |
| 8/4/2022 12:24:18 | Devashri Tulshidas Patil | BE IT | 57 | devashripatil2001@gmail.com | 9359789276 | Multimedia Technology | Bioinformatics |
| 8/4/2022 13:41:31 | Avhad Pallavi Somnath | BEIT | 4 | Pallaviavhad0@gmail.com | 7820971330 | Multimedia Technology | Bioinformatics |
| 8/4/2022 15:06:25 | Ugale Sakshi Sunil | BE | 78 | sakshiguagle1405@gmail.com | 7719093314 | Multimedia Technology | Bioinformatics |
| 8/5/2022 9:27:09 | Shipranjali Gangurde | BEIT | 73 | shipranjaligangurde@gmail.com | 7709503723 | Multimedia Technology | Bioinformatics |
| 8/5/2022 15:05:11 | Piyush Tanaji Bhujbal | B.E.I.T | 74 | bhujbalpiyush@gmail.com | 9356089148 | Multimedia Technology | Bioinformatics |
| 8/5/2022 15:10:50 | Rutik Sunil Malave | BE-IT | 44 | rutikmalave14@gmail.com | 9857916007 | Multimedia Technology | Bioinformatics |
| 8/6/2022 10:56:37 | Ketan Ramanth Kawade | BE IT | 36 | ketankawade1@gmail.com | 8329099009 | Multimedia Technology | Bioinformatics |
| 8/7/2022 12:00:37 | Shreyas Ganesh Waghchaure | BE-IT | 80 | shreyaswaghchaure@gmail.com | 9423750364 | Multimedia Technology | Bioinformatics |
| 8/7/2022 12:03:06 | Chavan Krushna Vikas | BE | 12 | krushnachavan9545@gmail.com | 9545151536 | Multimedia Technology | Bioinformatics |
| 8/7/2022 12:07:01 | Ajinkya ravindra pawar | BE IT | 60 | pajinkya664@gmail.com | +917385790321 | Multimedia Technology | Bioinformatics |
| 8/7/2022 12:09:17 | Vrushali Khairnar | BEIT | 37 | vrushalik000@gmail.com | 7796245202 | Multimedia Technology | Bioinformatics |
| 8/10/2022 22:24:01 | Shruti avhad | BE-IT | 05 | shrutiavhad30@gmail.com | 9503355518 | Multimedia Technology | Bioinformatics |
| 8/11/2022 9:31:01 | Roshan Prakash Devkar | BE IT | 14 | roshandevkar40@gmail.com | 7385908783 | Multimedia Technology | Bioinformatics |
| 8/11/2022 15:33:07 | ADITYA KOKATE | BE IT | 41 | akokate00@gmail.com | 7028841903 | Multimedia Technology | Bioinformatics |
| 8/11/2022 22:52:31 | Ashwini Balu burkul | BE IT | 11 | ashwiniburkul2000@gmail.com | 7249738142 | Multimedia Technology | Bioinformatics |
| 8/12/2022 7:50:07 | Avhad Janhavi Navnath | BEIT | 02 | janhaviavhdi11@gmail.com | 7499737806 | Mobile Computing | Bioinformatics |
| 8/13/2022 14:37:16 | Shubham Santosh Nage | BE | 75 | shubhamnbage@gmail.com | 8805882363 | Mobile Computing | Bioinformatics |
| 8/13/2022 21:01:30 | Prasad Mali | BEIT | 45 | maliprasad26@gmail.com | 8605201250 | Multimedia Technology | Bioinformatics |
| 8/21/2022 10:00:43 | Dnyaneshwar Goraksh Mandlik | BE | 47 | dnyaneshwarmandlik01@gmail.com | 9156273751 | Multimedia Technology | Bioinformatics |
| 8/22/2022 9:18:26 | Ghodsare sagar | BE | 25 | Sagarghodsare21@gmail.com | 8600716726 | Multimedia Technology | Bioinformatics |
| 8/22/2022 10:49:50 | Viraj thorat | Be it | 77 | virajthorat90@gmail.com | 8975571992 | Multimedia Technology | Bioinformatics |
| 8/25/2022 21:47:49 | pragatikailasghayvate@gmail.com | BEIT | 24 | pragatikailasghayvate@gmail.com | 7038399839 | Multimedia Technology | Bioinformatics |

(Mr.R.S.Bhalerao)

Savitribai Phule Pune University
Final Year of Information Technology (2019Course)
(With effect from Academic Year2022-23)

Semester VIII

| Course Code | Course Name | Teaching Scheme (Hours/week) | | | Examination Scheme and Marks | | | | | | Credit Scheme | | | | |
|---|------------------------------|---------------------------------|-----------|----------|------------------------------|---------|---|-----------|------|--------------|---------------|-----------|----------|-------|----|
| | | Lecture | Practical | Tutorial | Mid-Sem | End-Sem | Teamwork | Practical | Oral | Total | Lecture | Practical | Tutorial | Total | |
| 414450 | Distributed Systems | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | | | 03 | |
| 414451 | Elective V | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | | | 03 | |
| 414452 | Elective VI | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | | | 03 | |
| 414453 | Startup and Entrepreneurship | - | - | 03 | - | - | 50 | - | - | 50 | - | - | 03 | 03 | |
| 414454 | Lab Practice V | - | 04 | - | - | - | 50 | 25 | - | 75 | 02 | | | 02 | |
| 414455 | Lab Practice VI | - | 02 | - | - | - | 25 | - | 50 | 75 | 01 | | | 01 | |
| 414456 | Project Stage II | - | 10 | - | - | - | 100 | - | 50 | 150 | 05 | | | 05 | |
| 414457 | AuditCourse8 | | | | | | | | | | | | | | |
| | | | | | | | | | | Total Credit | 09 | 08 | 03 | 20 | |
| | | Total | 09 | 16 | 03 | 90 | 210 | 225 | 50 | 75 | 650 | 09 | 08 | 03 | 20 |
| Elective V: <ul style="list-style-type: none"> • Software Defined Networks • Social Computing • Natural Language Processing • Soft Computing • Game Engineering | | | | | | | Elective VI: <ul style="list-style-type: none"> • Ethical Hacking and Security • Augmented and Virtual Reality • Business Analytics and Intelligence • Blockchain Technology | | | | | | | | |
| Lab Practice V: It is based on subjects: <ul style="list-style-type: none"> • Distributed Systems | | | | | | | Lab Practice VI: It is based on subjects: <ul style="list-style-type: none"> • Elective VI | | | | | | | | |
| Audit Courses 8: <ul style="list-style-type: none"> • 414457A: Functional Programming in Haskell • 414457B: Cyber Laws and Use of Social Media • 414457C: Constitution of India | | | | | | | | | | | | | | | |

BE IT Elective V & VI choice AY 2022-23 Semester-II

| Timestamp | Name of Student | Roll No | Elective-V Subject Choice | Elective-VI Subject Choice |
|--------------------|---------------------------------|----------------|----------------------------------|-----------------------------------|
| 1/10/2023 18:23:37 | Sakshi Ananta Nagare | 7 | Social Computing | Block Chain Technology |
| 1/10/2023 18:24:38 | Rutuja Babasaheb Kawade | 05 | Social Computing | Block Chain Technology |
| 1/10/2023 18:29:34 | Shantanu Walunj | 8 | Social Computing | Block Chain Technology |
| 1/10/2023 18:31:24 | Rushikesh Kekane | 24 | Social Computing | Block Chain Technology |
| 1/10/2023 18:37:41 | Rushikesh ratan kakad | 40 | Social Computing | Block Chain Technology |
| 1/10/2023 18:47:18 | Akshada Kiran jadhav | 44 | Social Computing | Block Chain Technology |
| 1/10/2023 19:00:52 | Shelke Tejal Sharad | 01 | Social Computing | Ethical Hacking & Security |
| 1/10/2023 19:04:20 | Amir Shaikh | 61 | Social Computing | Block Chain Technology |
| 1/10/2023 19:16:58 | Rakesh Santosh More | 10 | Game Engineering | Block Chain Technology |
| 1/10/2023 19:35:26 | Arif sultan shaikh | 02 | Social Computing | Block Chain Technology |
| 1/10/2023 20:32:11 | Nishant Rakesh Pawar | 47 | Social Computing | Block Chain Technology |
| 1/10/2023 21:14:14 | Naikwade Kajal Namdev | 55 | Social Computing | Block Chain Technology |
| 1/10/2023 21:21:51 | Avhad Kavita Santosh | 38 | Social Computing | Ethical Hacking & Security |
| 1/10/2023 21:23:51 | Shibnath Nandi | 9 | Social Computing | Block Chain Technology |
| 1/10/2023 21:32:29 | Pooja santosh Bhadke | 04 | Social Computing | Block Chain Technology |
| 1/10/2023 23:23:43 | Aniket Shivnath Malunjkar | 43 | Social Computing | Block Chain Technology |
| 1/11/2023 9:22:03 | Roshan Sawant | 41 | Social Computing | Block Chain Technology |
| 1/11/2023 9:24:48 | Abhijeet Bhausaheb Gadakh | 15 | Game Engineering | Block Chain Technology |
| 1/11/2023 9:29:14 | Priya khakode | 12 | Social Computing | Block Chain Technology |
| 1/11/2023 9:29:46 | Snehal Shashikant Sonawane | 28 | Social Computing | Block Chain Technology |
| 1/11/2023 9:33:34 | Devashin Tulshidas Patil | 60 | Social Computing | Block Chain Technology |
| 1/11/2023 9:36:05 | Avhad Pallavi Somnath | 14 | Social Computing | Ethical Hacking & Security |
| 1/11/2023 9:38:39 | Ugale Sakshi Sunil | 45 | Social Computing | Block Chain Technology |
| 1/11/2023 9:45:58 | Shipranjali Gangurde | 49 | Social Computing | Block Chain Technology |
| 1/11/2023 9:56:09 | Priyush Tanaji Bhujbal | 13 | Social Computing | Block Chain Technology |
| 1/11/2023 9:59:22 | Rutik Sunil Malave | 42 | Social Computing | Block Chain Technology |
| 1/11/2023 9:59:32 | Ketan Ramanth Kawade | 54 | Social Computing | Block Chain Technology |
| 1/11/2023 9:59:50 | Shreyas Ganesh Waghchaure | 51 | Social Computing | Block Chain Technology |
| 1/11/2023 10:00:15 | Chavan Krushna Vikas | 39 | Game Engineering | Ethical Hacking & Security |
| 1/11/2023 10:06:04 | Ajinkya ravindra pawar | 52 | Social Computing | Block Chain Technology |
| 1/11/2023 10:21:37 | Vrushali Khairnar | 36 | Social Computing | Block Chain Technology |
| 1/11/2023 10:21:49 | Shruti avhad | 59 | Social Computing | Block Chain Technology |
| 1/11/2023 10:22:40 | Roshan Prakash Devkar | 34 | Game Engineering | Block Chain Technology |
| 1/11/2023 10:29:00 | ADITYA KOKATE | 03 | Social Computing | Block Chain Technology |
| 1/11/2023 10:46:52 | Ashwini Balu burkul | 56 | Social Computing | Ethical Hacking & Security |
| 1/11/2023 11:07:16 | Avhad Janhavi Navnath | 50 | Social Computing | Block Chain Technology |
| 1/11/2023 11:35:01 | Shubham Santosh Nage | 62 | Social Computing | Block Chain Technology |
| 1/11/2023 11:39:47 | Prasad Mali | 30 | Social Computing | Block Chain Technology |
| 1/11/2023 11:46:26 | Dnyaneshwar Goraksh Mandlik | 31 | Social Computing | Block Chain Technology |
| 1/11/2023 12:59:06 | Ghodsare sagar | 53 | Social Computing | Block Chain Technology |
| 1/11/2023 13:14:39 | Viraj thorat | 16 | Social Computing | Block Chain Technology |
| 1/11/2023 13:51:18 | pragatikailasghayvate@gmail.com | 19 | Social Computing | Block Chain Technology |

(Mr. R.S. Bralerao)

H.O.D

Savitribai Phule Pune University
Board of Studies - Automobile and Mechanical Engineering
Undergraduate Program - Mechanical Engineering (2019 pattern)

| Course Code | Course Name | Teaching Scheme (Hrs./week) | | | Examination Scheme and Marks | | | | | Credit | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------------------|-----------|----------|------------------------------|------------|--------------------|-----------|-----------|------------|-----------|----------|----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | TH | PR | TUT | ISE | ESE | TW | PR | OR | Total | TH | PR | TUT | Total | | | | | | | | | | | | | | | | | | |
| Semester-V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 302041 | Numerical & Statistical Methods | 3 | - | 1 | 30 | 70 | 25 | - | - | 125 | 3 | - | 1 | 4 | | | | | | | | | | | | | | | | | | |
| 302042 | Heat & Mass Transfer | 3 | 2 | - | 30 | 70 | - | 50 | - | 150 | 3 | 1 | - | 4 | | | | | | | | | | | | | | | | | | |
| 302043 | Design of Machine Elements | 3 | 2 | - | 30 | 70 | - | - | 25 | 125 | 3 | 1 | - | 4 | | | | | | | | | | | | | | | | | | |
| 302044 | Mechatronics | 3 | 2 | - | 30 | 70 | - | - | 25 | 125 | 3 | 1 | - | 4 | | | | | | | | | | | | | | | | | | |
| 302045 | Elective I | 3 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 | | | | | | | | | | | | | | | | | | |
| 302046 | Digital Manufacturing Laboratory | - | 2 | - | - | - | 50 | - | - | 50 | - | 1 | - | 1 | | | | | | | | | | | | | | | | | | |
| 302047 | Skill Development | - | 2 | - | - | - | 25 | - | - | 25 | - | 1 | - | 1 | | | | | | | | | | | | | | | | | | |
| 302048 | Audit course - V ³ | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | |
| | Total | 15 | 10 | 1 | 150 | 350 | 100 | 50 | 50 | 700 | 15 | 5 | 1 | 21 | | | | | | | | | | | | | | | | | | |
| Semester-VI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 302049 | Artificial Intelligence & Machine Learning | 3 | 2 | - | 30 | 70 | - | - | 25 | 125 | 3 | 1 | - | 4 | | | | | | | | | | | | | | | | | | |
| 302050 | Computer Aided Engineering | 3 | 2 | - | 30 | 70 | - | 50 | - | 150 | 3 | 1 | - | 4 | | | | | | | | | | | | | | | | | | |
| 302051 | Design of Transmission Systems | 3 | 2 | - | 30 | 70 | - | - | 25 | 125 | 3 | 1 | - | 4 | | | | | | | | | | | | | | | | | | |
| 302052 | Elective II | 3 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 | | | | | | | | | | | | | | | | | | |
| 302053 | Measurement Laboratory | - | 2 | - | - | - | 50 | - | - | 50 | - | 1 | - | 1 | | | | | | | | | | | | | | | | | | |
| 302054 | Fluid Power & Control Laboratory | - | 2 | - | - | - | 50 | - | - | 50 | - | 1 | - | 1 | | | | | | | | | | | | | | | | | | |
| 302055 | Internship/Mini project * | - | 4 | - | - | - | 100 | - | - | 100 | - | 4 | - | 4 | | | | | | | | | | | | | | | | | | |
| 302056 | Audit course - VI ³ | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | |
| | Total | 12 | 14 | - | 120 | 280 | 200 | 50 | 50 | 700 | 12 | 9 | - | 21 | | | | | | | | | | | | | | | | | | |
| Elective-I | | | | | | | Elective-II | | | | | | | | | | | | | | | | | | | | | | | | | |
| 302045-A | Advanced Forming & Joining Processes | 302052-A | | | Composite Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 302045-B | Machining Science & Technology | 302052-B | | | Surface Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abbreviations: TH: Theory, PR: Practical, TUT: Tutorial, ISE: In-Semester Exam, ESE: End-Semester Exam, TW: Term Work, OR: Oral | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Interested students of TE (Automobile Engineering and Mechanical Engineering) can opt for any one of the audit course from the list of audit courses prescribed by BOS (Automobile and Mechanical Engineering) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Instructions: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Practical/Tutorial must be conducted in FOUR batches per division only. Minimum number of Experiments/Assignments in PR/Tutorial shall be carried out as mentioned in the syllabi of respective courses. Assessment of tutorial work has to be carried out similar to term-work. The Grade cum marks for Tutorial and Term-work shall be awarded on the basis of continuous evaluation. ³Audit course is mandatory but non-credit course. Examination has to be conducted at the end of Semesters for award of grade at institute level. Grade awarded for audit course shall not be calculated for grade point & CGPA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



2 | Page

Savitribai Phule Pune University
Board of Studies - Mechanical and Automobile Engineering
Undergraduate Program – Final Year Mechanical Engineering (2019 pattern)

| Course Code | Course Name | Teaching Scheme (Hrs./week) | | | Examination Scheme and Marks | | | | | Credit | | | | | | | | | | |
|----------------------|--|-----------------------------|---|-----|------------------------------|-----|--------------------|-----|----|--------|-----|----|-----|------|--|--|--|--|--|--|
| | | TH | PR | TUT | ISE | ESE | TW | PR | OR | TOTAL | TH | PR | TUT | | | | | | | |
| Semester-VII | | | | | | | | | | | | | | | | | | | | |
| 402041 | Heating Ventilation Air-Conditioning and Refrigeration | 3 | 2 | - | 30 | 70 | - | - | 25 | 125 | 3 | 1 | - | 4 | | | | | | |
| 402042 | Dynamics of Machinery | 3 | 2 | - | 30 | 70 | - | - | 25 | 125 | 3 | 1 | - | 4 | | | | | | |
| 402043 | Turbomachinery* | 2 | 2 | - | - | 50 | 25 | - | 25 | 100 | 2 | 1 | - | 3 | | | | | | |
| 402044 | Elective - III | 3 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 | | | | | | |
| 402045 | Elective - IV | 3 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 | | | | | | |
| 402046 | Data Analytics Laboratory | - | 2 | - | - | - | 50 | - | - | 50 | - | 1 | - | 1 | | | | | | |
| 402047 | Project (Stage - I) | - | 4 | - | - | - | 50 | - | 50 | 100 | - | 2 | - | 2 | | | | | | |
| 402054 | Audit Course VII ⁵ | - | - | - | - | - | - | - | - | - | - | - | NC | | | | | | | |
| | | Total | 14 | 12 | - | 120 | 330 | 125 | - | 125 | 700 | 14 | 6 | - 20 | | | | | | |
| Semester-VIII | | | | | | | | | | | | | | | | | | | | |
| 402048 | Computer Integrated Manufacturing | 3 | 2 | - | 30 | 70 | 25 | - | 25 | 150 | 3 | 1 | - | 4 | | | | | | |
| 402049 | Energy Engineering | 3 | 2 | - | 30 | 70 | 25 | - | 25 | 150 | 3 | 1 | - | 4 | | | | | | |
| 402050 | Elective - V | 3 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 | | | | | | |
| 402051 | Elective - VI | 3 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 | | | | | | |
| 402052 | Mechanical Systems Analysis Laboratory | - | 2 | - | - | - | 25 | - | 25 | 50 | - | 1 | - | 1 | | | | | | |
| 402053 | Project (Stage - II) | - | 10 | - | - | - | 100 | - | 50 | 150 | - | 5 | - | 5 | | | | | | |
| 402055 | Audit Course VIII ⁵ | - | - | - | - | - | - | - | - | - | - | - | NC | | | | | | | |
| | | Total | 12 | 16 | - | 120 | 280 | 175 | - | 125 | 700 | 12 | 8 | - 20 | | | | | | |
| Elective-III | | | | | | | Elective-V | | | | | | | | | | | | | |
| 402044A | Automobile Design | 402050A | Quality and Reliability Engineering | | | | | | | | | | | | | | | | | |
| 402044B | Design of Heat Transfer Equipments | 402050B | Energy Audit and Management | | | | | | | | | | | | | | | | | |
| 402044C | Modern Machining Processes | 402050C | Manufacturing Systems and Simulation | | | | | | | | | | | | | | | | | |
| 402044D | Industrial Engineering | 402050D | Engineering Economics and Financial Management | | | | | | | | | | | | | | | | | |
| 402044E | Internet of Things | 402050E | Organizational Informatics | | | | | | | | | | | | | | | | | |
| 402044F | Computational Fluid Dynamics | 402050F | Computational Multi Body Dynamics | | | | | | | | | | | | | | | | | |
| Elective-IV | | | | | | | Elective-VI | | | | | | | | | | | | | |
| 402045A | Product Design and Development | 402051A | Process Equipment Design | | | | | | | | | | | | | | | | | |
| 402045B | Experimental Methods in Thermal Engineering | 402051B | Renewable Energy Technologies | | | | | | | | | | | | | | | | | |
| 402045C | Additive Manufacturing | 402051C | Automation and Robotics | | | | | | | | | | | | | | | | | |
| 402045D | Operations Research | 402051D | Industrial Psychology and Organizational Behavior | | | | | | | | | | | | | | | | | |
| 402045E | Augmented Reality and Virtual Reality | 402051E | Electrical and Hybrid Vehicle | | | | | | | | | | | | | | | | | |

| Audit Courses | | | |
|---------------|---------------------|---------|-----------------------|
| 402054A | Yoga Practices | 402054B | Stress Management |
| 402055A | Managing Innovation | 402055B | Operations Management |

Abbreviations: TH: Theory, PR: Practical, TUT: Tutorial, ISE: In-Semester Exam, ESE: End-Semester Exam, TW: Term Work, OR: Oral

- Student can select any elective subjects from the list given as per his/her choice. However, it is advised to select the subjects from within a group identified for specialization.

Sir Visvesvaraya Institute of Technology, Nashik

Department of
Mechanical Engineering Elective Choice
from Students 2022-23 Sem. 1

Class - BE Mechanical

All the students of BE Mechanical Engineering are hereby informed that kindly give Elective choice for Academic Year 2022-23 Sem. I by tickmark(✓) in respective box.

Elective 402045A Product Design and Development

402045B Experimental Methods

in Thermal Engineering 402045C Additive Manufacturing

402045D Operations Research

402045E Augmented Reality and Virtual Reality

| Roll No. | Name of the Student | Elective IV | | | | | Sign. |
|----------|------------------------------|--------------------------------|---|------------------------|---------------------|---------------------------------------|---------------|
| | | Product Design and Development | Experimental Methods in Thermal Engineering | Additive Manufacturing | Operations Research | Augmented Reality and Virtual Reality | |
| 1 | Jadhav Siddharth Kiran | | | ✓ | | | <i>S.P.J</i> |
| 2 | Ighe Shubham Balu | | | ✓ | | | <i>S</i> |
| 3 | Darade Shailesh Shivaji | | | ✓ | | | <i>S</i> |
| 4 | Guddali Shrikant Jagannath | | | ✓ | | | <i>S. J</i> |
| 5 | Jagtap Siddharth Prakash | | | ✓ | | | <i>S. P</i> |
| 6 | Daware Tejas Madhukar | | | ✓ | | | <i>T.M</i> |
| 7 | Ilag Sumit Maruti | | | ✓ | | | <i>S.M. M</i> |
| 8 | Velkar Amol Raju | | | ✓ | | | <i>A.M.V</i> |
| 9 | Bodke Rushikesh Rajan | | | ✓ | | | <i>R.B.D</i> |
| 10 | Shinde Devdatt Sahebrao | | | ✓ | | | <i>D.S</i> |
| 11 | Gaikhe Akshay Rajendra | | | ✓ | | | <i>A.R.G</i> |
| 12 | Kumbhkarn Bhushan Sunil | | | ✓ | | | <i>S.K</i> |
| 13 | Deokar Tejas Nirvutti | | | ✓ | | | <i>T.D</i> |
| 14 | Kute Gaurav Ananda | | | ✓ | | | <i>A.K</i> |
| 15 | Dond Gaurav Nirvutti | | | ✓ | | | <i>G.D</i> |
| 16 | Galkwad Harshal Balu | | | ✓ | | | <i>H.G</i> |
| 17 | Sonawane Pravay Bhagawan | | | ✓ | | | <i>P.S</i> |
| 18 | Bhangare Rohan Devkisan | | | ✓ | | | <i>R.B</i> |
| 19 | Khairnar Ajit Annasaheb | | | ✓ | | | <i>A.K</i> |
| 20 | Miss. Sonawane Jayshri R. | | | ✓ | | | <i>J.S</i> |
| 21 | Miss. Sahane Tejal Uddhav | | | ✓ | | | <i>T.S</i> |
| 22 | Pawar Aniket Ramnath | | | ✓ | | | <i>A.P</i> |
| 23 | Jejurkar Audumbar Somnath | | | ✓ | | | <i>S.J</i> |
| 24 | Dhonnar Kiran Namdev | | | ✓ | | | <i>N.D</i> |
| 25 | Miss. Kathar Priyanka Sanjay | | | ✓ | | | <i>P.K</i> |
| 26 | Kahandekar Anil Rangnath | | | ✓ | | | <i>A.K</i> |
| 27 | Dhabale Yogesh Shantaram | | | ✓ | | | <i>Y.D</i> |
| 28 | Gandhake Mahesh Subhash | | | ✓ | | | <i>M.G</i> |

| | | | | | | | |
|----|-------------------------|--|--|---|--|--|-------------|
| 29 | SangaleSarthakDattatray | | | ✓ | | | S. |
| 30 | MaliRushikeshPandurang | | | ✓ | | | Rushikesh |
| 31 | NatheAkashDattatray | | | ✓ | | | A. D. Nathe |
| 32 | BhavsarChinmaySurendra | | | ✓ | | | Chinmay |
| 33 | GhadsareGokulSubhash | | | ✓ | | | Gokul |
| 34 | NavaleTejasAvinash | | | ✓ | | | Tejas |
| 35 | KasarSudarshanSopan | | | ✓ | | | Sudarshan |
| 36 | DaradeAkshayDattu | | | ✓ | | | Akshay |
| 37 | GhotekarAkshayAnil | | | ✓ | | | Anil |
| 38 | NakaweRupeshAvinash | | | ✓ | | | Rupesh |
| 39 | GadgeShubhamBalasaheb | | | ✓ | | | Gadge |
| 40 | NikamSaurabhSanjay | | | ✓ | | | Saurabh |
| 41 | SarafTejasSushil | | | ✓ | | | Sushil |
| 42 | Miss.BinnarShwetaDattu | | | ✓ | | | Binnar |
| 43 | PatiGauravVasudev | | | ✓ | | | Gaurav |
| 44 | SonawaneOmkeshGuilab | | | ✓ | | | Omkesh |
| 45 | PawarPrajwalSubhash | | | ✓ | | | Prajwal |
| 46 | ShindePranitSubhash | | | ✓ | | | Pranit |
| 47 | NirgudeShubhamShivaji | | | ✓ | | | Shivaji |
| 48 | BhadangeAmolLaxman | | | ✓ | | | Laxman |
| 49 | JadhavRahulNamdev | | | ✓ | | | Rahul |
| 50 | BhabadShubhamNamdev | | | ✓ | | | Shubham |
| 51 | LondheSiddheshRajendra | | | ✓ | | | Siddhesh |

Elective Subject Teacher
Prof. S. R. Chaudhari

HOD
Prof. V. L. Kadlag

H.O.D

DEPARTMENT OF MECHANICAL ENGG
SIR VISVESVARAYA INSTITUTE OF
TECHNOLOGY, CHINCHOLI,
NASIK - 422101

Sir Visvavarma Institute of Technology, Nasik

Department of Mechanical Engineering
Elective Choice from Students 2022-23 Sem. I

Class - BE Mechanical

All the students of BE Mechanical Engineering are hereby informed that kindly give Elective choice for Academic Year 2022-23 Sem. I by tick mark (✓) in respective box.

Elec 402044A Automobile Design 402044D Industrial Engineering

402044B Design of Heat Transfer Equipments 402044E Internet of Things

402044C Modern Machining Processes 402044F Computational Fluid Dynamics

| Roll No. | Name of the Student | Elective III | | | | | Sign. |
|----------|-----------------------------|-------------------|------------------------------------|----------------------------|------------------------|--------------------|-------|
| | | Automobile Design | Design of Heat Transfer Equipments | Modern Machining Processes | Industrial Engineering | Internet of Things | |
| 1 | Jadhav Siddharth Kiran | | | ✓ | | | |
| 2 | Ighe Shubham Balu | | | ✓ | | | |
| 3 | Darade Shailesh Shivaji | | | ✓ | | | |
| 4 | Guddalli Shrikant Jagannath | | | ✓ | | | |
| 5 | Jagtap Siddharth Prakash | | | ✓ | | | |
| 6 | Daware Tejas Madhukar | | | ✓ | | | |
| 7 | Ilag Sumit Maruti | | | ✓ | | | |
| 8 | Velkar Amol Raju | | | ✓ | | | |
| 9 | Bodke Rushikesh Rajan | | | ✓ | | | |
| 10 | Shinde Devdatt Sahebrao | | | ✓ | | | |
| 11 | Gaikhe Akshay Rajendra | | | ✓ | | | |
| 12 | Kumbhkarn Bhushan Sunil | | | ✓ | | | |
| 13 | Deokar Tejas Nirutti | | | ✓ | | | |
| 14 | Kute Gaurav Ananda | | | ✓ | | | |
| 15 | Dond Gaurav Nirutti | | | ✓ | | | |
| 16 | Gaikwad Harshal Balu | | | ✓ | | | |
| 17 | Sonawane Pravav B | | | ✓ | | | |
| 18 | Bhangare Rohan Devkisan | | | ✓ | | | |
| 19 | Khairnar Ajit Annasaheb | | | ✓ | | | |
| 20 | Miss.Sonawane Jayshri R | | | ✓ | | | |

~~Elective Subject Teacher~~

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HOD

HOD W.C. H.O.D
(Mr. V. L. Kadlag) DEPARTMENT OF MECHANICAL ENGG
SAYARAYA INSTITUTE OF TECHNOLOGY, CHINCHOLI