

NATIONAL INSTITUTE OF TECHNOLOGY GOA
Farmagudi, Ponda, Goa – 403 401

Phone No.: 0832-2404200, Fax No.: 2402202



MINUTES OF 19th MEETING OF THE SENATE

Date : 24th February 2023

Time : 1.00 P.M.

Venue : Conference Hall, NIT Goa (**Hybrid Mode**)

NATIONAL INSTITUTE OF TECHNOLOGY GOA

19th Senate Meeting, 24th February 2023

Minutes

Proceedings of the 19th meeting of the Senate of NIT Goa held on 24th Februaty 2023 at 1:00 PM in Conference Hall, National Institute of Technology Goa. The meeting was held in hybrid mode.

Senate Members

1	Prof. Anupam Shukla	Director, NIT Goa	Chairman Senate
2	Prof. N. C. Shivaprakash	Department of Instrumentation, Indian Institute of Sciences, Bengaluru	External Member
3	Prof. Vijay H. Desai	Department of Mechanical Engineering, NIT Karnataka, Surathkal	External Member
4	Dr. Geetha B	Department of Humanities and Social Sciences, BITS Pilani, K.K. Birla Goa Campus	External Member
5	Dr. Shashidhar K. Kudari	Registrar	Member & Secretary
6	Dr. T. Veerakumar	Dean (Academics)	Member
7	Dr. Purushothama B R	HoD, CSE	Member
8	Dr. Soumitra Das	HoD, EEE	Member
9	Dr. Prashanth G R	HoD, ECE	Member
10	Dr. Sarani Ghosal M.	HoD, HSS & APS	Member
11	Dr. B. Santhi	HoD, MCE	Member
12	Dr. Harikumar M	HoD, CVE	Member

The senate meeting started with a welcome address by the Member Secretary. The Member Secretary welcomed Prof. Anupam Shukla, the Director and Chairman of the Senate. Further, the Member Secretary also thanked the Former Director, Prof. Gopal Mugeraya, for his contributions and support during his period of directorship. All senate members also welcomed Prof. Anupam Shukla, the Director NIT Goa and appreciated the contributions of Prof. Gopal Mugeraya, Former Director, NIT Goa.

[Signature]

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19th Senate Meeting, 24th February 2023

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A. To confirm the minutes of the 18th meeting of the Senate held on 07/09/2022

Minutes of the 18th meeting of the Senate of NIT Goa held on 07/09/2022 were circulated. Minutes may please be seen in the ANNEXURE - I.

The Senate is requested to ratify the finalized minutes.

Resolution of the Senate:

The Senate ratified the minutes of the 18th Senate meeting held on 07/09/2022.

B. Action taken report on the resolutions taken in the last meeting of the Senate

RESOLUTION					ACTION TAKEN
18.1 To consider and approve the list of students of 2015-19 batch of B.Tech. for the award of degree in the 8th Convocation					B.Tech. degree was awarded in the 8 th convocation held on 30/09/2022 for the one student whose name was recommended by the Senate and approved by Board
One student from 2015-2019 batch of B.Tech. is proposed for the award of B.Tech. degree in the 8th convocation who has completed all the requirements towards the award of degree. The detail of the student is given in ANNEXURE - II (Page No. 14)					
Name of the Department	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	1	0	0	1	1
EEE	0	0	0	0	0
ECE	0	0	0	0	0
TOTAL	1	0	0	1	1
Resolution of the Senate:					
The Senate recommended the proposed name to the board for the award of the B.Tech. degree.					
18.2 To consider and approve the list of students of 2017-21 batch of B.Tech. for the award of degree in the 8th convocation.					B.Tech. degree was awarded in the 8 th

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Four students from 2017-21 batch of B.Tech. are proposed for the award of B.Tech. degree in the 8th convocation who have completed all the requirements towards the award of degree. The list of students proposed for the award of B.Tech. degree is given in ANNEXURE-II (Page No. 14-15)

Name of the Department	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	2	0	1	1	2
EEE	2	0	2	0	2
ECE	0	0	0	0	0
TOTAL	4	0	3	1	4

Resolution of the Senate:

The Senate recommended the proposed names to the board for the award of the B.Tech. degree.

18.3 To consider and approve the list of students of 2018-22 batch of B.Tech. for the award of degree in the 8th convocation.

Total 130 students from 2018-22 batch of B.Tech. are proposed for the award of B.Tech. degree in the 8th convocation who have completed all the requirements towards the award of degree. The list of students proposed for the award of B.Tech. degree is given in ANNEXURE - II (Page No. 15-22).

Name of the Department	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CVE	25	6	18	1	25
CSE	29	15	14	0	29
EEE	24	6	18	0	24
ECE	29	10	19	0	29
MCE	23	9	14	0	23
TOTAL	130	46	83	1	130

Resolution of the Senate:

The Senate recommended the proposed names to the board for the award of the B.Tech. degree.

convocation held on 30/09/2022 for the 4 students whose names were recommended by the Senate and approved by Board

B.Tech. degree was awarded in the 8th convocation held on 30/09/2022 for the 130 students whose names were recommended by the Senate and approved by Board

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18.4 To consider and approve the names of medal recipients of 2018-22 batch of B.Tech. who will be honored in 8th convocation

There will be one Gold medal called Director's Medal for academic topper of the Institute. There will be five Gold medals for the toppers in each department. The proposed names and details of the recipients are given in the following table.

Sl. No.	Medal Name	Dept.	Reg. No.	Student Name	CGPA
1	Director's Gold Medal	EEE	18EEE1029	VISHAL KEVAT	9.72
2	Gold Medal	CVE	18CVE1019	SANAT ALIAS RAM KRISHNA SHETYE	9.16
3	Gold Medal	CSE	18CSE1033	DIVYANI	9.53
4	Gold Medal	EEE	18EEE1029	VISHAL KEVAT	9.72
5	Gold Medal	ECE	18ECE1012	KASHIN BRIJ KHAJURIA	9.44
6	Gold Medal	MCE	18MCE1008	GONSALVES AARON HERCULANO	9.26

Resolution of the Senate:

The Senate recommended the proposed names to the Board for the award of the medals of the Institute and congratulated them on their achievement.

18.5 To consider and approve the list of candidates of 2020-22 batch of M.Tech. to be awarded with degree in the 8th Convocation

Total 57 students from 2020-22 batch of M.Tech. are proposed for the award of M.Tech. degree in the 8th convocation who have completed all the requirements towards the award of degree. The list of students proposed for the award of M.Tech. degree is given in ANNEXURE III (Page No. 23-26)

Specialization	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	16	7	9	0	16
PEPS	19	7	12	0	19
VLSI	22	5	17	0	22
TOTAL	57	19	38	0	57

Resolution of the Senate:

The Senate recommended the proposed names to the Board for the

Medals were awarded in the 8th convocation held on 30/09/2022 to the respective students whose names were recommended by the Senate and approved by Board

M.Tech. degree was awarded in the 8th convocation held on 30/09/2023 for the 57 students whose names were recommended by the Senate and approved by Board

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award of the M.Tech. degree.

18.6 To consider and approve the names of medal recipients of 2020-22 batch of M.Tech. who will be honored in 8th convocation

There will be one Gold medal called Director's Medal for academic topper of the Institute. There will be three Gold medals for the toppers in each department. The proposed names and details of the recipients are given in the following table.

Sl. No.	Medal Name	Dept.	Reg. No.	Student Name	CGPA
1	Director's Gold Medal	CSE	20CSE2002	ADITYA KULKARNI	9.86
2	Gold Medal	CSE	20CSE2002	ADITYA KULKARNI	9.86
3	Gold Medal	EEE (PEPS)	20EEE2011	KUNAL VADGAMA	8.95
4	Gold Medal	ECE (VLSI)	20ECE2021	SRUJANA KRISHNAMURTHY PILLAY	9.61

Resolution of the Senate:

The Senate recommended the proposed names to the Board for the award of the medals of the Institute and congratulated them on their achievement.

18.7 To consider and approve the list of candidates to be conferred with the Ph.D. degree of the Institute

Ten students are proposed for the award of Ph.D. degree in the 8th convocation who have completed all the requirements towards the award of degree. The details of the students are given in ANNEXURE- IV (Page No. 27)

Department	No. of students eligible for the award of degree
APS	3
CSE	2
ECE	2
EEE	3
Total	10

Resolution of the Senate

Senate recommended the proposed students to the Board for the

Medals were awarded in the 8th convocation held on 30/09/2022 to the respective students whose names were recommended by the Senate and approved by Board

Ph.D. degree was awarded in the 8th convocation held on 30/09/2022 for the 10 students whose names were recommended by the Senate and approved by Board

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award of the Ph.D. degree of the Institute.	
<p>18.8 To authorize the Senate Chairman to approve the name of Ph.D. graduands who will fulfill the requirement for the award of degree between 07/09/2022 and date of 8th convocation.</p> <p>Few of the Ph.D. students have submitted the thesis and awaiting the evaluation report from the experts and thesis defence. Some reports may be received between 07/09/2022 and the date of convocation. Hence, it is proposed to authorize the Senate Chairman to approve the name of those graduands to be considered for the award of Ph.D. degree in the 8th convocation, upon completion of all the academic requirements.</p> <p><u>Resolution of the Senate:</u></p> <p>The Senate authorized the Senate Chairman to approve the Ph.D. students who will fulfill the requirement for the award of Ph.D. degree between 07/09/2022 and 28.09.2022.</p>	<p>There were 07 PhD students defended their thesis and fulfilled the requirement for the award of PhD degree between 07/09/2022 and 28/09/2022. The PhD degree was awarded in the 8th convocation held on 30/09/2022 for the 07 students whose names were recommended by Senate Chairman.</p>
<p>18.9 Additional items, if any, with permission of the Chairman, Senate</p> <p>18.9.1 Selection of Senate Nominees to the BoG</p> <p>The tenure of senate nominee to the BoG, Dr. Velavan Kathirvelu and Dr. Damodar Reddy Edla were completed. Hence the Senate members are requested to nominate the new members to represent the Senate in the Board.</p> <p>Resolution of the Senate:</p> <p>The Senate appreciated the contribution of the Dr. Velavan Kathirvelu and Dr. Damodar Reddy Edla as the BoG members. Based on the opinion of Senate members, the Chairman Senate nominates the following faculty members as the nominee of Senate to the BoG of NIT Goa.</p> <p>1. Dr. Suresh Mikkili, Associate Professor, Department of EEE</p> <p>2. Dr. Lalat Indu Giri, Assistant Professor, Department of ECE</p>	<p>Orders have been issued to the faculty members nominated by the Senate, and they have taken charge as the BoG members.</p>

The Senate Members congratulated all the faculty and staff for the smooth conduction of 8th convocation and appreciated the actions taken on the resolutions of the last meeting.

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AGENDA NOTES

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19.1 To consider and approve the policies for the withdrawal of admission of B.Tech./M.Tech./Ph.D. students and refund of fee

The rules for withdrawal of admission from B.Tech./M.Tech./Ph.D. program and refund of fee is proposed, and the detail of the proposal is given in Annexure – 19.I

Senate may approve this proposal.

Resolution of the Senate:

The Senate recommended the policy for admission withdrawal and fee refund.

19.2 To consider and approve the Leave rules for M.Tech. and Ph.D. students.

The leave rules for M.Tech. and Ph.D. students are proposed, and the detail of the proposal is given in Annexure-19.II.

Senate may approve this approval.

Resolution of the Senate:

The Senate recommended the leave rules for M.Tech. and Ph.D. students.

19.3 To consider and approve the one time attendance relaxation to appear minor, mid and end semester examinations for the students having backlogs.

Some of the students have backlogs in the lower semester. As per the academic rules and regulation, clause B8.2, the students are eligible to register for backlog courses along with the following semester courses. However, it is unable to prepare the time slots for the students to attend the backlog courses due to the limited facilities in the institute. Hence, the clause B12 of academic rules and regulation can be relaxed for backlog subjects, and the students may be permitted to appear for the minor, mid and end semester examinations with the approval of the Director.

Senate may approve this proposal.

Resolution of the Senate:

The Senate recommended and approved the proposal.

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19.4 To consider and approve the policy for the conversion of full time Ph.D. program to part time Ph.D. program and conversion from JRF/Project fellowship to Institute fellowship for Ph.D. students

The policy for the Ph.D. students conversion from Full-time scheme to Part-time scheme and conversion of JRF/Project fellowship to Institute Fellowship are proposed and the detail of this proposal is given in the Annexure-19.III.

Senate may approve this approval.

Resolution of the Senate:

The Senate recommended the proposal with the following changes: "The student may be allowed to convert his/her Ph.D. registration from a full-time to a part-time scheme after the completion of comprehensive examination with substantial research output."

19.5 To consider and approve the comprehensive examination for part time Ph.D. students will be conducted within a maximum of 3 years

Present Rule: P7.3 Candidate will have to appear for a Comprehensive Examination, within two years of registration of Ph.D., based on the courses approved by DRC. He/she will have to demonstrate satisfactory progress/performance in written examination or course viva-voce and must fulfill the departmental norms in force for evaluation of course works from time to time.

Revised Rule: Candidate will have to appear for a Comprehensive Examination, within 2 years of registration of Full-time Ph.D. program and within 3 years of registration of Part-time Ph.D. program, based on the courses approved by DRC. He/she will have to demonstrate satisfactory progress/performance in written examination or course viva-voce and must fulfill the departmental norms in force for evaluation of course works from time to time.

Senate may approve this proposal.

Resolution of the Senate:

The Senate approved the proposal.

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19.6 To consider and approve the revised charges for obtaining the various documents from NIT Goa by the student.

The revised charges for obtaining the various documents from NIT Goa by the student are proposed and attached in Annexure – 19.IV.

Senate may approve this proposal.

Resolution of the Senate:

The Senate approved the proposal.

19.7 To consider and approve the provision for adoption of MOOCs course into the existing curriculum

The MOOCs course may be considered as an Elective subject, and a maximum of TWO courses may be allowed to register for the students during the entire program. The following format may be followed and included in the B.Tech. Curriculum:

(Course Code)- NPTEL – (Course Name) – (Total Credit)

For example:

ECM01-NPTEL - Modern Digital Communication Techniques – (3)

CSM01- NPTEL - Modern Computer Vision – (3)

Course Code	Course Name	Total Credit
CVM01	NPTEL - Environmental Remediation of Contaminated Sites	3
CVM02	NPTEL - Earthquake Resistant Design of Foundations	3
CVM03	NPTEL - Advanced Foundation Engineering	3
CVM04	NPTEL - Advanced Soil Mechanics	3
CVM05	NPTEL - Traffic Engineering	3
CVM06	NPTEL - Scheduling Techniques in Projects	3
CVM07	NPTEL - Earthquake Resistant Design of Foundations	3
CVM08	NPTEL - Advanced Foundation Engineering	3
CVM09	NPTEL - Strategies for Sustainable Design	3
CVM10	NPTEL - Finite Element Method	3
CVM11	NPTEL - Safety in Construction	3

Also, the Senate is requested to authorize the Director to approve the inclusion of MOOC courses from time to time as per the departmental request.

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Senate may approve this proposal.

Resolution of the Senate:

The Senate approved the proposal and authorized the Chairperson of Senate to approve the inclusion of MOOC courses from time to time as per the departmental request.

19.8 To consider and approve the inclusion of elective courses to the existing PG curriculum

Two elective courses were prepared by the faculty of Department of CSE to offer for PG students. The courses were reviewed and recommended by the experts from the reputed institutes, which is given in the **Annexure 19.V**. It is proposed to the Senate to accord the permission to include following two courses in the elective list of PG curriculum.

Sl. No.	Course code	Course Name	Credit (L-T-P)
1.	CS837	Performance Evaluation of Computer Systems (PECS)	3 (3-0-0)
2.	CS838	Software Defined Networking (SDN)	3 (3-0-0)

Senate is requested to approve the proposal.

Resolution of the Senate:

The Senate approved to include the two new courses in the existing PG curriculum of Department of CSE.

19.9 To ratify the regulation for UG Students Internship

The final year B.Tech. students joining internships through T&P cell in various companies as a part of their placement in offline mode may be permitted to join the respective companies in the 8th semester. The courses for such students in the 8th semester may be registered online and classes can be conducted online/self study mode. However, the examination should be taken in physical mode at NIT Goa.

Senate is requested to ratify this proposal.

Resolution of the Senate:

The Senate ratified the proposal

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19.10 To ratify the creation of vacancies in M.Tech. Programme for DRDO sponsored candidates at NIT Goa

DRDO has requested vide Ref. no DHRD/70642/PG/Plg-23/C/M/01 dated 28/11/2022, to create vacancies in M.E./M.Tech. programs for DRDO sponsored candidates at NIT Goa from Academic Year 2022-23 onwards. Based on the request, NIT Goa proposes to create two vacancies in the following PG Programmes in addition to the existing vacancies. Details such as minimum qualification, reservation, fee structure and other are elaborated in Annexure 19.VI.

Sl. No.	M.Tech. Program Name	No. of new vacancies created	Total No of Vacancies
1	Computer Sciences and Engineering	02	
2	Power Electronics and Power System	02	
3	VSLI	02	68 + 06

Senate is requested to ratify this proposal.

Resolution of the Senate:

The Senate ratified the proposal.

19.11 Additional items, if any, with permission of the Chairman, Senate

19.11.1 To consider and approve the Items to be claimed from the “Annual Contingency Grant/Support” by the Full-time Ph.D. Scholar.

Following items may be booked under “Annual Contingency Grant/Support” meant for a full-time PhD candidate-

I. Registration fee for attending Symposia/Seminars/Conferences in India/abroad provided the Ph.D. candidate is presenting a paper that has been accepted.

II. Books/Documents of relevance to the research topic

III. Equipment/software exclusively for research

IV. Reprint 1 Off-Prints of research papers, reports etc.

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V. Consumables, Chemical/Electronic components for research work [Except: General Stationary, Computer Peripherals, Electronic Appliances, Furniture, Textile Products, and Medical Products]

The unspent balance in a particular year under "Annual Contingency Grant/Support" for each full time Ph.D. candidate may be carried forward by an institute to the next year, till the time the Ph.D. candidate is supported under the scheme at the institute. At the end of the 5 years or completion of the Ph.D. of the candidate whichever is earlier the unspent balance would be returned to the Institute (if any).

Senate is requested to approve the proposal.

Resolution of the Senate:

The Senate approved the proposal.

NATIONAL INSTITUTE OF TECHNOLOGY GOA
Farmagudi, Ponda, Goa – 403 401

Phone No.: 0832-2404200, Fax No.: 2402202



MINUTES OF 18th MEETING OF THE SENATE

Date : 07th September 2022

Time : 3:30 P.M.

Venue : Conference Hall, NIT Goa (Hybrid Mode)

NATIONAL INSTITUTE OF TECHNOLOGY GOA

18th Senate Meeting, 07th September 2022

Minutes

Proceedings of the 18th meeting of the SENATE of NIT Goa held on 07th September 2022 at 3:30 PM in Conference Hall, National Institute of Technology Goa. The meeting was held in hybrid mode.

Senate Members

1	Prof. Gopal Mugeraya	Director, NIT Goa	Chairman Senate
2	Prof. N. C. Shivaprakash	Department of Instrumentation, Indian Institute of Sciences, Bengaluru	External Member
3	Prof. Vijay H. Desai	Department of Mechanical Engineering, NIT Karnataka, Surathkal	External Member
4	Dr. Geetha B	Department of Humanities and Social Sciences, BITS Pilani, K.K. Birla Goa Campus	External Member
5	Dr. Shashidhar K. Kudari	Registrar	Member & Secretary
6	Dr. T. Veerakumar	Dean (Academics)	Member
7	Dr. Damodar Reddy	Dean (Student Welfare)	Member
8	Dr. C.Vyjayanthi	Dean (Faculty Welfare)	Member
9	Dr. P. Saidi Reddy	Dean (Research & Consultancy)	Member
10	Dr. Vasantha M.H.	Dean (Planning and Development)	Member
11	Dr. Trilochan Panigrahi	Dean (Institutional Relations & Alumni affairs)	Member
12	Dr. Purushothama B R	HoD, CSE	Member
13	Dr. Soumitra Das	HoD, EEE	Member
14	Dr. Prashanth G R	HoD, ECE	Member
15	Dr. Sarani Ghosal M.	HoD, HSS & APS	Member
16	Dr. B. Santhi	HoD, MCE	Member
17	Dr. Harikumar M	HoD, CVE	Member
18	Dr. S. Mini	Associate Dean (Academics)	Special Invitee

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The Director and Senate Chairman welcomed all the Senate Members.

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18.2	To consider and approve the list of students of 2017-21 batch of B.Tech. for the award of degree in the 8 th Convocation	10
18.3	To consider and approve the list of students of 2018-22 batch of B.Tech. for the award of degree in the 8 th Convocation	11
18.4	To consider and approve the names of medal recipients of 2018-22 batch of B.Tech. who will be honored in 8 th Convocation	11
18.5	To consider and approve the list of candidates of 2020-22 batch of M.Tech. for the award of degree in the 8 th Convocation	12
18.6	To consider and approve the names of medal recipients of 2020-22 batch of M. Tech. who will be honored in 8 th Convocation	12
18.7	To consider and approve the list of candidates to be conferred with the Ph.D. degree of the Institute in 8 th Convocation	13
18.8	To authorize the Senate Chairman to approve the name of Ph.D. graduands who will fulfill the requirement for the award of degree between 07/09/2022 and date of 8 th convocation.	13
18.9	Additional items, if any, with permission of the Chairman, Senate	13

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18th Senate Meeting, 07th September 2022

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A. To confirm the minutes of the 17th meeting of senate held on 28/10/2021

Minutes of 17th meeting of the Senate of NIT Goa held on 28/10/2021 were circulated.
Minutes may please be seen in the ANNEXURE- I.

The senate is requested to ratify the finalized minutes.

Resolution of the Senate:

The Senate ratified the minutes of the meeting held on 28/10/2021.

B. Action taken report on the resolutions taken in the last meeting of the senate

RESOLUTION						ACTION TAKEN
17.1 To consider and approve the list of students of 2015-19 batch of B.Tech. for the award of degree in the 7th Convocation						
One student from 2015-2019 batch of B.Tech. is proposed for the award of B.Tech. degree in the 7 th convocation who has completed all the requirements towards the award of degree. The detail of the student is given in ANNEXURE - II (Page No. 18)						
Name of the Department	No. of students appeared for the final examination	No. of students eligible for the award of degree				
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students	
ECE	1	0	0	1	0	
TOTAL	1	0	0	1	1	
Resolution of the Senate:						
<i>Senate recommended to the board for the award of the B.Tech degree to the proposed student.</i>						
17.2 To consider and approve the list of students of 2016-20 batch of B.Tech. for the award of degree in the 7th convocation.						B.Tech. degree was awarded in the 7 th convocation held
Five students from 2016-20 batch of B.Tech. are proposed for the award of						

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B.Tech. degree in the 7th convocation who have completed all the requirements towards the award of degree. The list of students proposed for the award of B.Tech. degree is given in ANNEXURE-II (Page No. 19-20)

Name of the Department	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	1	0	0	1	1
EEE	1	0	1	0	1
ECE	3	0	1	2	3
TOTAL	5	0	2	3	5

on 23/12/2021 for the 5 students whose names were recommended by the senate and approved by Board

Resolution of the Senate:

The senate recommended the proposed names to the Board for the award of the B.Tech. degree.

17.3 To consider and approve the list of students of 2017-21 batch of B.Tech. for the award of degree in the 7th convocation.

Total 76 students from 2017-21 batch of B.Tech. are proposed for the award of B.Tech. degree in the 7th convocation who have completed all the requirements towards the award of degree. The list of students proposed for the award of B.Tech. degree is given in ANNEXURE - II (Page No. 20-24).

Name of the Department	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	27	10	17	0	27
EEE	23	6	17	0	23
ECE	26	9	16	1	26
TOTAL	76	25	50	1	76

B.Tech. degree was awarded in the 7th convocation held on 23/12/2021 for the 76 students whose names were recommended by the senate and approved by Board

Resolution of the Senate:

The senate recommended the proposed names to the Board for the award of the B.Tech. degree.

17.4 To consider and approve the names of medal recipients of 2017-21 batch of B.Tech. who will be honored in 7th convocation

Medals were awarded in the

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There will be one Gold medal called Director's Medal for academic topper of the Institute. There will be three Gold medals for the toppers in each department. The proposed names and details of the recipients are given in the following table.

Sl. No.	Medal Name	Dept.	Reg. No.	Student Name	CGPA
1	Director's Gold Medal	ECE	17ECE1003	C AJAY KUMAR	9.83
2	Gold Medal	CSE	17CSE1029	ARCHIT	9.61
3	Gold Medal	EEE	17EEE1002	AKASH SRIVASTAVA	9.38
4	Gold Medal	ECE	17ECE1003	C AJAY KUMAR	9.83

7th convocation held on 23/12/2021 to the respective students whose names were recommended by the senate and approved by Board

Resolution of the Senate:

The senate recommended the proposed names to the Board for the award of the medals of the Institute and congratulated them on their achievement.

17.5 To consider and approve the list of candidates of 2019-21 batch of M.Tech. to be awarded with degree in the 7th Convocation

Total 45 students from 2019-21 batch of M.Tech. are proposed for the award of M.Tech. degree in the 7th convocation who have completed all the requirements towards the award of degree. The list of students proposed for the award of M.Tech. degree is given in ANNEXURE III (Page No. 25-28)

Specialization	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	15	7	8	0	15
PEPS	13	6	7	0	13
VLSI	17	5	12	0	17
TOTAL	45	18	27	0	45

M.Tech. degree was awarded in the 7th convocation held on 23/12/2021 for the 45 students whose names were recommended by the senate and approved by Board

Resolution of the Senate:

The senate recommended the proposed names to the Board for the award of the M.Tech. degree.

17.6 To consider and approve the names of medal recipients of 2019-21 batch of M.Tech. who will be honored in 7th convocation

There will be one Gold medal called Director's Medal for academic

Medals were awarded in the 7th convocation held on

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topper of the Institute. There will be three Gold medals for the toppers in each department. The proposed names and details of the recipients are given in the following table.

Sl. No.	Medal Name	Dept.	Reg. No.	Student Name	CGPA
1	Director's Gold Medal	CSE	19CSE2014	SUBARNA DHAR	9.47
2	Gold Medal	CSE	19CSE2014	SUBARNA DHAR	9.47
3	Gold Medal	EEE (PEPS)	19EEE2001	ABIN ROBINSON	9.31
4	Gold Medal	ECE (VLSI)	19ECE2015	RATHOD BALAJI SAHEBRAO	9.00

23/12/2021 to the respective students whose names were recommended by the senate and approved by Board

Resolution of the Senate:

The senate recommended the proposed names to the Board for the award of the medals of the Institute and congratulated them on their achievement.

17.7 To consider and approve the list of candidates to be conferred with the Ph.D. degree of the Institute

Six students are proposed for the award of Ph.D. degree in the 7th convocation who have completed all the requirements towards the award of degree. The details of the students are given in ANNEXURE- IV (Page No. 29)

Department	No. of students eligible for the award of degree
APS	2
HSS	1
ECE	2
EEE	1
Total	6

Ph.D. degree was awarded in the 7th convocation held on 23/12/2021 for the 6 students whose names were recommended by the senate and approved by Board

Resolution of the Senate

Senate recommended the proposed students to the Board for the award of the Ph.D. degree of the Institute.

17.8 To authorize the Senate Chairman to approve the name of Ph.D. graduands who will fulfill the requirement for the award of degree between 28/10/2021 and date of 7th convocation.

10 Ph.D. students were defended their thesis and

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<p>A few of the Ph.D. students have already submitted the thesis and awaiting for the evaluation report from the experts and thesis defence. Some reports may be received between 28/10/2021 and the date of convocation. Hence, it is proposed to authorize the Senate Chairman to approve the name of these graduands to be considered for the award of Ph.D. degree in 7th convocation, upon completion of all the academic requirements.</p> <p><u>Resolution of the Senate:</u></p> <p>The senate authorized the Senate Chairman to approve the Ph.D. students who will fulfill the requirement for the award of Ph.D. degree between 28/10/2021 and the date of 7th convocation.</p>	<p>fulfilled the requirement for the award of PhD degree between 28/10/2021 and 23/12/2021. The Ph.D. degree was awarded in the 7th convocation held on 23/12/2021 for the 10 students whose names were recommended by Senate Chairman.</p>
<p>17.9 To ratify the admission process of Ph.D. programme under ICCR fellowship scheme</p> <p>The Indian Council for Cultural Relations (ICCR) was founded in 1950 by Maulana Abul Kalam Azad, independent India's first Education Minister. Its objectives are to actively participate in the formulation and implementation of policies and programmes pertaining to India's external cultural relations; to foster and strengthen cultural relations and mutual understanding between India and other countries; to promote cultural exchanges with other countries and people, and to develop relations with nations.</p> <p>The monthly scholarship and other expenses like tuition fee and accommodation fee of the students will be borne by the Govt. of India. With this we have admitted two Ph.D. students in this academic year 2021-2022.</p> <p>The senate is requested to ratify the admission process of Ph.D. programme under ICCR Scholarship.</p> <p><u>Resolution of the Senate</u></p> <p>The senate ratified the admission process of Ph.D. programme under ICCR Scholarship. Due to Covid pandemic the provisionally selected candidates may be given a grace period for the admission. This may be ratified in the next meeting.</p>	<p>Two Ph.D. students were admitted under ICCR Scholarship based on the ratification of the senate and Board.</p>

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17.10 To consider and approve the conduction of the academic audit for the departments of CSE, ECE, EEE, APS, and HSS, for the period from AY 2016-17 to AY 2020-21.

It is proposed to conduct an academic audit for the departments of CSE, ECE, EEE, APS, and HSS from AY 2016-17 to AY 2020-21. The objective of academic audit is to identify the issues that are to be addressed to improve the quality of Teaching, Learning and Research process. This will be taken up by the high level committee consisting of academicians from reputed Institutions.

The senate is requested to approve the above proposal for the betterment of our institute.

Resolution of the Senate:

The senate approved the proposal and appreciated the idea of academic audit.

The Expert committee has visited the institute and educated the faculty members for preparation of the documents for academic audit. The final audit will be conducted soon.

The Senate appreciated the actions taken on the resolutions of the last meeting.

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AGENDA NOTES

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18.1 To consider and approve the list of students of 2015-19 batch of B.Tech. for the award of degree in the 8th Convocation

One student from 2015-2019 batch of B.Tech. is proposed for the award of B.Tech. degree in the 8th convocation who has completed all the requirements towards the award of degree. The detail of the student is given in ANNEXURE - II (Page No. 14)

Name of the Department	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	1	0	0	1	1
TOTAL	1	0	0	1	1

Senate may approve the proposed name for the award of the B.Tech. degree.

Resolution of the Senate:

The Senate recommended the proposed name to the board for the award of the B.Tech. degree.

18.2 To consider and approve the list of students of 2017-21 batch of B.Tech. for the award of degree in the 8th convocation.

Four students from 2017-21 batch of B.Tech. are proposed for the award of B.Tech. degree in the 8th convocation who have completed all the requirements towards the award of degree. The list of students proposed for the award of B.Tech. degree is given in ANNEXURE-II (Page No. 14-15)

Name of the Department	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	2	0	1	1	2
EEE	2	0	2	0	2
TOTAL	4	0	3	1	4

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Senate may approve the proposed names for the award of the B.Tech. degree.

Resolution of the Senate:

The Senate recommended the proposed names to the board for the award of the B.Tech. degree.

18.3 To consider and approve the list of students of 2018-22 batch of B.Tech. for the award of degree in the 8th convocation.

Total 130 students from 2018-22 batch of B.Tech. are proposed for the award of B.Tech. degree in the 8th convocation who have completed all the requirements towards the award of degree. The list of students proposed for the award of B.Tech. degree is given in ANNEXURE - II (Page No. 15-22)

Name of the Department	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CVE	25	6	18	1	25
CSE	29	15	14	0	29
EEE	24	6	18	0	24
ECE	29	10	19	0	29
MCE	23	9	14	0	23
TOTAL	130	46	83	1	130

Senate may approve the proposed names for the award of the B.Tech. degree.

Resolution of the Senate:

The Senate recommended the proposed names to the board for the award of the B.Tech. degree.

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18.4 To consider and approve the names of medal recipients of 2018-22 batch of B.Tech. who will be honored in 8th convocation

There will be one Gold medal called Director's Medal for academic topper of the Institute. There will be five Gold medals for the toppers in each department. The proposed names and details of the recipients are given in the following table.

Sl. No.	Medal Name	Dept.	Reg. No.	Student Name	CGPA
1	Director's Gold	EEE	18EEE1029	VISHAL KEVAT	9.72
2	Gold Medal	CVE	18CVE1019	SANAT ALIAS RAM KRISHNA SHETYE	9.16
3	Gold Medal	CSE	18CSE1033	DIVYANI	9.53
4	Gold Medal	EEE	18EEE1029	VISHAL KEVAT	9.72
5	Gold Medal	ECE	18ECE1012	KASHIN BRIJ KHAJURIA	9.44
6	Gold Medal	MCE	18MCE1008	GONSALVES AARON HERCULANO	9.26

Senate may approve the proposed names for the presentation of the medals of the Institute.

Resolution of the Senate:

The Senate recommended the proposed names to the Board for the award of the medals of the Institute and congratulated them on their achievement.

18.5 To consider and approve the list of candidates of 2020-22 batch of M.Tech. to be awarded with degree in the 8th Convocation

Total 57 students from 2020-22 batch of M.Tech. are proposed for the award of M.Tech. degree in the 8th convocation who have completed all the requirements towards the award of degree. The list of students proposed for the award of M.Tech. degree is given in ANNEXURE III (Page No. 23-26)

Specialization	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	16	7	9	0	16

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PEPS	19	7	12	0	19
VLSI	22	5	17	0	22
TOTAL	57	19	38	0	57

Senate may approve the proposed names for the award of the M.Tech. degree.

Resolution of the Senate:

The Senate recommended the proposed names to the Board for the award of the M.Tech. degree.

18.6 To consider and approve the names of medal recipients of 2020-22 batch of M.Tech. who will be honored in 8th convocation

There will be one Gold medal called Director's Medal for academic topper of the Institute. There will be three Gold medals for the toppers in each department. The proposed names and details of the recipients are given in the following table.

Sl. No.	Medal Name	Dept.	Reg. No.	Student Name	CGPA
1	Director's Gold Medal	CSE	20CSE2002	ADITYA KULKARNI	9.86
2	Gold Medal	CSE	20CSE2002	ADITYA KULKARNI	9.86
3	Gold Medal	EEE (PEPS)	20EEE2011	KUNAL VADGAMA	8.95
4	Gold Medal	ECE (VLSI)	20ECE2021	SRUJANA KRISHNAMURTHY PILLAY	9.61

Senate may approve the proposed names for the presentation of the medals of the Institute.

Resolution of the Senate:

The Senate recommended the proposed names to the Board for the award of the medals of the Institute and congratulated them on their achievement.

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18.7 To consider and approve the list of candidates to be conferred with the Ph.D. degree of the Institute

Ten students are proposed for the award of Ph.D. degree in the 8th convocation who have completed all the requirements towards the award of degree. The details of the students are given in ANNEXURE- IV (Page No. 27)

Department	No. of students eligible for the award of degree
APS	3
CSE	2
ECE	2
EEE	3
Total	10

Senate may approve the proposed names for the award of the Ph.D. degree.

Resolution of the Senate:

Senate recommended the proposed students to the Board for the award of the Ph.D. degree of the Institute.

18.8 To authorize the Senate Chairman to approve the name of Ph.D. graduands who will fulfill the requirement for the award of degree between 07/09/2022 and date of 8th convocation.

Few of the Ph.D. students have submitted the thesis and awaiting the evaluation report from the experts and thesis defence. Some reports may be received between 07/09/2022 and the date of convocation. Hence, it is proposed to authorize the Senate Chairman to approve the name of those graduands to be considered for the award of Ph.D. degree in the 8th convocation, upon completion of all the academic requirements.

Senate is requested to approve the proposal.

Resolution of the Senate:

The Senate authorized the Senate Chairman to approve the Ph.D. students who will fulfill the requirement for the award of Ph.D. degree between 07/09/2022 and 28.09.2022.

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18.9 Additional items, if any, with permission of the Chairman, Senate

18.9.1 Selection of Senate Nominees to the BoG

The tenure of senate nominee to the BoG, Dr. Velavan Kathirvelu and Dr. Damodar Reddy Edla were completed. Hence the Senate members are requested to nominate the new members to represent the senate in the Board.

Resolution of the Senate:

The senate appreciated the contribution of the Dr. Velavan Kathirvelu and Dr. Damodar Reddy Edla as the BoG members. Based on the opinion of Senate members, the Chairman Senate nominates the following faculty members as the nominee of Senate to the BoG of NIT Goa.

1. Dr. Suresh Mikkili, Associate Professor, Department of EEE
2. Dr. Lalat Indu Giri, Assistant Professor, Department of ECE

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Annexure- II

NATIONAL INSTITUTE OF TECHNOLOGY GOA

BATCH: 2015-2019 (PASSING OUT IN 2022)

DEPARTMENT: COMPUTER SCIENCE AND ENGINEERING

BACHELOR OF TECHNOLOGY

S. No.	Reg. No.	Name of the Student	Gender	CGPA
1.	15CSE1022	SRIRAM VINAY KUMAR	Male	5.86

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BATCH: 2017-2021 (PASSING OUT IN 2022)

DEPARTMENT: COMPUTER SCIENCE AND ENGINEERING

BACHELOR OF TECHNOLOGY

S. No.	Reg. No.	Name of the student	Gender	CGPA
1.	17CSE1024	SOURAV BISWAS	Male	6.47
2.	17CSE1013	KALLURI KRANTHI KUMAR	Male	5.82

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BATCH: 2017-2021 (PASSING OUT IN 2022)

DEPARTMENT: ELECTRICAL AND ELECTRONICS ENGINEERING

BACHELOR OF TECHNOLOGY

S. No.	Reg. No.	Name of the student	Gender	CGPA
1.	17EEE1029	TEMBHEKAR ASHISH BHIMRAO	Male	7.21
2.	17EEE1009	HRUTHIK MANUVOTHULA	Male	6.57

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BATCH: 2018-2022

DEPARTMENT: CIVIL ENGINEERING

BACHELOR OF TECHNOLOGY

S. No.	Reg. No.	Name of the Student	Gender	CGPA
1.	18CVE1019	SANAT ALIAS RAM KRISHNA SHETYE	Male	9.16
2.	18CVE1024	SOURABH NARAHARI RANE	Male	8.98
3.	18CVE1021	SANDRA ANN SAJI	Female	8.70
4.	18CVE1025	TAYI SREE NITHYA	Female	8.62
5.	18CVE1028	VIVEKANAND PRADEEP KUMAR	Male	8.56
6.	18CVE1012	MIKKIM J SANGMA	Male	8.53
7.	18CVE1011	MAYANK MANOJ ASHTIKAR	Male	8.38
8.	18CVE1001	ANURAG DINESH SINGH	Male	8.25

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9.	18CVE1002	BENEDITO CAMILO MARIA FERRAO	Male	8.21
10.	18CVE1017	RAJKUMAR MEENA	Male	8.21
11.	18CVE1022	SHENVI KERKAR NIRAJ UMESH	Male	8.20
12.	18CVE1016	RAHUL SHOURI	Male	8.18
13.	18CVE1013	NAIK SANIL RAJARAM	Male	8.07
14.	18CVE1018	SACHIN M SAJEEVAN	Male	8.05
15.	18CVE1008	KAMASAMUDRAM YASWANTHA CHARYULU	Male	8.01
16.	18CVE1020	SANDEEP KUMAR	Male	7.99
17.	18CVE1005	DUBBAS SAITEJA	Male	7.65
18.	18CVE1003	BHARGAVI RAJENDRA PILANKAR	Female	7.61
19.	18CVE1023	SIDDHANTH NAIK	Male	7.42
20.	18CVE1010	LOKAPURE DEEPTEJ DEEPAK	Male	7.33
21.	18CVE1014	PETA ESWARA PRASAD	Male	7.28
22.	18CVE1029	YOGESH KUMAR SAIGAL	Male	7.08
23.	18CVE1009	KATA SRI VENKATA MAHITHA	Female	7.05
24.	18CVE1027	VARANASI REVANTH REDDY	Male	6.87
25.	18CVE1007	HARSH RAVI JOGLEKAR	Male	6.36

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BATCH: 2018-2022

DEPARTMENT: COMPUTER SCIENCE AND ENGINEERING

BACHELOR OF TECHNOLOGY

S. No.	Reg. No.	Name of the Student	Gender	CGPA
1.	18CSE1033	DIVYANI	Female	9.53
2.	18CSE1030	SOHAIL PANDURANG HODARKAR	Male	9.52
3.	18CSE1014	KASHINATH PREMNATH PATEKAR	Male	9.44
4.	18CSE1012	JOVIAN SHILTON D'SOUZA	Male	9.19
5.	18CSE1026	ROHIT KARTIK	Male	9.07
6.	18CSE1023	POOJA YADAV	Female	8.99
7.	18CSE1004	AKASH SOLANKI	Male	8.98
8.	18CSE1007	ETTA NIKITHA	Female	8.93
9.	18CSE1016	MARK PHILIP D'SOUZA	Male	8.81
10.	18CSE1029	SHUBHAM SHARMA	Male	8.81
11.	18CSE1024	PRATIK	Male	8.62
12.	18CSE1022	PIYUSH	Male	8.60
13.	18CSE1020	PAWAN KUMAR GULATI	Male	8.56
14.	18CSE1021	PILLY MEGHANA	Female	8.56
15.	18CSE1013	APURVA ASHOK KANEKAR	Female	8.52
16.	18CSE1010	HARSH YADAV	Male	8.42

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17.	18CSE1028	SATYAM MISHRA	Male	8.23
18.	18CSE1017	MAYANK SOLANKI	Male	7.99
19.	18CSE1011	JATIN KUMAR	Male	7.90
20.	18CSE1003	AKASH GOPALAN NAIR	Male	7.78
21.	18CSE1001	AIDEN BINU JACOB	Male	7.77
22.	18CSE1005	CHANDANA HARI M	Female	7.76
23.	18CSE1015	KONDA SAI NIKHIL	Male	7.59
24.	18CSE1006	DHAWALKUMAR CHHAGANBHAI ROHIT	Male	7.56
25.	18CSE1031	SURAJ TOPNO	Male	7.47
26.	18CSE1018	NUNAVATH SACHIN	Male	7.02
27.	18CSE1019	P.MANEESH KUMAR	Male	6.93
28.	18CSE1002	AJAZ ASLAM	Male	6.87
29.	18CSE1009	GUDIPATI SAI	Male	6.61

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BATCH: 2018-2022

DEPARTMENT: ELECTRICAL AND ELECTRONICS ENGINEERING

BACHELOR OF TECHNOLOGY

S. No.	Reg. No.	Name of the Student	Gender	CGPA
1.	18EEE1029	VISHAL KEVAT	Male	9.72
2.	18EEE1025	SHIVATMAN CHANDRASEKHAR PAL	Male	9.16
3.	18EEE1019	PULIPELLY SHASHANK REDDY	Male	8.93
4.	18EEE1012	LAXMIKANT DWARKANATH PAI ANGLE	Male	8.69
5.	18EEE1009	JERSON LUCACINHO GOMES	Male	8.63
6.	18EEE1017	MD SAQUIB RAHMAN	Male	8.55
7.	18EEE1022	SAHIL SUNIL SHET	Male	8.45
8.	18EEE1021	RAUSHAN SINGH	Male	8.44
9.	18EEE1015	MALLE ROHITH KUMAR	Male	8.36
10.	18EEE1006	BONU GUNA SNEHA	Female	8.35
11.	18EEE1026	SRISHTI DHAVAL PATKAR	Female	8.15
12.	18EEE1024	SAURAV SUMAN U PRASAD	Male	8.08
13.	18EEE1004	ANMOL AGRAWAL	Male	8.01
14.	18EEE1027	TANISH SAHU	Male	7.92
15.	18EEE1031	YEGIREDDI YASWANTH	Male	7.75
16.	18EEE1010	ISHAN GHANASHAM SINAI KAKODKAR	Male	7.38
17.	18EEE1020	RATNESH KUSHALI VELIP	Male	7.27

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18.	18EEE1023	SANJANA SUDHAKER NAIK	Female	7.23
19.	18EEE1030	VUDEM SAI VARUN REDDY	Male	7.17
20.	18EEE1013	MADRI ABHISHEK	Male	7.15
21.	18EEE1001	ABDUL SAMEER	Male	7.07
22.	18EEE1007	BURRI SAI BHARGAV	Male	7.07
23.	18EEE1003	AMIT BABERWAL	Male	6.88
24.	18EEE1002	ADHITHYAN VADAKKELLATHU	Male	6.55

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BATCH: 2018-2022

DEPARTMENT: ELECTRONICS AND COMMUNICATION ENGINEERING

BACHELOR OF TECHNOLOGY

S. No.	Reg. No.	Name of the Student	Gender	CGPA
1.	18ECE1012	KASHIN BRIJ KHAJURIA	Male	9.44
2.	18ECE1023	SANKET ZANWAR	Male	9.35
3.	18ECE1032	MAYANK RAJ	Male	9.28
4.	18ECE1021	SAHIL RAMANAND RAIKAR	Male	9.22
5.	18ECE1033	NANCHARLA SRI LAXMI	Female	9.13
6.	18ECE1024	SARVESH S KADAM	Male	9.02
7.	18ECE1025	SINGH PAWAN UMESH SINGH	Male	8.93
8.	18ECE1006	DEEPANSHU YADAV	Male	8.83

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9.	18ECE1005	APARNA GUPTA	Female	8.75
10.	18ECE1026	SOMENDRANATH MAHENDRANATH USGAONKAR	Male	8.66
11.	18ECE1004	ANURAG SINGH	Male	8.48
12.	18ECE1015	PALKAR SHUBHAM R.	Male	8.43
13.	18ECE1031	YENNI HEMANTH NAIDU	Male	8.41
14.	18ECE1027	THIRUNAGARI SANTHI	Female	8.36
15.	18ECE1003	ANURAG SINGH	Male	8.30
16.	18ECE1009	GAURAV YADAV	Male	8.25
17.	18ECE1007	GAMMA PRASHANTH	Male	8.23
18.	18ECE1010	HALARNEKAR RISHABH SANTOSH	Male	8.17
19.	18ECE1002	ANNANGI RAJ KUMAR	Male	8.10
20.	18ECE1018	RITESH YADAV	Male	8.01
21.	18ECE1020	S SHAKTHI BALAN	Male	7.93
22.	18ECE1022	SAMRUDDHI SUBHASH BANKAR	Female	7.92
23.	18ECE1030	DURVA PRASAD VALVAIKER	Female	7.87
24.	18ECE1001	ANKUR KUMAR MAHALA	Male	7.85
25.	18ECE1017	RAJ GHANASHYAM NADKARNI SAWARDEKER	Male	7.76
26.	18ECE1008	GAURAV SANDEEP NAIK	Male	7.54
27.	18ECE1019	ROSEMARY SANTHOSH	Female	7.54
28.	18ECE1014	P R RAHUL	Male	7.14
29.	18ECE1029	VALLE KARUN RAJ	Male	6.76

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NATIONAL INSTITUTE OF TECHNOLOGY GOA
BATCH: 2018-2022

DEPARTMENT: MECHANICAL ENGINEERING

BACHELOR OF TECHNOLOGY

S. No.	Reg. No.	Name of the Student	Gender	CGPA
1.	18MCE1008	GONSALVES AARON HERCULANO	Male	9.26
2.	18MCE1016	AMRAM XAVIER PEREIRA	Male	9.11
3.	18MCE1005	ARJUN R JAGADISH	Male	9.01
4.	18MCE1006	BETAPELLI HEMA SRI	Female	9.01
5.	18MCE1021	SANGAOKER YOGIRAJ RUDRESH	Male	8.93
6.	18MCE1024	SIDDHANT GURUDAS KASKAR	Male	8.73
7.	18MCE1022	SAURABH SINGH CHAUHAN	Male	8.71
8.	18MCE1004	AMEY TUKARAM GAUDE	Male	8.62
9.	18MCE1017	PRASHANT KUMAR	Male	8.55
10.	18MCE1009	HARSH KAILAS GAIKWAD	Male	8.38
11.	18MCE1002	ABHISHEK PRASAD	Male	8.17
12.	18MCE1028	YASHVENDRA KUMAR SENGAR	Male	8.12
13.	18MCE1025	SONU MARUTI HARIJAN	Male	8.06
14.	18MCE1019	RAHUL JADHAV	Male	7.91
15.	18MCE1018	PRIYANCY GAUTAM	Female	7.68
16.	18MCE1013	MUDIT YADAV	Male	7.59
17.	18MCE1001	AACHAL LAXMIKANT NAIK	Female	7.56

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18.	18MCE1003	ALISHA VIJAY THORAT	Female	7.51
19.	18MCE1007	CHALLARI SIVA RAMA KRISHNA	Male	7.19
20.	18MCE1023	SHIVAM MAHESH NAIK	Male	7.18
21.	18MCE1027	VISLAVATH NARESH KUMAR	Male	7.13
22.	18MCE1020	SACHIN KUMAR	Male	7.10
23.	18MCE1011	KASIREDDI TARUN	Male	6.64

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Annexure- III

NATIONAL INSTITUTE OF TECHNOLOGY GOA

BATCH: 2020-2022

DEPARTMENT: COMPUTER SCIENCE AND ENGINEERING

MASTER OF TECHNOLOGY IN COMPUTER SCIENCE AND
ENGINEERING

S. No.	Reg. No.	Name of the Student	Gender	CGPA
1.	20CSE2002	ADITYA KULKARNI	Male	9.86
2.	20CSE2017	SHREYA HARDAHA	Female	9.55
3.	20CSE2006	ARPIT DAVID HUNTER	Male	9.05
4.	20CSE2012	KHATSURIA YASH VIJAYBHAI	Male	9.00
5.	20CSE2016	SHISHIR SHETTY	Male	9.00
6.	20CSE2013	ROHITKUMAR S JIGALUR	Male	8.73
7.	20CSE2001	ABHISHEK TYAGI	Male	8.63
8.	20CSE2004	ALISHA	Female	8.44
9.	20CSE2009	HRUSHIKESH SANJAY BARAVKAR	Male	8.19
10.	20CSE2005	AMIT SUBHASH CHAUHAN	Male	8.03
11.	20CSE2019	VIGNESH	Male	7.97
12.	20CSE2011	KANISHKA VIJAY INGLE	Male	7.94
13.	20CSE2007	BHAVIKA RAMESH BHAGCHANDANI	Female	7.69
14.	20CSE2021	VUNNAMATLA MANASWINI RAO	Female	7.61

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15.	20CSE2014	SATISH KUMAR	Male	7.20
16.	20CSE2003	AJAY KUMAR YADAV	Male	6.83

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BATCH: 2020-2022

DEPARTMENT: ELECTRICAL AND ELECTRONICS ENGINEERING

MASTER OF TECHNOLOGY IN POWER ELECTRONICS AND POWER SYSTEMS

S. No.	Reg. No.	Name of the Student	Gender	CGPA
1.	20EEE2011	KUNAL VADGAMA	Male	8.95
2.	20EEE2012	MIDHUN MOHAN	Male	8.94
3.	20EEE2004	ANJU MATHEW	Female	8.91
4.	20EEE2021	VAIBHAV PURUSHOTTAM BHUTADA	Male	8.70
5.	20EEE2016	RAJGOPAL S	Male	8.64
6.	20EEE2017	ROHIT RANJAN	Male	8.64
7.	20EEE2001	ADITHYA B UDAY	Male	8.58
8.	20EEE2018	SHAILLY SINGH	Female	8.48
9.	20EEE2003	ANCHAL YADAV	Female	8.47
10.	20EEE2019	SHIVAM MOHAN LACHURE	Male	8.45
11.	20EEE2002	AMRITHA S	Female	8.22
12.	20EEE2010	KONGALA UNNATH KUMAR	Male	8.20
13.	20EEE2008	GAUTAM SADASHIVA NAIK	Male	8.11

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14.	20EEE2013	MUHAMED MASROOR C B	Male	7.94
15.	20EEE2020	THANZEEM MUBARIS M V	Male	7.91
16.	20EEE2007	ESAKKIMUTHU S	Male	7.38
17.	20EEE2009	KALLELAPU RAMBABU	Male	7.36
18.	20EEE2014	NENAVATH VINOD	Male	7.09
19.	20EEE2015	PILLI ANANYA DEEP	Male	7.08

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BATCH: 2020-2022

DEPARTMENT: ELECTRONICS AND COMMUNICATION ENGINEERING

MASTER OF TECHNOLOGY IN VLSI

S. No.	Reg. No.	Name of the Student	Gender	CGPA
1.	20ECE2021	SRUJANA KRISHNAMURTHY PILLAY	Female	9.61
2.	20ECE2002	ARKAPRABHO ADHIKARY	Male	9.36
3.	20ECE2017	RAHUL KUMAR	Male	9.33
4.	20ECE2022	TANYA SUSAN JACOB	Female	8.81
5.	20ECE2003	ARMAN CHANDRA	Male	8.59
6.	20ECE2019	RUPESH DAMODAR KADHAO	Male	8.48
7.	20ECE2010	VADLA MANOJ	Male	8.34
8.	20ECE2014	NEHA BABU	Female	8.30

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9.	20ECE2007	JOHN SEBASTIAN	Male	8.23
10.	20ECE2001	ANUJ KUMAR CHHIKARA	Male	8.20
11.	20ECE2012	MOHAMMED MUSTHAK	Male	8.19
12.	20ECE2006	JAMPALA RAVINDRA BABU	Male	8.13
13.	20ECE2015	NELLI DURGA PRASAD	Male	8.13
14.	20ECE2009	KARNATI PRUDHVI KUMAR	Male	8.11
15.	20ECE2016	PRAMOD VIDYADHAR PATWARDHAN	Male	8.11
16.	20ECE2004	BHARATH V BHAT	Male	7.97
17.	20ECE2011	MIDHUN MADHU AATTUMALA	Male	7.89
18.	20ECE2023	MAMILLA TEJA SWAROOP KUMAR	Male	7.86
19.	20ECE2005	HALAVATH DEVI VARA PRASAD	Male	7.67
20.	20ECE2013	MUHAMMED SUBEEN M A	Male	7.66
21.	20ECE2020	SHASHWAT CHANDRASHEKHAR ADHAU	Male	7.53
22.	20ECE2008	KALIVELUGULA KIRAN RAJ	Male	6.53

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Annexure- IV

NATIONAL INSTITUTE OF TECHNOLOGY GOA

(GETTING AWARDED WITH Ph.D IN 2022)

DOCTOR OF PHILOSOPHY

S. No.	Reg. No.	Name of the Scholar	Gender	Title of the Thesis
1.	16ECE3009	MS. SITHARA RAVEENDRAN	Female	Approaches to the Optimisation of Multimedia Applications Using Reversible Logic and Approximate
2.	18CSE3001	MS. AMRITA NAIK	Female	Lung Nodule Classification using Convolution Neural Networks on Computed Tomography Images
3.	16CSE3004	MR. SABALE KETAN RAJENDRA	Male	Mobile Beacon-Assisted Localization in Wireless Sensor Networks
4.	16HS3004	MR. VADDADI V. S. CHIDAMBARA SWAMY	Male	Development of Fiber Bragg Grating (FBG) Sensors for Water Column Applications.
5.	16EEE3001	MR. R.V.S.E SHRAVAN	Male	Droop Controlled Power Flow and Power Quality Improvement Using Interlinking Converter in Islanded Hybrid Microgrid
6.	18EEE3003	MR. GADIRAJU HARISH KUMAR VARMA	Male	Investigation on Reconfiguration Schemes for Power Enhancement in Total-Cross Tied PV Array Topology under Partial Shading Conditions.

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7.	17EEE3001	MR. PRAVEEN KUMAR BONTHAGORLA	Male	Development of Meta-heuristic Algorithms for Stand-Alone PV System to Extract Maximum Power under Partial
8.	18HS3004	MR. SUMAN SHEKAR	Male	Studies on Constrained Rayleigh-Benard Convection in Single and Multi-Component
9.	16HS3003	MR. AMIT PANDEY	Male	Novel 5-bromoisophthalamide based ligands for the extraction of Uranyl and Thorium ions: Synthesis, Characterization, and Evaluation.
10	17ECE3003	MS. JAGADEV PREETI MAHAVEER	Female	Contactless Monitoring of Human Respiration using Infrared Thermography and Deep Learning

Annexure 19.I



NATIONAL INSTITUTE OF TECHNOLOGY GOA

Farmagudi, Ponda, Goa 403 401

Rules for withdrawal of Admission (B.Tech./M.Tech./Ph.D.)

NIT Goa will consider request for withdrawal of admission if such a request is made in accordance with the following rules:-

1. Students admitted to any of the courses offered by the Institute may apply for withdrawal of his/her admission at any time during the program.
2. Application for withdrawal must be made in the prescribed format (enclosed) duly signed by the student and his/her parent and to be submitted in person. Other modes of application will not be entertained. Please note that the student's presence is a must for the withdrawal of his/her admission. Requests received through Email or Post will not be entertained and responded.
3. Fee refunds to such students will be made as per Institute refund policy. All refunds shall be made only to the bank account as per the details furnished in the application.
4. Transfer Certificate (TC)/Conduct Certificate (CC)/Migration Certificate (MC) will be issued only after producing the No Dues Certificate and application for the withdrawal in original (Note: minimum of seven working days are required to issue the certificate requested).
5. In case the applicant is authorizing some person to receive the TC/CC/MC on behalf of him/her; a Letter of Authorization in original, wherein the authorizer attests the signature and photo identity of the authorized person, must be submitted to the Assistant Registrar (Establishment Section).
6. Refund Policy is available on the Institute website.

Date:...../...../20....

To
The Dean (Academics)
National Institute of Technology Goa

Subject: Request for Withdrawal of Admission

I was enrolled at National Institute of Technology Goa in the year

My particulars are as follows:

Name : Father's Name :

Roll No./Enrollment No. :

Programme in which Admitted (B.Tech./M.Tech./Ph.D.) :

Department : Current Semester :

Mobile No. : Email Id. :

Reasons for withdrawal of admission:.....
.....

Bank details of the student applying for withdrawal of admission:

Bank Details (Bank Account no. should be in the name of Student or Parents)	
Bank Name :	
Bank IFSC Code :	
Bank A/c No. :	
Name of A/c Holder :	

I hereby apply to withdraw my admission from NIT Goa and request that you kindly refund the fee as per the Institute refund rules. I have read the institute refund rules & rules for withdrawal of admission, which is available on the website of the Institute. I shall abide by all the rules, regulations, terms and conditions of the Institute.

.....
Signature of Applicant's Parent

.....
Signature of Applicant with date

Recommended

.....
HOD / Centre In charge

The above candidate is allowed to withdraw his/her seat on his/her own request.

.....
Dean (Academics)

Mandatory Enclosure: Original Admission Slip, Self-Attested Photocopy of Bank Pass Book, Self-Attested photocopy of Aadhaar Card, No Dues Certificate (Original), Last Mark Sheet (For TC/MC).

Refund Policy

1. Refund of Fee against withdrawal during the ongoing admission process by the concerned Central Counselling Authority (CCA).
If a candidate withdraws his/her admission when the admission process is going on, the refund rules will be governed by the rules of the concerned CCA.
2. If a candidate withdraws his/her admission after the cutoff date, he/she will be entitled for a refund by deducting a sum of Rs.10,000/- (Rs. Ten Thousand Only), provided CCA or the Institute has an opportunity to offer his/her vacant seat to other candidates and get filled. However SC/ST candidates will be exempted from the above deduction.
3. If a candidate withdraws his/her admission and the Institute has no chance to fill up the seat thus vacated, no fee will be refundable to the candidate.
4. Refund of Fee in case candidate who could not clear their qualifying examination within the stipulated period given by CCA or the Institute. His/her admission will be treated as cancelled, and the candidate is not eligible for any refund.
5. In case of the unfortunate death of a student, a sum of Rs.1,000/- (One Thousand Only) will be deducted, and the rest amount for the respective semester shall be refunded.
6. Refund in case of Detained/debarred Students.
If a student has paid the fees for the semester in which he/she can't be admitted due to the detention, the paid fee shall be adjusted against the corresponding semester whenever he/she becomes eligible for admission. However, such a fee adjustment will not be allowed if a student is not admitted due to any punishment imposed by the institute administration.

The above rules shall remain applicable till further orders.

Annexure 19.II



NATIONAL INSTITUTE OF TECHNOLOGY GOA

Farmagudi, Ponda, Goa 403 401

Leave Rules for Ph.D. (Full-time) and M. Tech. (Full-time) Students

A. Leave Rules for Ph. D. (Full-time)/Sponsored Students:

1. A student during his/her stay at the institute, will be entitled to **30 days of leave in each academic year, including casual leave and leave on medical grounds.** These students are not entitled to have a vacation, even during mid/end semester breaks, summer and winter vacations. He/She will have to apply for leave explicitly by stating proper reasons.
2. Duty leaves of up to **30 days** in an academic year may be granted by HoD on the recommendation of Ph.D. Supervisor for data collection, testing/measurements (if facility not available in the institute), presenting research papers in conferences, attending workshops/conferences required for his/her research work, etc. An additional period of duty leaves, if required, may be sanctioned by the Director based on the recommendation of Ph.D. Supervisor, HoD and Dean (Academics).
3. A student may be allowed to leave the station to visit other places (in addition to the collaborating Organizations/Institutes/Industries) preferably after completion of their course work or during vacations, when there is no scheduled teaching work; if recommended by Supervisor and HoD, and approved by Dean (Academics) well in advance.
4. The students are eligible for Maternity/Paternity Leave with Assistantship as per Govt. of India notifications released from time to time.
5. Calculation of prefix and suffix for availing holidays with the leaves will be as per norms of Earned Leave/Casual leave of the Institute employees.
6. The leave should be maintained in the department on calendar year basis i.e January to December. In case student is enrolled in the middle of the calendar year, the proportionate leave can be granted to him/her.
7. Leave of any kind will not be carried forward to next calendar year.

B. Leave Rules for M. Tech. (Full-time) Students:

1. A student during his/her stay at the institute, will be entitled to **20 days of leave in each academic year, including casual leave and leave on medical grounds**. These students are not entitled to have a vacation, even during mid/end semester breaks, summer and winter vacations. He/She will have to apply for leave explicitly by stating proper reasons.
2. Duty leaves of up to **15 days** in an academic year may be granted by HoD on the recommendation of project guide for data collection, testing/measurements (if facility not available in the institute), presenting research papers in conferences, attending workshops/conferences required for his/her research work, etc. An additional period of duty leaves, if required, may be sanctioned by the Director based on the recommendation of project guide, HoD and Dean (Academics). These duty leaves will be available only after completion of 2nd semester, and till end of the M. Tech. program
3. A student may be allowed to leave the station to visit other places (in addition to the collaborating Organizations/Institutes/Industries) preferably after completion of 2nd semester or during vacations when there is no scheduled teaching work, if recommended by project guide and HoD, and approved by Dean (Academics) well in advance.
4. The students are eligible for Maternity/Paternity Leaves with Assistantship as per Govt. of India notifications released from time to time.
5. Calculation of prefix and suffix for availing holidays with the leaves will be as per norms of Earned Leave/Casual leave of the Institute employees.
6. The leave should be maintained in the department on calendar year basis i.e January to December. In case student is on roll for part of the calendar year, the proportionate leave can be availed by him/her.
7. Leave of any kind will not be carried forward to next calendar year.

Annexure 19.III

A. CONVERSION OF FULL-TIME PHD SCHEME TO PART-TIME PHD SCHEME

The student may be allowed to convert his/her Ph.D. registration from a full-time to a part-time scheme **after the completion of comprehensive examination with substantial research output**. He/She has to apply to the Director through the proper channel (Supervisor(s), DRPC, and Dean Academics). The institute fellowship must be stopped immediately upon submitting the application in such a case. However, the conversion from Part-Time to Full-Time will not be permitted.

B. CONVERSION OF PROJECT FELLOWSHIP TO INSTITUTE FELLOWSHIP

The following procedure is recommended for converting JRF/SRF under different schemes to Institute fellowship:

1. The scholar must have been selected through a regular advertisement at the time of Ph.D. admissions satisfying the eligibility criteria. Initially, he/she will be paid a scholarship from the project funds of the Project Investigator (PI). His/Her admission at this point of time will be an addition to the number of seats allotted to the Department/Institute.
2. The scholar is eligible for conversion from JRF to Institute fellowship only after working for a period of 1 year in case of 2-year project or 2 years in case of a 3-year project.
3. If the project is getting completed in the beginning or in between the next semester, the following guidelines are applicable:
 - (i) Scholar need to apply for PhD admission against the advertisement during the period in which the scholar wants to get his/her project fellowship converted to Institute fellowship.
 - (ii) No need to attend written test or interview, if his/her first selection as JRF/SRF was against an advertisement for Ph.D. admissions. Otherwise, he/she has to attend the selection process.
 - (iii) The PI shall submit the recommendations of the DRC for considering his application for converting from project to Institute fellowship. This is required as such conversions will be shown against the number of admissions allotted to the department for that Academic year.
 - (iv) The Department should include all such candidates in the shortlist for the selection process irrespective of the merit among that batch of applicants.
 - (v) The HoD shall take care of including all such names in the final selection list.

- (vi) Departments are requested to note that all such selections will be deducted from the number of admissions allotted to the department for that academic year.
4. The scholar shall apply to the Director through proper channel (i.e., Supervisor(s), DRPC and Dean-Academic) requesting for conversion of the scholar from Project funds to the Institute fellowship once the project gets closed. The supervisor (PI) should enclose the following with the application:
- (i) UC and SE obtained from Institute accounts section at the time of closing the project
 - (ii) Proof of the selection at the time of selection of JRF/SRF against a regular advertisement for Ph.D.
 - (iii) The scholar's application against the Ph.D. admissions and the list of selections for the current semester in which the conversion is requested.

Annexure 19.IV

Charges for Obtaining Documents from NIT Goa			
Sl. No.	Document Type	Charges (in Rupees per copy)	Revised Charges (in Rupees per copy)
After completion of Degree requirements			
1	Provisional Certificate	Free	Free (No change)
2	Duplicate Provisional Certificate	100/-	1000/-
3	Certified Copy of the Degree Certificate Transcript, Grade Card (for each individual certificate)	50/-	100/-
4	Transcript (First copy of the transcript will be issued after course completion)	Free	Free (No change)
5	Additional Transcript (duplicate)	300/-	500/-
6	Duplicate Grade Card	200/-	500/-
7	Verification of Degree Certificate, Transcript, Grade Card, JEE rank, etc. (for each individual certificate)	200/-	500/-
8	Duplicate Degree Certificate	<i>Not mentioned</i>	2000/-
Postal Charges extra: Within India-Rs.300/- (up to 10 copies) (except for Sl. No. 1 & 4), Rs.700/- (More than 10 copies) & for Abroad- Rs.2000/-			
Before completion of Degree requirements			
1	Duplicate Identity Card (will not be sent by post)	250/-	1000/-
2	Transcript	150/-	500/-
3	Verification of JEE rank, Grade Card (for each individual certificate)	100/-	500/-
4	Duplicate Grade Card	50/-	500/-
5	"Bonafide Student" Certificate	20/-	Free
6	Certificate of medium of instruction in English	Free	Free
Postal Charges extra: Within India-Rs.300/- & for Abroad-Rs.2000/-			
Note: Charges for any other documents not listed above will be recommended appropriately and will be levied after obtaining Director's permission. The mentioned charges are valid till the next review.			

Annexure 19.V

Subject Code XXX	Performance Evaluation of Computer Systems (PECS)	Credits: 3 (3-0-0) Total hours: 42
Course Objectives	To understand the various performance evaluation techniques in three broad categories of analysis, simulation, and experiment design. To apply the techniques to systematically evaluate the performance of computer subsystems.	
Module 1	8 Hours	
Overview of Performance Evaluation, Random variables and common distributions, Summarizing Measured Data, Simple Linear Regression Models, and Other Regression Models.		
Module 2	12 Hours	
Markov chains: DTMCs: Stationary and limiting distributions, CTMCs: PASTA, time-reversibility, Burke's theorem. Queueing Models: Analysis of a Single Queue, Queueing Networks, Mean Value Analysis and Related Techniques		
Module 3	12 Hours	
Discrete event simulation modeling: Graph Representing Discrete Behaviour, Event scheduling, Process interaction, Activity scanning, Measurement techniques and tools: Types of Workloads, Workload Characterization Techniques, Monitors, Ratio Games.		
Module 4	10 Hours	
Experimental design and analysis: One-Factor Experiments, Two-Factor Full Factorial Design without Replications, Two-Factor Full Factorial Design with Replications, Results presentation and analysis: Analysis of Simulation Results, Testing Random-Number Generators		
Text/Reference books	<p>Textbook(s):</p> <ol style="list-style-type: none"> 1. Raj Jain, The Art of Computer System Performance Analysis: Techniques for Experimental Design Measurements Simulation and Modeling, Wiley, (2015). 2. Mor Harchol-Balter, Performance Modeling and Design of Computer Systems, Cambridge, (2013). <p>Reference(s):</p> <ol style="list-style-type: none"> 1. Peter G. Harrison, Naresh M. Patel, Performance Modeling of Communication Networks and Computer Architectures, Addison-Wesley Longman , (1993). 2. K.S. Trivedi, "Probability and Statistics with Reliability, Queueing and Computer Science Applications", John Wiley and Sons, 2001. 	

Subject Code XXX	Software Defined Networking (SDN)	Credits: 3 (3-0-0) Total hours: 42
Course Objectives	The objective of this course is to learn about Software Defined Networking (SDN), an emerging Internet architectural framework, including the main concepts, architectures, algorithms, protocols, applications and related topics including Data Center Networks. At the end of the course, the students should be able to explain OpenFlow, challenges in SDN, and recent development in SDN. Moreover, students will use and program Mininet to write basic SDN applications using some open-sourced based SDN controller.	
Module 1	6 Hours	
History and Evolution of Software Defined Networking (SDN): Separation of Control Plane and Data Plane, Programmable Data planes: Open virtual switches. OpenFlow protocol.		
Module 2	10 Hours	
Network Operating Systems, Network Virtualization: Concepts, Applications, Existing Network Virtualization Framework (VMWare and others), Mininet based examples. Understanding different SDN Controllers including Floodlight and OpenDaylight.		
Module 3	10 Hours	
Data Plane: Software-based and Hardware-based; Programmable Network Hardware. Programming SDNs: Northbound Application Programming Interface, Current Languages and Tools; P4 Network programming languages.		
Module 4	16 Hours	
Network Functions Virtualization (NFV) and Software Defined Networks: Concepts, Implementation and Applications. Use Cases of SDNs: Data Centers, SDN in cloud, Traffic Engineering; Load balancing in SDN, Flow Admission and Routing in SDN. Controller placement in SDN, SDN based service function chain, Security in SDN, Programming Assignments for implementing some of the theoretical concepts listed above.		
Text/Reference books	<p>Textbook(s):</p> <ol style="list-style-type: none"> 1. SDN: Software Defined Networks, An Authoritative Review of Network Programmability Technologies, By Thomas D. Nadeau, Ken Gray Publisher: O'Reilly Media, August 2013, ISBN: 978-1-4493-4230-2, ISBN 10: 1-4493-4230-2. 2. Software Defined Networks: A Comprehensive Approach, by Paul Goransson and Chuck Black, Morgan Kaufmann, June 2014, Print Book ISBN: 9780124166752, eBook ISBN : 9780124166844. <p>References:</p> <ol style="list-style-type: none"> 1. SDN and OpenFlow for Beginners by Vivek Tiwari, Sold by: Amazon Digital Services, Inc., ASIN: , 2013. 2. Network Innovation through OpenFlow and SDN: Principles and Design, Edited by Fei Hu, CRC Press, ISBN-10: 1466572094, 2014. 3. Computer Networks - A Systems Approach by Larry L. Peterson, Bruce S. Davie, Morgan Kaufmann, sixth edition. 4. K. Gray and T. D. Nadeau. (2016) Network Function Virtualization. Morgan Kaufmann. (ISBN: 978-0-12-802119-4) 	

9/12/22, 11:50 AM

NIT GOA Mail - Requesting the review comments on the course syllabus



Dr. Pravati Swain <pravati@nitgoa.ac.in>

Requesting the review comments on the course syllabus

4 messages

Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: joy@iitbbs.ac.in

Wed, Aug 10, 2022 at 7:08 PM

Dear Dr. Mukherjee,
I am Dr. Pravati Swain, faculty from department of computer science and engineering, NIT Goa. I have prepared the syllabus for the course "software defined networking" which will be offered in the PG course. As per the NIT Goa rules and regulations, we need review comments from three experts.

Sir, we need your valuable suggestions for the same.
Please find the attachment.

Dr. Pravati Swain
Assistant Professor
Department of Computer Science and Engineering
NIT Goa, India

SDN-Syllabus.pdf
571K

Dr. Joy Chandra Mukherjee <joy@iitbbs.ac.in>
To: "Dr. Pravati Swain" <pravati@nitgoa.ac.in>

Thu, Aug 11, 2022 at 6:14 AM

Dear Dr. Swain,

The syllabus is OK. However, the following topics may be covered.

1. Load balancing in SDN.
2. Controller placement in SDN.
3. Flow Admission and Routing in SDN
4. Security in SDN

With Best Regards

Dr. Joy Mukherjee
School of Electrical Sciences
IIT Bhubaneswar

[Quoted text hidden]

—
Thanks & Regards

Dr. Joy Chandra Mukherjee
Assistant Professor (CSE)
School of Electrical Sciences
Indian Institute of Technology Bhubaneswar
Jatni-752050, Orissa, India
Email: joy@iitbbs.ac.in

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9/12/22, 11:50 AM

NIT GOA Mail - Requesting the review comments on the course syllabus

Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: "Dr. Joy Chandra Mukherjee" <joy@iitbbs.ac.in>

Fri, Aug 12, 2022 at 4:17 PM

Dear Dr. Mukherjee,
Thank you for your valuable suggestion.
All the said suggestions are incorporated in 'Module 4'.

P. S; Please find the updated draft in the attached file.

Thank you. Regards
Dr. Pravati Swain
Assistant Professor
Department of Computer Science and Engineering
NIT Goa, India

[Quoted text hidden]

 **SDN-Syllabus.pdf**
573K

Dr. Joy Chandra Mukherjee <joy@iitbbs.ac.in>
To: "Dr. Pravati Swain" <pravati@nitgoa.ac.in>

Fri, Aug 12, 2022 at 8:29 PM

Dear Dr. Swain,

All the best for the new course.

Regards

Dr. Joy Mukherjee
IIT Bhubaneswar
[Quoted text hidden]

Dr. V. Mahendran

Asst. Professor,

Dept. of CSE,

Indian Institute of Technology Tirupati, AP.

Review on the PECS Course Proposal

1. The course covers the fundamental techniques related to the systematic evaluation of computer systems and their performance.
2. Textbooks are most popular and self-sufficient for the concepts covered in the course.
3. The following minor points can be incorporated into the syllabus, if possible:
 - a. Major part of the course deals with Markov chains. To this end, in Module 1, (Generic) Stochastic processes can be replaced with Markov chains (DTMCs, and CTMCs). **Action plan:** Stochastic processes (in Module 1) may be removed as Markov chain topic already appears in Module 2.
 - b. Semi-Markov chains may be removed, instead Markov chains can be extensively covered, by including both DTMC and CTMC. In CTMC, PASTA, time-reversibility and Burke's theorem are essential for understanding multi-queue systems. **Action Plan:** The following may be added in place of "Markov Chain and semi-Markov chain": DTMCs: Stationary and limiting distributions, CTMCs: PASTA, time-reversibility, Burke's theorem.

—End of the Review Document—

Dr. V. Mahendran
Asst. Professor,
Dept. of CSE,
Indian Institute of Technology Tirupati, AP.

Review on the SDN Course Proposal

1. The course covers the essentials of SDN architecture and teaches the related algorithms and protocols with systems approach. Interesting programming in Mininet and openflow is taught as part of the course.
2. The following minor points can be incorporated into the syllabus, if possible:
 - a. As the objective mentions Data Center Networks (DCN), a few topics about data centers, cloud computing from the SDN perspective can be included along with NFVs.
 - b. The SDN orchestrator that leverages SDN technology for enabling the Service Function Chaining (SFC) may be included.
 - c. One “networks” book (covering SDN) can be added as a part of reference. For instance, Computer Networks - A Systems Approach, latest edition covers SDN in section 3.5. This may provide the students with basic information about network layers (both traditional and SDN). [Remark: Latest version is available online from the authors website]
 - d. A book on NFV can be included as a part of reference: K. Gray and T. D. Nadeau. (2016) Network Function Virtualization. Morgan Kaufmann. (ISBN: 978-0-12-802119-4)

—End of the Review Document—

9/12/22, 11:52 AM

NIT GOA Mail - (no subject)



Dr. Pravati Swain <pravati@nitgoa.ac.in>

(no subject)

11 messages

Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: Sreejith A V <sreejithav@iitgoa.ac.in>

Wed, Aug 10, 2022 at 7:12 PM

Dear Dr. Sreejith,

I am Dr. Pravati Swain, faculty from the department of computer science and engineering, NIT Goa. I have prepared the syllabus for the course " Performance Evaluation of Computer Systems' which will be offered in the PG course. As per the NIT Goa rules and regulations we need three experts to review comments.

Sir, we need your valuable suggestions for the same.
Please find the attachment.

Thanks and Regards
Dr. Pravati Swain
Assistant Professor
Department of Computer Science and Engineering
NIT Goa, India

PEC-Syllabus.pdf
566K

Sreejith A V <sreejithav@iitgoa.ac.in>
To: "Dr. Pravati Swain" <pravati@nitgoa.ac.in>

Thu, Aug 11, 2022 at 2:29 AM

Hi Pravati,
I can do that but only next week.

Regards,
Sreejith

[Quoted text hidden]

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Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: Sreejith A V <sreejithav@iitgoa.ac.in>

Thu, Aug 11, 2022 at 10:48 AM

Ok.
Thank you.
[Quoted text hidden]

Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: Sreejith A V <sreejithav@iitgoa.ac.in>

Mon, Aug 22, 2022 at 9:49 AM

Dear Dr. Sreejith,
I can understand your busy schedule.
It is my humble request, please send the review.

Thank you
Dr. Pravati Swain
Assistant Professor

9/12/22, 11:52 AM

NIT GOA Mail - (no subject)

Department of Computer Science and Engineering
NIT Goa, India

[Quoted text hidden]

Sreejith A V <sreejithav@iitgoa.ac.in>
To: "Dr. Pravati Swain" <pravati@nitgoa.ac.in>

Mon, Aug 22, 2022 at 11:08 PM

Hi Pravati,
I will do this tomorrow.

Regards,
Sreejith A. V.
Associate Professor,
School of Mathematics and Computer Science,
IIT Goa
<http://www.iitgoa.ac.in/~sreejithav/>

[Quoted text hidden]

Sreejith A V <sreejithav@iitgoa.ac.in>
To: "Dr. Pravati Swain" <pravati@nitgoa.ac.in>

Tue, Aug 23, 2022 at 11:44 AM

Hi Pravati,
Is there no lab component as part of this course? Will it be possible to provide a lab also for the course?

Regards,
Sreejith A. V.
Associate Professor,
School of Mathematics and Computer Science,
IIT Goa
<http://www.iitgoa.ac.in/~sreejithav/>

[Quoted text hidden]
[Quoted text hidden]

Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: Sreejith A V <sreejithav@iitgoa.ac.in>

Tue, Aug 23, 2022 at 12:08 PM

Dear Dr. Sreejith,
I have checked with IIT Madras the course was offered by Dr.Krishna Moorthy Sivalingam, there is no lab for the same.

Can I proceed further if there is no other comment?
[Quoted text hidden]

Sreejith A V <sreejithav@iitgoa.ac.in>
To: "Dr. Pravati Swain" <pravati@nitgoa.ac.in>

Tue, Aug 23, 2022 at 12:19 PM

Dear Dr. Pravati,
The course contents look good. I would recommend the course as you have proposed.

Regards,
Sreejith A. V.
Associate Professor,
School of Mathematics and Computer Science,
IIT Goa
<http://www.iitgoa.ac.in/~sreejithav/>

[Quoted text hidden]

Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: Sreejith A V <sreejithav@iitgoa.ac.in>

Tue, Aug 23, 2022 at 12:26 PM

9/12/22, 11:52 AM

NIT GOA Mail - (no subject)

Thank you Dr Sreejith for your valuable suggestions. 
[Quoted text hidden]

Sreejith A V <sreejithav@iitgoa.ac.in>
To: "Dr. Pravati Swain" <pravati@nitgoa.ac.in>
Cc: Sharad Sinha <sharad@iitgoa.ac.in>

Tue, Aug 23, 2022 at 10:38 PM

Dear Pravati,
Dr. Sharad has given some valuable suggestions. Please take a look at them.

Regards,
Sreejith A. V.
Associate Professor,
School of Mathematics and Computer Science,
IIT Goa
<http://www.iitgoa.ac.in/~sreejithav/>

----- Forwarded message -----
From: **Sharad Sinha** <sharad@iitgoa.ac.in>
Date: Tue, Aug 23, 2022 at 10:27 PM
Subject: Re:
To: Neha Karanjkar <nehak@iitgoa.ac.in>
Cc: Sreejith A V <sreejithav@iitgoa.ac.in>

Dear Sreejith,

I think the course title does not reflect the syllabus. It is not really about performance evaluation of computer systems in my opinion.
Modules 1 and 2 are essentially theoretical modules, which is fine, but the application part is missing.
Module 4 is only testing random number generators. These are components of a system but system oriented performance analysis would be at a bigger scale, in my expectations.

Regards,
Sharad

On Tue, Aug 23, 2022 at 11:24 AM Neha Karanjkar <nehak@iitgoa.ac.in> wrote:

Dear Sreejith,
I will skip this as I am swamped because of an upcoming workshop I am conducting.

Dr. Neha Karanjkar,
Assistant Professor,
Computer Science and Engineering,
Indian Institute of Technology Goa,
Homepage: <https://nehakaranjkar.github.io/>

On Mon, Aug 22, 2022 at 11:10 PM Sreejith A V <sreejithav@iitgoa.ac.in> wrote:
Dear Neha/Sharad,

Will one of you be able to give some quick comments on the syllabus for the NIT Goa course " Performance Evaluation of Computer Systems"?

Thanks,
Sreejith A. V.
Associate Professor,
School of Mathematics and Computer Science,
IIT Goa
<http://www.iitgoa.ac.in/~sreejithav/>

[Quoted text hidden]
[Quoted text hidden]

9/12/22, 11:52 AM

NIT GOA Mail - (no subject)

Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: sharad@iitgoa.ac.in
Cc: Sreejith A V <sreejithav@iitgoa.ac.in>

Fri, Aug 26, 2022 at 3:29 PM

Dear Dr. Sharad,

I am thankful for your valuable suggestions. I agree with you that the course title does not match with the content of the syllabus.

Hence, I am working on your comments.

Thanks and Regards
Dr. Pravati Swain
Assistant Professor
Department of Computer Science and Engineering
NIT Goa, India

[Quoted text hidden]

9/12/22, 11:51 AM

NIT GOA Mail - Requesting the review comments on the course syllabus



Dr. Pravati Swain <pravati@nitgoa.ac.in>

Requesting the review comments on the course syllabus

3 messages

Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: "Dr. Neminath Hubballi" <neminath@iiti.ac.in>

Wed, Aug 10, 2022 at 7:00 PM

I am Dr. Pravati Swain, faculty from department of computer science and engineering, NIT Goa. I have prepared the syllabus for the course "software defined networking" which will be offered in the PG course. As per the NIT Goa rules and regulations, we need review comments from three experts.

Sir, we need your valuable suggestions for the same.
Please find the attachment.

Thanking you
Dr. Pravati Swain
Assistant Professor
Department of Computer Science and Engineering
NIT Goa, India

SDN-Syllabus.pdf
571K

Dr. Neminath Hubballi <neminath@iiti.ac.in>
To: "Dr. Pravati Swain" <pravati@nitgoa.ac.in>

Sat, Aug 13, 2022 at 4:28 PM

Dear Dr. Pravati thank you for sharing the syllabus of the proposed course. I have read through the syllabus. It is very well designed. Should be a good course as an elective. Just one minor suggestion if you can include P4 programming it will be a good addition to the existing content.

Thanks and Regards
Neminath

Sent from my iPhone

On 10-Aug-2022, at 19:00, Dr. Pravati Swain <pravati@nitgoa.ac.in> wrote:

[Quoted text hidden]

SDN-Syllabus.pdf
571K

Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: "Dr. Neminath Hubballi" <neminath@iiti.ac.in>

Sun, Aug 14, 2022 at 7:06 AM

Dear Dr. Neminath,
Thank you for this suggestion which is important for this course and it is in 'Module-3'.

PFA.
Thank you
Dr. Pravati Swain
Assistant Professor
Department of Computer Science and Engineering

9/12/22, 11:51 AM

NIT GOA Mail - Requesting the review comments on the course syllabus

NIT Goa, India

[Quoted text hidden]

 **SDN-Syllabus.pdf**
573K

9/12/22, 11:41 AM

NIT GOA Mail - Requesting the review comments on the course syllabus



Dr. Pravati Swain <pravati@nitgoa.ac.in>

Requesting the review comments on the course syllabus

4 messages

Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: skrishnam@cse.iitm.ac.in, skrishnam@iitm.ac.in

Wed, Aug 10, 2022 at 6:55 PM

Respected Prof. Sivalingam,
I am Dr. Pravati Swain, faculty from the department of computer science and engineering, NIT Goa. I have prepared the syllabus for the course "Performance Evaluation of Computer Systems" and "software defined networking" which will be offered in the PG course. As per the NIT Goa rules and regulations, we need review comments from three experts.

Sir, we need your valuable suggestions for the same.
Please find the attachment.

Thanks
Dr. Pravati Swain
Assistant Professor
Department of Computer Science and Engineering
NIT Goa, India

2 attachments

PEC-Syllabus.pdf

566K

SDN-Syllabus.pdf

571K

Prof. Krishna Moorthy Sivalingam <skrishnam@cse.iitm.ac.in>
To: "Dr. Pravati Swain" <pravati@nitgoa.ac.in>

Thu, Aug 11, 2022 at 9:00 AM

Dr Pravati,

The syllabi for "Performance Evaluation of Computer Systems" and "software defined networking" look quite appropriate and comprehensive.

All the best,

—
Best regards
krishna

Krishna Moorthy Sivalingam, Ph.D
Institute Chair Professor, CSE Dept, IIT Madras, Chennai, India
Email: skrishnam@iitm.ac.in, skrishnam@cse.iitm.ac.in, krishna.sivalingam@gmail.com

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[Quoted text hidden]

Dr. Pravati Swain <pravati@nitgoa.ac.in>
To: "Prof. Krishna Moorthy Sivalingam" <skrishnam@cse.iitm.ac.in>

Thu, Aug 11, 2022 at 10:49 AM

9/12/22, 11:41 AM

NIT GOA Mail - Requesting the review comments on the course syllabus

Thank you sir for your reply.
I am inspired by your NPTEL lecture.
[Quoted text hidden]

Prof. Krishna Moorthy Sivalingam <skrishnam@cse.iitm.ac.in>
To: "Dr. Pravati Swain" <pravati@nitgoa.ac.in>

Thu, Aug 11, 2022 at 10:54 AM

Best regards
krishna

Krishna Moorthy Sivalingam, Ph.D
Institute Chair Professor, CSE Dept, IIT Madras, Chennai, India
Email: skrishnam@iitm.ac.in, skrishnam@cse.iitm.ac.in, krishna.sivalingam@gmail.com

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Annexure 19.VI

रक्षा अनुसंधान एवं विकास रागत्र भूम्या
भाजन संसाधन विकास निदेशालय
'बी' स्कॉप, श्रीगारबीजो मार्ग
राजाड़ी मार्ग, नई दिल्ली - 110011
दूरभाष / टेल. 011 23007240
E-mail: trgovt.dhrd.hqrs@gov.in



DRDO/70042/PQ/PIg-23/C/M/01
Defence Res & Dev. Orgn (HQ)
Dte of Human Resource Development
11 Block, DRDO Bhawan
Rajaji Marg, New Delhi 110011
Phn/Fax: 011 23014903

29 Nov 2022

To,

The Registrar

NIT, Trichy	NIT, Surathkal	NIT, Delhi	HIT, Allahabad	HIT, Silchar
NIT, Rourkela	NIT, Warangal	NIT, Durgapur	HIT, Calicut	HIT, Patna
NIT, Jalandhar	NIT, Jaipur	NIT, Nagpur	HIT, Raipur	HIT, Surat
NIT, Jamshedpur	NIT, Hamirpur	NIT, Srinagar	HIT, Bhopal	HIT, Agartala
NIT, Kurukshetra	NIT, Puducherry	NIT, Goa ✓	HIT, Meghalaya	HIT, Nagaland
NIT, Andhra Pradesh	NIT, Uttarakhand	NIT, Mizoram	NIT, Sikkim	NIT, Manipur
NIT, Arunachal Pradesh				

SUB: REQUEST FOR VACANCIES IN M.E/M. TECH PROGRAMMES FOR DRDO SPONSORED CANDIDATES FOR THE ACADEMIC YEAR 2023-24

Dear Sir,

- Every year DRDO sponsors its officials for M.E/M.Tech Programmes at various IITs, IISc Bangalore and other renowned Universities/Institute under (Research & Training) Scheme of DRDO.
- For sponsoring candidates under R&T Scheme, DRDO has its own selection process described as under-
 - During November, DRDO projects requirement of seats for M.E/M.Tech to IITs, IISc Bangalore and other Universities/Institutes for sponsorship of DRDO candidates
 - On the basis of seats allotted by the Institutes, applications are invited from interested candidates of DRDO Labs/Estts
 - Received applications are screened & interviews are normally organized for selection during Mar/April at Recruitment & Assessment Centre (RAC) of DRDO located at Delhi.
 - Selection Board consists of Senior Scientists from DRDO and Faculty from respective Institutes in the relevant discipline.
 - Results are declared during 3rd week of May.
- It is kindly requested to offer some vacancies for DRDO Sponsored candidates and confirm the acceptance of selection process of DRDO candidates for M.E/M.Tech programs at your esteemed Institute. It is also requested to kindly forward the latest Information Brochure along with the following information for admission to the academic year commencing from Jul/Aug 2023:-
 - Name of the courses along with number of seats allocated to DRDO
 - Minimum qualification with % of marks acceptable for DRDO sponsored candidates
 - Reservation for SC/ST/OBC candidates (if any)
 - Probable date of registration
 - Date of joining for pre-course/pre-guided training, if any
 - Semester wise fee structure
 - Total availability of married/single/hostel accommodation and guidelines on allotment of accommodation
- Interviews for selection are expected to be organized in Mar-Apr 2023.
- Kindly confirm at the earliest & furnish the information as early as possible.

Dean (Acad)
AK/ESTA
100

Dear Academic Director

13/12/2022

M.Begam
(Dr. Mehbuba Begam)
Sc 'F' & Addl. Dir/HRD
For Director



राष्ट्रीय प्रौद्योगिकी संस्थान गोवा NATIONAL INSTITUTE OF TECHNOLOGY GOA

फर्मागुडी, फोंडा, गोवा - 403 401, इंडिया
Farmagudi, Ponda, Goa - 403 401, India

Website : www.nitgoa.ac.in

Phone / दुर्घात : 0832-2404206

M.Tech. Programmes for DRDO sponsored candidates

(i) The name of the courses and seat allocated to DRDO sponsored candidates are as follows:

S. No.	Name of the M.Tech. Programme	Offered Department	Number of Seats allocated
1.	Computer Science Engineering (CSE)	CSE	2
2.	Power Electronics and Power Systems (PEPS)	EEE	2
3.	VLSI	ECE	2

(ii) Minimum qualification with % of marks acceptable for DRDO sponsored candidates:

(a) Bachelor's degree in Engineering/Technology or its equivalent in an appropriate area with at least 60% marks or 6.5 in CGPA on a 10 point scale for GEN/GEN-EWS/OBC, whereas 6.0 CGPA (on a 10-point scale) or 55% in case of SC/ST/PwD candidates. The CGPA/Percentage should be awarded by a recognized University/Institute.

(b) Master's degree holders in Science or relevant courses like M.Sc. (Electronics/Instrumentation/Computer Science/Information Technology/or any relevant discipline), as applicable to individual departments offering M.Tech. programmes.

(iii) Reservation for SC/ST/OBC candidates (if any)

As per Govt. of India norms

(iv) Probable date of registration

The probable date of registration may be from July to September every academic year. However, the classes' will commence as per the schedule of Centralized Counselling for M.Tech. (CCMT) admission every year.

(v) Date of joining for pre-course/pre-guided training, if any

There is no any pre-course/pre-guided training is offered by our institute for M. Tech. programmes.

(vi) Semester wise fee structure



राष्ट्रीय प्रौद्योगिकी संस्थान गोवा NATIONAL INSTITUTE OF TECHNOLOGY GOA

फर्मागुडी, पोंडा, गोवा - 403 401, इंडिया
Farmagudi, Ponda, Goa - 403 401, India

Website : www.nitgoa.ac.in

Phone / फ़ोन : 0832-2404206

Institute Fees Structure for M.Tech. Programme those are admitted in the Academic Year 2022-23

S. No.	Institute Fees	I Semester	II Semester	III Semester	IV Semester
1.	Tuition Fee (ST/SC/PH Student Exempted)	Rs.35000	Rs. 35,000	Rs.35,000	Rs. 35,000
2.	Other fees	Rs. 2,000	Rs. 2,000	Rs. 2,000	Rs. 2,000
3.	Students Activity Council	Rs. 3,000	--	Rs. 1,000	--
4.	Group Insurance Coverage of Students (Cashless)	Rs. 1,200	--	Rs. 1,200	--
5.	Security Deposit (Refundable)	Rs. 4,000	--	--	--
6.	Institute Development Contribution	Rs. 2,000*	--	--	--
7.	Alumni Association	Rs. 1,000	--	--	--
8.	Convocation Fee	Rs. 2,000	--	--	--
Total Rs.		Rs. 50,200	Rs. 37,000	Rs. 39,200	Rs. 37,000

*Institute Development Contribution for SC/ST /PH Students is Rs.1000/-

Note:- All Tuition fees may be changed as per the instruction from Ministry of Education

(vii) Total availability of married/single hostel accommodation and guideline on allotment of accommodation

Accommodation may be provided subject to availability.

L. Ande
Registrar
6/10/2021
A

National Institute of Technology Goa
Farmagudi, Ponda-Goa 403 401