

सीनेट की छिहत्तरवीं बैठक का कार्यवृत्त
MINUTES OF THE 76th MEETING OF THE SENATE

02 जनवरी 2019
02nd JANUARY 2019



भारतीय प्रौद्योगिकी संस्थान रुड़की
रुड़की – 247 667 (भारत)
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE – 247 667 (INDIA)

भारतीय प्रौद्योगिकी संस्थान रुड़की
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INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
MEETING SECTION



Minutes of the 76th Meeting of the Senate held on 02.01.2019 at 4.00 P.M. in the Senate Hall of the Institute.

Following were present:

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|-----|----------------------------|----------------------------------|
| 1. | Prof. Ajit K. Chaturvedi | Director & Chairman |
| 2. | Prof. Arun Kumar | (Alternate Hydro Energy Centre) |
| 3. | Prof. R.P. Saini | (Alternate Hydro Energy Centre) |
| 4. | Prof. M.P. Sharma | (Alternate Hydro Energy Centre) |
| 5. | Prof. Ila Gupta | (Architecture & Planning) |
| 6. | Prof. Bijan Choudhary | (Biotechnology) |
| 7. | Prof. Sanjay Ghosh | (Biotechnology) |
| 8. | Prof. Pravindra Kumar | (Biotechnology) |
| 9. | Prof. Ramasare Prasad | (Biotechnology) |
| 10. | Prof. Partha Roy | (Biotechnology) |
| 11. | Prof. Ahswani Kumar Sharma | (Biotechnology) |
| 12. | Prof. R.P. Singh | (Biotechnology) |
| 13. | Prof. Kaushik Ghosh | (Chemistry) |
| 14. | Prof. Bina Gupta | (Chemistry) |
| 15. | Prof. P. Jeevanandam | (Chemistry) |
| 16. | Prof. M.R. Maurya | (Chemistry) |
| 17. | Prof. Mala Nath | (Chemistry) |
| 18. | Prof. R.K. Peddinti | (Chemistry) |
| 19. | Prof. U.P. Singh | (Chemistry) |
| 20. | Prof. K.R. Justin Thomas | (Chemistry) |
| 21. | Prof. Z. Ahmad | (Civil Engineering) |
| 22. | Prof. P.K. Garg | (Civil Engineering) |
| 23. | Prof. R.D. Garg | (Civil Engineering) |
| 24. | Prof. S.K. Ghosh | (Civil Engineering) |
| 25. | Prof. B.R. Gurjar | (Civil Engineering) |
| 26. | Prof. Kamal Jain | (Civil Engineering) |
| 27. | Prof. C.S.P. Ojha | (Civil Engineering) |
| 28. | Prof. M. Parida | (Civil Engineering) |
| 29. | Prof. K.S. Hari Prasad | (Civil Engineering) |
| 30. | Prof. Rajat Rastogi | (Civil Engineering) |
| 31. | Prof. N.K. Samadhiya | (Civil Engineering) |
| 32. | Prof. Umesh Kumar Sharma | (Civil Engineering) |
| 33. | Prof. Mahendra Singh | (Civil Engineering) |
| 34. | Prof. Akhil Upadhyay | (Civil Engineering) |
| 35. | Prof. R. Balasubramanian | (Computer Science & Engineering) |

36.	Prof. Sugata Gangopadhyay	(Computer Science & Engineering)
37.	Prof. Durga Toshniwal	(Computer Science & Engineering)
38.	Prof. Pankaj Agarwal	(Earthquake Engineering)
39.	Prof. B.K. Maheshwari	(Earthquake Engineering)
40.	Prof. M.L. Sharma	(Earthquake Engineering)
41.	Prof. Manish Shrikhande	(Earthquake Engineering)
42.	Prof. Sunil Bajpai	(Earth Sciences)
43.	Prof. G.J. Chakrapani	(Earth Sciences)
44.	Prof. R. Krishnamurthi	(Earth Sciences)
45.	Prof. D.K. Mukhopadhyay	(Earth Sciences)
46.	Prof. A.K. Sen	(Earth Sciences)
47.	Prof. Biswarup Das	(Electrical Engineering)
48.	Prof. N.P. Padhy	(Electrical Engineering)
49.	Prof. G.N. Pillai	(Electrical Engineering)
50.	Prof. Debashish Ghosh	(Electronics & Communication Engg.)
51.	Prof. N.P. Pathak	(Electronics & Communication Engg.)
52.	Prof. Dharmendra Singh	(Electronics & Communication Engg.)
53.	Prof. N.K. Goel	(Hydrology)
54.	Prof. M.K. Jain	(Hydrology)
55.	Prof. Himanshu Joshi	(Hydrology)
56.	Prof. M. Perumal	(Hydrology)
57.	Prof. Ramesh Chandra	(Institute Instrumentation Centre)
58.	Prof. Zillur Rahman	(Management Studies)
59.	Prof. Anil Kumar Sharma	(Management Studies)
60.	Prof. Rama Bhargava	(Mathematics)
61.	Prof. Kusum Deep	(Mathematics)
62.	Prof. Sunita Gakkhar	(Mathematics)
63.	Prof. Roshan Lal	(Mathematics)
64.	Prof. N. Sukavanam	(Mathematics)
65.	Prof. D.K. Dwivedi	(Mechanical & Industrial Engg.)
66.	Prof. B.K. Gandhi	(Mechanical & Industrial Engg.)
67.	Prof. S.P. Harsha	(Mechanical & Industrial Engg.)
68.	Prof. Dinesh Kumar	(Mechanical & Industrial Engg.)
69.	Prof. B.K. Mishra	(Mechanical & Industrial Engg.)
70.	Prof. Manish Mishra	(Mechanical & Industrial Engg.)
71.	Prof. P.M. Pathak	(Mechanical & Industrial Engg.)
72.	Prof. A.K. Sharma	(Mechanical & Industrial Engg.)
73.	Prof. I.V. Singh	(Mechanical & Industrial Engg.)
74.	Prof. G.P. Chaudhuri	(Metallurgical & Materials Engg.)
75.	Prof. B.S.S. Daniel	(Metallurgical & Materials Engg.)
76.	Prof. S.K. Nath	(Metallurgical & Materials Engg.)
77.	Prof. Ujjwal Prakash	(Metallurgical & Materials Engg.)
78.	Prof. Anjan Sil	(Metallurgical & Materials Engg.)
79.	Prof. Y.S. Negi	(Paper Technology)
80.	Prof. Aalok Misra	(Physics)
81.	Prof. Tashi Nautiyal	(Physics)
82.	Prof. Vipul Rastogi	(Physics)
83.	Prof. Rajesh Srivastava	(Physics)
84.	Prof. G.D. Varma	(Physics)
85.	Prof. K.L. Yadav	(Physics)

86. Prof. M.L. Kansal (WRD&M)
87. Prof. Deepak Khare (WRD&M)
88. Prof. S.K. Mishra (WRD&M)
89. Prof. Sharad K. Jain, Director, NIH, Roorkee
90. Prof. S.K. Singhal, Head, Alternate Hydro Energy Centre
91. Prof. R.K. Dutta, Head, Centre of Nanotechnology
92. Prof. P. Gopinath, ADOAA (Admission)
93. Prof. S.H. Upadhyay, ADOSW (Bhawans & Messes)
94. Prof. M.K. Barua, ADOSW (Students Activities)
95. Prof. P. Arumugam, Associate Dean (International Relations)
96. Dr. C. Jayakumar, Librarian

Students' representatives:

97. Mr. Sarim Khan, General Secretary, Academic Affairs (UG)
98. Ms. Priyanka Chaudhary (on behalf of Convener SAC)
99. Mr. Satish Jaiswal, General Secretary, Academic Affairs (PG)
100. Mr. Prashant Garg, Registrar & Secretary, Senate

Prof. Rajat Agarwal, Chairman, SCSP attended the meeting on invitation.

At the outset, the Chairman wished New Year greetings and welcomed the members to the 76th meeting of the Senate.

The Chairman thanked and placed on record the valuable contributions of the following outgoing members in the meetings of the Senate:

1. Prof. Anil Kumar, Department of Chemistry
2. Prof. V.K. Katiyar, Department of Mathematics
3. Prof. Bikash Mohanty, Department of Chemical Engineering
4. Prof. M.K. Pathak, Associate Dean Infrastructure (Electrical & A.C.)

The Chairman also welcomed the following new members of the Senate and wished for their active participation in the proceedings of the Senate:

1. Prof. Mahua Mukherjee
2. Prof. Prabhjot Singh Chani
3. Prof. Ashwani Kumar Sharma
4. Prof. Bijan Choudhary
5. Prof. Pravindra Kumar
6. Prof. Sanjay Ghosh
7. Prof. K.R. Justin Thomas
8. Prof. R.K. Peddinti
9. Prof. Kaushik Ghosh
10. Prof. Jeevandam P.
11. Prof. Rajat Rasgoti

12. Prof. Umesh Kumar Sharma
13. Prof. Anupam Chakraorti
14. Prof. Bhupinder Singh
15. Prof. Rahul Dev Garg
16. Prof. Sugata Gangopadhyay
17. Prof. R. Balasubramanian
18. Prof. Durga Toshniwal
19. Prof. Sudeb Das Gupta
20. Prof. N.P. Pathak
21. Prof. M.K. Jain
22. Prof. Zillur Rahman
23. Prof. Anil Kumar Sharma
24. Prof. Apurbba Kumar Sharma
25. Prof. Indra Vir Singh
26. Prof. K. Murugesan
27. Prof. Manish Mishra
28. Prof. P.M. Pathak
29. Prof. S.P. Harsha
30. Prof. Gajanan Prabhakar Chaudhuri
31. Prof. Vipul Rastogi
32. Prof. Alok Mishra
33. Prof. Ganesh Kumbhar, Associate Dean Infrastructure (Electrical & A.C.)

The Senate noted the communications received from the following members for their inability to attend the meeting:

1. Prof. Ravi Kumar, Department of Mechanical & Industrial Engineering
2. Prof. Dharm Dutt, Department of Pulp & Paper
3. Prof. B. Prasad, Department of Chemical Engineering
4. Prof. Shishir Sinha, Department of Chemical Engineering

The agenda was then taken up.

Item No. 76.1: To confirm the minutes of the 75th meeting of the Senate held on 01.10.2018.

The minutes of the 75th meeting of the Senate held on 01.10.2018, circulated vide e-mail dated 12.11.2018, were confirmed,

Item No. 76.2: To report on the actions taken to implement the decisions of the Senate taken in its 75th meeting held on 01.10.2018.

The Senate noted the actions taken on the said minutes.



Item No. 76.3: To consider the proposal regarding addition of Exceptional 3rd to 5th year UG Students as Teaching Assistants (UGTA) for the courses of first year.

The Senate approved the proposal of having UGTAs with the following provisions:

3rd – 5th year UG students are eligible for becoming UGTAs. A department using UGTAs should have a process to select them from among the interested students. On similar lines, a department using PG (this includes Ph.D. students) students to conduct UG tutorials should have a process to select them from among interested PG students. A UGTA is allowed to conduct tutorial classes of 1st year only. The concerned teacher should keep track of the performance of TAs and UGTAs involved in conducting tutorial classes. At the end of the semester, students' feedback of such TAs and UGTAs should also be taken and shared with them. The responsibility for good and effective conduct of the course will continue to be that of the concerned teacher.

Item No. 76.4: To consider the proposal to waive off attendance requirement for the students who received F grade and are repeating the course.

The Senate approved waiving off of the attendance requirement for lecture classes only.

Item No. 76.5: To consider the proposal to amend the Regulation 31(a) of Academic Programmes Regulations for UG regarding withdrawal from course.

The Senate approved the proposal and extended the same to M.Tech. & Ph.D. students also. Further, 'withdrawal' grades will not be recorded on the transcript.

Item No. 76.6: To consider the proposal of allowing up to 2 courses (maximum 8 credits) PECs from sister Departments in UG curriculum.

The Senate approved the proposal if both, DAPC of the department to which the student belongs and Coordinator of the course to be taken consent.



Item No. 76.7: To consider the Report of Unfair Means Rules Committee.

The Senate approved the proposal as given in Appendix 'A'.

Item No. 76.8: To consider the proposal to amend the Regulation 18(2) of Academic Programmes Regulations for UG regarding restrictions on subject registration in current semester with backlog papers.

The Senate approved the proposal.

Item No.76.9: To consider the proposal of Department of Electrical Engineering to discontinue the core course EEN-310 (General Viva).

The Senate approved the proposal with effect from the current semester.

Item No.76.10: To consider the proposal of Department of Management Studies to allow all graduates for MBA Admission at IIT Roorkee.

The Senate approved the following eligibility criteria for admission in MBA programme:

Graduates, or a professional qualification equivalent to that of a University degree recognized by UGC, in any discipline with minimum 60% marks (55% marks for SC/ST/PD).

Item No.76.11: To consider the following Structure & Syllabi of all courses for III, IV and V year of Integrated M.Sc. (Chemistry) proposed by the Department of Chemistry:

CYN-301: Quantum Chemistry and Chemical Bonding
CYN 303: Advanced Coordination Chemistry
CYN-305: Organic Chemistry III
CYN-311: Laboratory I
CYN-302: Group Theory and Spectroscopy
CYN-304: Solid State Chemistry and Applications
CYN-306: Organic Chemistry IV
CYN-312: Laboratory II
CYN-515: Art of Scientific/Technical Writing
CYN-521: Advanced Analytical Methods
CYN-523: Organic Chemistry V
CYN-525: Advanced Molecular Spectroscopy
CYN-531: Laboratory III
CYN-522: Materials Chemistry

CYN-524: Frontier Inorganic Chemistry
CYN-526: Organic Chemistry VI
CYN-532: Laboratory IV

Senate approved the proposal.

Item No.76.12: To consider the proposal of Department of Electronics and Communication Engineering to change the eligibility criteria for admission to M.Tech. (Microelectronics and VLSI), to B.Tech./B.E.(Electronics and Communication Engg. or equivalent, M.Sc. (Physics)/ (Electronics) or equivalent with a valid GATE score in EC/ Physics streams.

The Senate approved the proposal.

Item No.76.13: To consider the recommendation of DFC of Department of Chemistry to close the M.Tech. (Advanced Method of Chemical Analysis) programme due to poor inflow of the students and placement record.

The Senate approved the proposal.

Item No.76.14: To consider the proposal for admission of IIT graduates (with CGPA 8 and above) over and above the sanctioned intake for M.Tech. programme from the year 2019 onwards.

The Senate approved the proposal.

Item No. 76.15: To consider the modification in Ph.D. Forms in line with the decisions taken in recent Senate meetings.

The Senate authorized IRC/IAPC to approve the forms as per the decisions of the Senate. Approval, so accorded, be reported to the Senate.

Item No. 76.16: To consider Part-II: Ph.D. Procedures as proposed by Prof. Manish Shrikhande Committee on Ph.D. Rules & Regulations.

The item was deferred.

Item No.76.17: To consider merging of Oral Comprehensive examination with Research Proposal presentation as a part of candidacy for Ph.D. Programme.

The item was deferred.



Item No. 76.18: To consider Models for Collaborative Doctoral Programmes with Foreign Universities.

The Senate approved the proposal as given in Appendix 'B'.

Item No. 76.19: To consider the proposal of renaming the Alternate Hydro Energy Centre as Hydro and Renewable Energy Department.

The Senate accepted the proposal and recommended it to the Board for approval.

Item No. 76.20: To consider the case of missing ETE answer scripts of two students of a course in Autumn Semester (2018-19).

The Senate took a very serious note of the matter and desired that a strong message be sent to prevent recurrence of any such lapse in future. Further, the Senate approved the recommendations of the IAPC.

Item No. 76.21: To consider the requests/appeals from following students regarding continuation of programme in spite of not fulfilling the minimum earned credit requirement.

1. Mr. Bhethala Sai Sujith (Enr No. 17119011), B.Tech. (PI)
2. Mr. Bhukya Bhargav (Enr No. 17115027), B.Tech. (EE)

The Senate did not accept the appeals.

Item No. 76.22: To consider the mercy petition of Mr. Dipanshu Chaudhry (Enr No. 10113034), B.Tech. Civil Engg. for re-enrolment and registration for balance credits to complete the degree requirement.

The Senate accepted the appeal of Mr. Dipanshu Chaudhry.



Item No. 76.23: To consider the mercy appeal of following students regarding continuation of studies in spite of not meeting the criteria of minimum earned credits:

S.No.	Name	Enr No.	Programme	Year
1.	Nitish Kumar	16115079	B.Tech. (EE)	III
2.	MamtaMeena	14115069	B Tech. (EE)	IV
3.	VedangPatidar	14118107	B.Tech. (MT)	IV
4.	JaikantNiwariya	16116024	B.Tech. (ECE)	III
5.	Bhargab Das	14411006	B.Tech. (MT)	IV
6.	BathulaHemanth	14118021	B.Tech. (MT)	IV
7.	HarshitChoudhary	16116022	B.Tech. (ECE)	III
8.	Rishi Kant Kala	16115096	B Tech. (EE)	III
9.	Bheemsen Saran	15113032	B Tech. (CE)	IV

The Senate did not accept the appeals.

Item No. 76.24: To consider the requests of 1st year M.Tech./M.Sc. students regarding continuation of programme in spite of not fulfilling minimum SGPA.

The Senate accepted the following appeals:

S. No.	Name	Enr No.	Programme
1.	Myat Sithu Lwin	18541014	M.Tech. (ME) (International Student)
2.	Chalachew Dagnew Yehuala	18538011	M.Tech. (ME) (International Student)
3.	Chan Aye Aung	18530019	M.Tech. (EE) (International Student)
4.	Mushar Kishan Lakhabhai	18530012	M.Tech. (EE) (Indian Student)
5.	Rahul Tripathi	18512016	M.Tech. (AH) (Indian Student)
6.	Anil Gautam	18519001	M.Tech. (CE) (Indian Student)
7.	Farhad Khiabani	18519004	M.Tech. (CE) (International Student)
8.	Ismail Ahmed Aden	18548034	M.Tech. (WR) (International Student)
9.	Nitin Saini	18537014	M.Tech. (Hydrology)

Item No.76.25: To consider the seat matrix for PG (M.Tech./M.Arch./MURP) admission for the session 2019-20.

The Senate approved the seat matrix for Masters' programmes for the session 2019-20 as given in **Appendix 'C'**.

Item No.76.26: To consider the proposal for Excellence in Doctoral Research awards.

The Senate approved the proposal with the following changes:

- (1) Any student getting Ph.D. degree in the Convocation will be eligible to apply if recommended by his/her supervisor.
- (2) All the reports of the examiners, alongwith their names and affiliations, will be shared by the Academic Affairs Office with the screening as well as the final committee.
- (3) The overall recommendation will depend on the quality and quantum of publications, novelty of the work, contribution and understanding of the student, reports and standing of the examiners, potential for industrial applications etc.

Item No.76.27: To consider a proposal for converting Bagchi Gold Medal into Bagchi MCM

The Senate approved the proposal.

Item No.76.28: To consider a proposal for Gold Medal for the Annual Convocation 2018.

The Senate approved the proposal.

Item No. 76.29: To report approvals accorded by the Chairman Senate on various scholarships and awards etc.

The Senate noted the item.

Item No.76.30: To report approvals accorded by the Chairman Senate.

The Senate noted the item.

Item No.76.31: To ratify the award of provisional Ph.D. Degree certificates to the students who have completed the requirements for the award of Ph.D. Degree in various disciplines w.e.f. 01.10.2018 to date.

The Senate ratified the item as given in **Appendix 'D'**.

The meeting ended with a vote of thanks to the Chair.

Appendix 'A'
Item No. Senate/76.7

Proposed Guidelines: Punishment for using unfair means during examinations (MTE/ETE)

Severity of Offence	Details	1 st offence	2 nd offence
Level 1	<ul style="list-style-type: none"> If a student is found carrying un-authorised material like chits, electronic gadgets like tablets, calculators, mobile phone etc. If a student is found verbally communicating with another student inside or outside the examination room. 	Warning to be issued to the concerned student.	Penalty of one grade point in the concerned course.
Level 2	<ul style="list-style-type: none"> A student is found using a mobile phone, chits, books or other unauthorized material. Identical answers in the examination. Answer Script / Question paper carried out of the examination room during/after the examination.* 	Zero marks to be awarded to the student in the concerned examination (MTE/ETE).	Semester Backlog i.e. the running semester will be dropped.
Level 3	<ul style="list-style-type: none"> Impersonation. Answer Script / Question paper carried out of the examination room during/after the examination.* 	Semester Backlog in the running semester. In addition to this, the student will be allowed to register only for 8 credits in the next semester.	Expulsion from the institute.

Cases not covered above to be dealt by the committee.

*Level of the offence (Level 2 or 3) to be decided by the committee.

Note: On repetitive offence after 2nd offence in levels 1 and 2 the case would be considered under the offence of immediate next level.



UNFAIR MEANS USAGE REPORTING FORM INDIAN INSTITUTE OF ROORKEE

Note: A separate sheet should be used for each student.

PART - A (To be filled by the invigilator)

- (1) Name of examination: MTE/ETE
- (2) Enrolment No. of the student.....
- (3) Name of the student.....
- (4) Course code and name in which the candidate is reported to have used or intended to use unfair means.....
- (5) Day.....Date.....Time.....
- (6) Item(s) found in possession of the student (to be submitted along with the answer script)
Books/Papers/Electronic Gadget/Any other to be specified
- (7) Comments, if any:

Date.....

Time.....

(Signature of the Invigilator)

PART - B (To be filled by the student after the submission of the answer script at the end of the examination)

- (1) Were the above articles recovered from your possession?

- (2) Did you make use of them?

- (3) Comments, if any

Date.....

Time.....

(Signature of the student)

Instructions overleaf

Instructions

1. The main instructions for the conduct of a student in the examination hall shall be printed on the cover page of the answer book. Any contravention of these instructions and the use of any unfair means will render the student liable for punishment.
2. In case of unfair means being suspected by the invigilator, the reporting to the Dean of Academic Affairs will be carried out as per form UF-0 and the student will be allowed to complete the examination in the same answer script.
3. A committee appointed by the Director shall enquire into cases of attempt at unfair means in the examination. The student will be given an opportunity to present his/her case before the committee. The committee shall decide the level of the offence (as per the Table) and submit its recommendation to the Director for consideration.



The following institutes have proposed to have collaborative degree programmes with IIT Roorkee

- 1) Lulea university of technology, Sweden
- 2) University of Strasbourg, France
- 3) Swinburne University, Australia
- 4) University of Alberta, Canada
- 5) The French network of doctoral schools (REDOC-SPI)

It is proposed that we shall start with the doctoral programmes with the models suggested below. The MoUs with the interested institutes shall be signed with additional clauses decided on a case-to-case basis by IRC.

Models for Collaborative Doctoral Programmes with Foreign Universities

A. Joint Degree

1. Students must meet the admission requirements and need to complete the degree requirements of their home institution.
2. They will receive the degree only from their home institution with a remark that the program has been completed jointly with the host institution.

B. Dual Award Degree

1. Students must meet the admission requirements and complete the degree requirements of both the institutions.
2. They receive a separate degree from both the institutions.

Conditions common for both of the above models

1. Students must have a supervisor at each institution.
2. They must spend minimum 6 months over the entire duration of the program at the host institution.
3. They shall pay tuition fee at the home institution only.



Appendix 'C'

Item No. Senate/76.25

Proposed Seat PG Admission 2019-20

S.No	Academic Department/ Centre & (Code)	Academic Programmes		Main Gate Discipline(s)					Other GATE Disciplines					Total Intake	Total Existing Seats
		Name	Gate Code	Discipline Code	GEN	OC	SC	ST	Gate Code	Discipline Code	GEN	OC	SC		
1	Architecture and Planning (ARD)	M.Arch.	10	AR(12)	6	3	2	1	-	-	-	-	-	23	12
		M.U.R.P.	11	AR(9)	5	2	1	1	CE(2)	-	1	1	0	0	11
2	Alternate Hydro Energy Centre (AHC)	M.Tech. Alternate Hydro Energy Systems	12	CE(2)	1	1	0	0	AG/CH/EE/EC/ME/PI/XE (13)	-	6	4	2	1	15
		M.Tech. Environmental Management of Rivers and Lakes	13	CE(3)	1	1	1	0	AG/CH/EE/ME/PI/XE/AR/CY/BI/PH/MA/XL/EY(7)	-	3	2	1	1	10
3	Chemical Engineering (CHD)	M.Tech. Chemical Engineering	14	CH(20)	10	5	3	2	-	-	-	-	-	20	20
4	Civil Engineering (CED)	M.Tech. Environmental Engg.	16	CE(9)	5	2	1	1	CH(2)	-	1	1	0	0	11
		M.Tech. Geomatics Engg.	17	CE(7)	3	2	1	1	AR/CS/EC/EE/AG/MN(7)	-	4	2	1	0	14
		M.Tech. Geotechnical Engg.	18	CE(13)	7	3	2	1	MN (2)	-	1	1	-	-	15
		M.Tech. Hydraulic Engg.	19	CE(11)	5	3	2	1	-	-	-	-	-	-	11
		M.Tech. Structural Engg.	20	CE(21)	10	6	3	2	-	-	-	-	-	-	21
		M.Tech. Transportation Engg.	21	CE(14)	7	4	2	1	-	-	-	-	-	-	14
														86	
5	Earthquake Engineering (EQD)	M.Tech. Soil Dynamics	22	CE(11)	5	3	2	1	-	-	-	-	-	-	11
		M.Tech. Structural Dynamics	23	CE(18)	9	5	3	1	-	-	-	-	-	-	18
		M.Tech. Seismic Vulnerability and Risk Assessment	24	CE(10)	5	3	1	1	-	-	-	-	-	-	10
6	Electrical Engineering (EED)	M.Tech. Electric Drives & Power Electronics	25	EE(15)	8	4	2	1	-	-	-	-	-	-	15
		M.Tech. Instrumentation and Signal Processing	26	EE(9)	5	2	1	1	EC/IN(5)	-	3	1	1	0	14
		M.Tech. Power System Engg.	27	EE(15)	8	4	2	1	-	-	-	-	-	-	15
		M.Tech. Systems and Control	28	EE(11)	5	3	2	1	EC/IN(3)	-	1	1	1	-	14
7	Electronics and Communication Engineering (ECD)	M.Tech. Communication Systems	29	EC(12)	6	3	2	1	-	-	-	-	-	-	12
		M.Tech. R.F. & Microwave Engg.	30	EC(9)	5	2	1	1	-	-	-	-	-	-	9
		M.Tech. Microelectronics and VLSI	31	EC(10)	5	3	1	1	-	-	-	-	-	-	10
8	Computer Science and Engineering (CSD)	M.Tech. Computer Science & Engg	32	CS(30)	16	8	4	2	-	-	-	-	-	30	30
9	Hydrology (HYD)	M.Tech. Hydrology	33	CE/AG(18)	9	5	3	1	GG/XE/PH/ EY(3)	-	1	1	0	1	21
10	Mechanical and Industrial Engineering (MED)	M.Tech. CAD, CAM & Robotics	34	ME/PI(10)	5	3	1	1	-	-	-	-	-	-	10
		M.Tech. Machine Design Engg.	35	ME/PI(12)	6	3	2	1	-	-	-	-	-	-	12
		M.Tech. Production & Industrial Systems Engg.	36	ME/PI(12)	6	3	2	1	-	-	-	-	-	-	12
		M.Tech. Thermal Engg.	37	ME/PI(11)	5	3	2	1	-	-	-	-	-	-	11
		M.Tech. Welding Engg.	38	ME/PI(11)	5	3	2	1	-	-	-	-	-	-	11
11	Metallurgical and Materials Engineering (MTD)	M.Tech. Industrial Metallurgy	39	MT(4)	2	1	1	0	ME/PI/XE (7)	-	3	2	1	1	11
		M.Tech. Materials Engg.	40	MT(4)	2	1	1	0	PH/ME/PI/CY/XE (7)	-	3	2	1	1	11
12	Paper Technology Saharanpur Campus (PPD)	M.Tech. Pulp & Paper	41	CH(8)	4	2	1	1	ME/BI/TF/EY (4)	-	2	1	1	0	12
		M.Tech. Packaging Technology	42	CH(7)	3	2	1	1	BT/CY/ME/TF (5)	-	3	1	1	0	12
13	Water Resources Development and Management (WRD)	M.Tech. Irrigation Water Management	43	CE/AG(8)	4	2	1	1	-	-	-	-	-	-	8
		M.Tech. Water Resources Development	44	CE/EE/ME (12)	6	3	2	1	-	-	-	-	-	-	12
14	Chemistry (CYD)	M.Tech. Advanced Methods of Chemical Analysis	45						dropped						
15	Physics (PHD)	M.Tech. Solid State Electronic Materials	46	PH(7)	3	2	1	1	EE/EC/MT (3)	-	1	1	1	0	10
		M.Tech. Photonics	47	PH(7)	3	2	1	1	EE/EC/MT/IN (3)	-	1	1	1	0	10
16	Nanotechnology (NTC)	M.Tech. Nanotechnology	48	MT/ME/EC/CH/BI/CE (5)	3	1	1	0	CY/PH/XL (5)	-	2	1	1	1	10
17	Disaster Mitigation and Management (DMC)	M.Tech. Disaster Mitigation and Management	49	CE(5)	2	1	1	1	ME/PI/CS/CH/AR/G/PH/MA/XL/XE/EY/BI (5)	-	3	1	1	0	10
18	Transportation Systems (TSC)	M.Tech. Infrastructure Systems	50	CE(2)	1	1	0	0	ME/PI/CH/EE/EC/C/BI/AR (8)	-	4	2	1	1	10
19	Biotechnology (BDT)	M.Tech. Bioprocess Engineering	51	CH (5)	3	1	1	0	BT/AG/XE/TF (5)	-	2	1	1	1	10
															515

I Senate Approved 2019 PDC 28 List:

S. No.	Name	Deptt.	Topic	Supervisor	Examiner (For./Ind.)	PDC Date
1	Mr. Amit Kumar	ASE	MANGANESE BASED CARBONATES AND OXIDES AS ELECTRODE MATERIALS FOR ENERGY STORAGE DEVICES	Prof. Yogesh Kumar	Prof. V. Thangadurai, University of Calgary, Canada Prof. A. Chandra, IIT Kharagpur Prof. Sagar Mitra, IIT Bombay	18.12.18
2	Mr. Tamoghna Ghosh	BT	MOLECULAR INVESTIGATIONS AND APPLICATIONS OF SELECTED GRAS MOLECULES FOR ANTIBACTERIAL AND ANTICANCER EFFECTS	Prof. N. K. Navani	Prof. Salam A. Ibrahim, N.C.A.T.S. University, USA Prof. Bishwajit Kundu, IIT Delhi Prof. R. K. Sharma, DFRL Mysore	06.12.18
3	Mr. Navdeep Raghuvanshi	BT	BIOGENIC NANOPARTICLES: SYNTHESIS, CHARACTERIZATION AND ITS APPLICATIONS	Prof. Vikas Pruthi	Prof. Jagat R. Kanwar, Deakin University, Australia Prof. Kanchan Kohli, JH Delhi	30.11.18
4	Mr. Madhusudhanarao Katiki	BT	STRUCTURAL AND BIOCHEMICAL CHARACTERIZATION OF PROTEIN DRUG TARGETS FROM HUMAN PATHOGENS	Prof. Pravindra Kumar	Prof. D. Golemi-Kotra, York University, Canada Prof. S. Gourinath, JNU Delhi Prof. R. K. Dhaked, DRDO Gwalior	19.12.18
5	Mr. Swapna K. Srivastava	BT	PRODUCTION OF POLYHYDROXYALKANOATES BY HALOPHILIC BACTERIA	Prof. Bijan Choudhury	Prof. S.C. Napathorn, Chulalongkorn University, Thailand Prof. N. Mallick, IIT Kharagpur	27.12.18
6	Mr. Lovjeet Singh	CH	TREATMENT OF NITROGENOUS AROMATIC COMPOUNDS CONTAMINATED WATER BY CATALYTIC WET PEROXIDE OXIDATION	Prof. Shri Chand	Prof. J. Garcia, Complutense Madrid University, Spain Prof. Anurag Garg, IIT Bombay	30.11.18
7	Mr. Hitesh Upreti	CE	MODELLING SOIL MOISTURE DYNAMICS IN CROPPED AREA FOR IRRIGATION SCHEDULING	Prof. C. S. P. Ojha	Prof. Suat Irmak, Nebraska-Lincoln University, USA Prof. M.S. Mohan K., IISc Bangalore	30.11.18
8	Ms. Astha Verma	CE	WIND PRESSURE DISTRIBUTION ON LOW-RISE BUILDINGS WITH VARYING ROOF FORMS	Prof. P. K. Gupta Prof. A. K. Ahuja	Prof. Partha P. Sarkar, Iowa State University, USA Prof. Rajeev K. Garg, CSIR Delhi Prof. Sudip Talukdar, IIT Guwahati	13.11.18
9	Ms. Sapna	CY	COMPUTATIONAL STUDIES OF OPTICAL PROPERTIES OF SOME SILICON NANOSTRUCTURES	Prof. P. P. Thankachan Prof. Pallavi Debnath	Prof. Aristides D. Zdetsis, Patras University, Greece Prof. Biswarup Pathak, IIT Indore	27.12.18
10	Ms. Ruchi Lamba	CTS	SOLID PHASE HETEROGENEOUS CATALYTIC ESTERIFICATION OF DECANOIC ACID WITH ALCOHOLS	Prof. Sudipta Sarkar Prof. Surendra Kumar	Prof. Merv Fingas, Ottawa University, Canada Prof. Avinash K. Agarwal, IIT Kanpur	27.12.18
11	Ms. Rajni Devi	ES	GEOELECTRIC AND GEOTECHNICAL SITE INVESTIGATIONS FOR SOIL LIQUEFACTION STUDIES	Prof. R. G. Sastry Prof. N. K. Samadhiya	Prof. Phan Huy Giao, Asian Institute of Tech., Thailand Prof. D. Choudhary, IIT Bombay Prof. G. L. Sivakumar, IISc Bangalore	30.11.18
12	Ms. Smita Kaloni	EQ	OUTPUT-ONLY SYSTEM IDENTIFICATION USING BLIND SOURCE SEPARATION	Prof. M. Shrikhande	Prof. Ahmed Ghobarah, McMaster University, Canada Prof. C. S. Manohar, IISc Bangalore Prof. S. R. Chaudhuri, IIT Kanpur	15.10.18
13	Mr. Hanwate Sandeep Devrao	EE	APPROACHES OF PID CONTROLLER DESIGN WITH APPLICATIONS AND EXPERIMENTAL VALIDATION	Prof. Yogesh Vijay Hote	Prof. Matthew Joordens, Deakin University, Australia Prof. Somnath Pan, IIT Dhanbad	30.11.18
14	Mr. Yogesh Kumar Manibhai Makwana	EE	PROTECTION OF DISTRIBUTION SYSTEMS DURING DISTRIBUTED GENERATORS ENVIRONMENT	Prof. Bhavesh R. Bhalja	Prof. Tarlochan S. Sidhu, Ontario University, Canada Prof. K. Shanti Swarup, IIT Madras Prof. A. K. Pradhan, IIT Kharagpur	01.11.18

15	Mr. Guruswamy K. P.	EE	ANALYSIS AND CONTROL OF BIDIRECTIONAL DC-DC CONVERTERS	Prof. S. P. Singh	Prof. Ashoka K.S. Bhat, Victoria University, Canada Prof. Bhim Singh, IIT Delhi	10.12.18
16	Mr. Pankaj K. Gupta	HY	MULTI-SCALE FATE AND TRANSPORT OF LNAPL UNDER VARYING SUBSURFACE FLOW CONDITIONS	Prof. Brijesh K. Yadav	Prof. Chittaranjan Ray, Nebraska University, USA Prof. Shashi Mathur, IIT Delhi	30.11.18
17	Mr. Arvind Kumar	IIC	SYNTHESIS OF NANOSTRUCTURED THIN FILMS FOR GAS SENSING APPLICATIONS	Prof. Ramesh Chandra	Prof. Chintalapalle V. Ramana, Texas El at Paso Univ., USA Prof. Bodh Raj Mehta, IIT Delhi Prof. Sujeet Chaudhary, IIT Delhi	16.11.18
18	Ms. Soshal	MA	FOURIER SERIES APPROXIMATION OF FUNCTIONS IN $L_p(p \geq 1)$ SPACES	Prof. Uday Singh	Prof. Billy E. Rhoades, Texas El at Paso University, USA Prof. A. Prasad, IIT Dhanbad Prof. H. H. Khan, Aligarh	15.11.18
19	Mr. Amit Sharma	MA	A STUDY OF SKEW CODES AND QUANTUM CODES OVER SOME FINITE RINGS	Prof. Maheshanand	Prof. Nuh Aydin, Indiana University, USA Prof. Anuradha Sharma, IIT Delhi	01.11.18
20	Mr. Vikram Singh	MA	EXISTENCE AND CONTROLLABILITY RESULTS TO SOME FUNCTIONAL DIFFERENTIAL SYSTEMS	Prof. D. N. Pandey	Prof. N. Mahmudov, Eastern Mediterranean Univ., Turkey Prof. Shruti Dubey, IIT Madras Prof. D. Bahuguna, IIT Kanpur	18.12.18
21	Mr. Teekam Singh	MA	SPATIAL ASPECTS OF SOME TUMOR-IMMUNE AND ECOLOGICAL MODELS	Prof. Sudip Banerjee	Prof. Ezio Venturino, Torino University, Italy Prof. Malay Banerjee, IIT Kanpur Prof. S.P.Chakrabarty, IIT Guwahati	20.12.18
22	Mr. Kalu Ram Meena	MA	SOME PROBLEMS ON ESTIMATION AFTER SELECTION	Prof. A. Gangopadhyay	Prof. Nutan T. Mishra, South Alabama University, USA Prof. Somesh Kumar, IIT Kharagpur Prof. Neerak Misra, IIT Kanpur	17.10.18
23	Mr. Lokesh Kumar	MIE	MODELING OF CARBON COMPLIANT SUPPLY CHAIN NETWORK FOR TYRE REMANUFACTURING INDUSTRY	Prof. P. K. Jain Prof. A. K. Sharma	Prof. Yoshiro Fukuda, Hosei University, Japan Prof. Manoj K. Tiwari, IIT Kharagpur Prof. U. Shanker Dixit, IIT Guwahati	12.12.18
24	Prof. Rituraj Singh	MIE	IMPROVED MLPG METHOD FOR LARGE SCALE HEAT TRANSFER PROBLEM	Prof. K. M. Singh	Prof. Satya N. Atluri, Texas Tech. University, USA Prof. Sandeep Kumar, IIT Varanasi	18.12.18
25	Mr. Guru Prakash	MME	SURFACE MODIFICATION OF MARTENSITIC STAINLESS STEELS FOR HYDROTURBINE BLADES	Prof. S. K. Nath	Prof. Chandan Mahato, Seymour Technical Center, USA Prof. Bikramjit Basu, IISc Bangalore Prof. Sunil Mohan, IIT Varanasi	27.12.18
26	Ms. Priti	PH	ELECTRON SCATTERING FROM ATOMS (IONS) AND PLASMA MODELING	Prof. Rajesh Srivastava	Prof. Yuri Ralchenko, National Inst. of Standards Tech., USA Prof. P. C. Deshmukh, IIT Tirupati	30.11.18
27	Ms. Archana	PPE	EVALUATION OF CADAVER GOAT- DERMIS AS SCAFFOLD FOR SKIN TISSUE ENGINEERING	Prof. S. C. Sharma	Prof. R. Sridaran, Morehouse School of Medicine, USA Prof. Dheer Singh, NDRI Kamal Prof. Rakesh K. Tyagi, JNU Delhi	06.12.18
28	Mr. Tesfamariam Abreha Bahita	WRDM	WATER QUALITY ASSESSMENT AND POLLUTION STATUS OF UPPER GANGA CANAL	Prof. Ashish Pandey Prof. P. K. Jha	Prof. Nicola Fohrer, Kiel University, Germany Prof. K. N. Tiwari, IIT Kharagpur Prof. P. K. Khan, IIT Dhanbad	18.12.18