सीनेट की सतासिवीं बैठक का कार्यवृत्त

MINUTES OF THE 87th MEETING OF THE SENATE

28 जुलाई 2021 28th JULY 2021



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

भारतीय प्रौद्योगिकी संस्थान रूड़की

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

रूड़की 247 667

ROORKEE - 247 667



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INDIAN INSTITUTE OF TECHNOLOGY ROORKEE MEETING SECTION



Minutes of the 87th Meeting of the Senate held on 28.07.2021 at 04.00 P.M. over WebEx.

The list of participants who attended the meeting is appended at **Annexure-I.**

At the outset, the Chairman welcomed the members to the 87^{th} meeting of the Senate.

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

- 1. Prof. R.P. Singh, Department of Biotechnology
- 2. Prof. S.P. Singh, Department of Electrical Engineering

The Chairman also thanked and placed on record the valuable contributions of the previous Dean of Academic Affairs Prof. N.P. Padhy. The Chairman welcomed the following members of the Senate in their new capacities and wished for their active participation in the proceedings of the Senate:

- 1. Prof. Apurbba Kumar Sharma, Dean of Academic Affairs
- 2. Prof. A. Swaminathan, Associate Dean of Academic Affairs (IT Systems and Admission)

Following were the students' representatives in their first Senate meeting.

- 1. Mr. Manu Garg, General Secretary, Hostel Affairs
- 2. Ms. S. Divyasri Lakshami Malavika, General Secretary, Academic Affairs (UG)
- 3. Mr. Naveen Kumar Sharma, General Secretary, Academic Affairs (PG)
- 4. Mr. Manan Monga nominated by Executive Committee of the Students' Senate

The following members conveyed their inability to join the meeting:

- 1. Prof. Sunil Bajpai, Department of Earth Sciences
- 2. Prof. M.L. Kansal, WRDM



- 3. Prof. Murugesan Krishnan, Department of Mechanical & Industrial Engineering
- 4. Prof. Nagendra Kumar, Department of Humanities & Social Sciences
- 5. Prof. K.M. Singh, Department of Mechanical & Industrial Engineering
 The agenda was then taken up.
- Item No. 87.1: To confirm the minutes of the 86th Senate meeting held on 09.02.2021.

The Senate confirmed the minutes as circulated on 01.03.2021.

Item No.87.2: To report on the actions taken to implement the decisions of the Senate taken in its 86th meeting held on 09.02.2021.

The Senate noted the actions taken on the minutes.

Item No. 87.3: To consider the revised report of the committee constituted to review the current thesis evaluation process for M.Tech./IMT/IDD.

The Senate considered and decided that the committee may review its report in the light of suggestions given by the members on the floor such as on the involvement of supervisors in the evaluation process, distribution of marks for grading at both the stages, inclusion of marks for publication/patent/standards etc.

The revised report will be placed before the Senate for consideration.

Item No. 87.4: To consider the acceptance of Second Class Degree of B.E./B.Tech with 55% and above score with respect to the officers of Indian Army for M.Tech./M.Arch./MURP admission.

The Senate did not accept the proposal.

Item No. 87.5: To consider the proposal of Department of Hydro and Renewable Energy to introduce minor specialization in Renewable Energy Technology across all the branches of B.Tech. and B.Arch.

The Senate approved the proposal as given at **Appendix-A.** Further, it was agreed to extend this provision to all the programs which admit students through JEE (Advanced).

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Item No. 87.6: To consider the proposed UG Seat Matrix for the admission session 2021-22 and to consider the proposal of Department of Chemical Engineering to discontinue the B. Tech. (Polymer Science & Engineering) program from the academic year 2021-22 onwards.

The Senate accepted the proposal of the Department of Chemical Engineering to discontinue the B. Tech. (Polymer Science & Engineering) program with effect from the academic year 2021–22.

The Senate approved the following Seat Matrix for UG admission 2021-22 as recommended by the IAPC:

Program	Strength	
AR	37	
BE	46	
СН	127	
CE	194	
CS	109	
EE	165	
EC	109	
ME	150	
MT	92	
PH	50	
PI	58	
IMT-GT	38	
IMT-GP	41	
IMS-AM	42	
IMS-CY	35	
IMS-PH	27	
MS-ECO	33	
Total	1353	

Further, depending on the proposals which may be received from some departments as mentioned during the discussion on this item, the Senate authorized the Chairman, Senate to approve changes in the above UG seat matrix, without making any change in the total number of seats (1353).

Item No. 87.7 To consider the report of the committee constituted to examine the request of Mr. Praveen Badavath, a UG student of IIT Ropar, seeking transfer to IIT Roorkee.

The Senate considered the report and decided against accepting the request of Mr. Praveen Badavath.



Item No. 87.8: To consider the request of Ms. Pallavi Kaushik (Enr. No. 17911005), Ph.D. student, Department of Computer Science and Engineering for approving a double degree agreement between IIT Roorkee and the University of Groningen (RUG), the Netherlands.

The Senate considered the recommendation of the IRC to sign the double degree agreement between IIT Roorkee and the University of Groningen (RUG), Netherlands, as requested by Ms. Pallavi Kaushik, and approved the same.

Item No. 87.9: To consider the recommendation of Department of Design to start Ph. D. programme in the Department and to allocate 70 Ph. D. seats with Institute Assistantship.

The Senate considered and approved the proposal of the Department of Design to start the Ph.D. program.

The Senate further decided that the number of Ph.D. seats with Institute Assistantship for a Department/Centre be calculated as two seats against each Joint Faculty and five seats against the faculty members for whom it is the parent Department/Centre.

Further, the senate approved the proposed Minimum Educational Qualification (MEQ) after dropping M.Phil, from the list.

- Item No. 87.10: To consider formulating an Exit Policy in different programs in view of the following:
 - (a) Department of Electronics & Communication Engg. requested to create a provision for exit degree ("Executive M.Tech. (VLSI)") after the completion of 40 credits of courses and seminar in M Tech (VLSI) for Industry Professionals.
 - (b) Dr. Nikhat Parvez, a passed-out Ph.D. student of IIT Roorkee, requested to issue an additional degree, equivalent to Master's degree.
 - (a) The Senate considered the item and decided that a committee be constituted by Chairman Senate so as to create a proposal for a comprehensive 'Exit Policy' for our academic programs. The proposed policy be placed before the Senate for consideration.
 - (b) The Senate decided against accepting the request of Dr. Nikhat Parvez.

Item No. 87.11: 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. 02.02.2021 to date.

The Senate ratified the item as given in Appendix-B.

- Item No. 87.12: To report the approvals accorded by the Chairman, Senate.
 - (a) Recommendations of 99th (emergency), 100th (emergency), 101st, 102nd, 103rd (emergency), 104th, 105th, 106th (emergency) and 107th meetings of IAPC.
 - (b) Recommendations of 38th, 39th, 43rd, 44th, 45th and 46th meeting of IRC.
 - (c) Recommendations of SCSP.

The Senate noted the items.

Item No. 87.13: To consider a tie-breaking method for the awards/prizes to be given solely based on academic performance.

The Senate considered the item and decided that in the case of a tie in CGPA based awards/prizes, the award/prize be given to all the students whose CGPA is tied.

Item No. 87.14: To consider the revised proposal of Department of Management Studies to introduce Executive MBA (EMBA) program.

The Senate considered the revised proposal of the Department of Management Studies for starting an Executive MBA (EMBA) program after the incorporation of the following features so as to provide more flexibility as advised by the BoG:

- In a given term, a student can register for a maximum of 15.5 credits.
- A student can take a break of a maximum of three consecutive terms.
- The maximum duration of the program be five years.

The Senate recommended the revised proposal to the Board of Governors for approval.

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



Annexure-I

Following were present:

1. Prof. Ajit K. Chaturvedi 2. Prof. M. Parida 3. Prof. M. Parida 4. Prof. V. Devadas 5. Prof. Gaurav Raheja 6. Prof. Sanjoy Ghosh 7. Prof. P. Gopinath 8. Prof. Pravindra Kumar 9. Prof. Ranjana Pathania 10. Prof. Ramasare Prasad 11. Prof. Ramasare Prasad 12. Prof. Paridra Kumar Sharma 13. Prof. Ashwani Kumar Sharma 14. Prof. Shailly Tomar 15. Prof. Prakash Biswas 16. Prof. Amit Kumar Dhiman 17. Prof. P. P. Kundu 18. Prof. C.B. Majumdar 19. Prof. C.B. Majumdar 19. Prof. Sasheshwer Prasad 20. Prof. Basheshwer Prasad 21. Prof. Shaishir Sinha 22. Prof. Naseem Ahmad 24. Prof. R.K. Dutta 25. Prof. K.C. Gupta 26. Prof. K.C. Gupta 27. Prof. P. Jeevanandam 28. Prof. K. Bautya 29. Prof. Wimalepan Sankar 20. Prof. Paritosh Mohanty 20. Prof. Paritosh Mohanty 21. Prof. Wimalepan Sankar 22. Prof. Vimalepan Sankar 23. Prof. A. Sustin Thomas 24. Prof. R.K. Dutta 25. Prof. C. S. Abhad 26. Prof. S. Grag 27. Prof. Jeevanandam 28. Prof. Jeevanandam 29. Prof. Jeevanandam 20. Prof. R.K. Gedinti 21. Prof. Muniappan Sankar 22. Prof. Jeevanandam 23. Prof. Jeevanandam 24. Prof. Sathesh Goosh 25. Prof. K.G. Gupta 26. Prof. K.G. Gupta 27. Prof. Paritosh Mohanty 28. Prof. Jeevanandam 29. Prof. Jeevanandam 29. Prof. Jeevanandam 20. Prof. R.K. Peddinti 21. Prof. Maniappan Chemistry 22. Prof. Paritosh Mohanty 23. Prof. Sathesh Goosh 24. Prof. Paritosh Mohanty 25. Prof. Paritosh Mohanty 26. Prof. K.R. Gupta 27. Prof. Paritosh Mohanty 28. Prof. Jeevanandam 29. Prof. J.K. Ghosh 20. Prof. Realul Dev Garg 21. Prof. B.R. Gurjar 22. Prof. Satyendra Mittal 23. Prof. Satyendra Mittal 24. Prof. Satyendra Mittal 25. Prof. Rahul Dev Garg 26. Pr			
3. Prof. Milli Pant 4. Prof. V. Devadas 5. Prof. Gaurav Raheja 6. Prof. Sanjoy Ghosh 7. Prof. P. Gopinath 8. Prof. P. Gopinath 8. Prof. Pravindra Kumar 9. Prof. Ranjana Pathania 10. Prof. Ranjana Pathania 11. Prof. Ransare Prasad 12. Prof. Ashwani Kumar Sharma 13. Prof. Ashwani Kumar Sharma 14. Prof. Shailly Tomar 15. Prof. Prakash Biswas 16. Prof. Arnit Kumar Dhiman 17. Prof. P.P. Kundu 18. Prof. C.B. Majumdar 19. Prof. Prasenjit Mondal 20. Prof. Psasenjit Mondal 21. Prof. Shailly Tomat 22. Prof. Vimal Chandra Srivastava 23. Prof. Shasheshwer Prasad 24. Prof. Shailly Ghosh 25. Prof. R.K. Dutta 26. Prof. R.K. Dutta 27. Prof. P. R. Wand 28. Prof. R.S. Dutta 29. Prof. R.K. Dutta 29. Prof. R.K. Dutta 29. Prof. P. P. Beannandam 29. Prof. R.K. Dutta 29. Prof. P. P. Singh 29. Prof. P. P. Singh 30. Prof. P. Singh 31. Prof. P. Singh 32. Prof. Shail Singh 33. Prof. R.K. Dutta 34. Prof. P. Jeevanandam 35. Prof. P. Jeevanandam 36. Prof. P. Singh 37. Prof. P. Singh 38. Prof. U.P. Singh 39. Prof. S.K. Ghosh 40. Prof. R. Aupam Chakrabarti 41. Prof. Satyendra Mittal 42. Prof. Sandan 43. Prof. Sandan 44. Prof. Satyendra Mittal 45. Prof. C. S. P. Ojha 46. Prof. K. Hari Prasad 46. Prof. K. Hari Prasad 47. Prof. Prof. Prof. Prasen 48. Prof. C. S. P. Ojha 49. Prof. C. S. P. Ojha 40. Prof. R. Garg 40. Prof. R. Garg 41. Prof. Satyendra Mittal 42. Prof. Satyendra Mittal 43. Prof. Praveen Kumar 44. Prof. Satyendra Mittal 45. Prof. C. S. P. Ojha 46. Prof. K. Hari Prasad 47. Prof. Pr	1.	Prof. Ajit K. Chaturvedi	Director & Chairman
4. Prof. V. Devadas 5. Prof. Gaurav Raheja Architecture & Planning 6. Prof. Sanjoy Ghosh Biotechnology 7. Prof. P. Gopinath Biotechnology 8. Prof. Pravindra Kumar Biotechnology 9. Prof. Naveen Kumar Nawani Biotechnology 10. Prof. Ranjana Pathania Biotechnology 11. Prof. Ramasare Prasad Biotechnology 12. Prof. Partha Roy Biotechnology 13. Prof. Ashwani Kumar Sharma Biotechnology 14. Prof. Shailly Tomar Biotechnology 15. Prof. Prakash Biswas Chemical Engineering 16. Prof. Prakash Biswas Chemical Engineering 17. Prof. P. Kundu Chemical Engineering 18. Prof. C.B. Majumdar Chemical Engineering 19. Prof. Prasenjit Mondal Chemical Engineering 19. Prof. Basheshwer Prasad Chemical Engineering 10. Prof. Shishir Sinha Chemical Engineering 10. Prof. Shishir Sinha Chemical Engineering 11. Prof. Naseem Ahmad Chemistry 12. Prof. Naseem Ahmad Chemistry 13. Prof. Kaushik Ghosh Chemistry 14. Prof. R. L. Dutta Chemistry 15. Prof. P. Jeevanandam Chemistry 16. Prof. R. Shishir Sinha Chemistry 17. Prof. P. Jeevanandam Chemistry 18. Prof. R. Waurya Chemistry 19. Prof. Prof. P. Jeevanandam Chemistry 20. Prof. R. K. Dutta Chemistry 21. Prof. Kaushik Ghosh Chemistry 22. Prof. Kaushik Ghosh Chemistry 23. Prof. R. Shishir Sinha Chemistry 24. Prof. R. Shishir Sinha Chemistry 25. Prof. R. Shishir Sinha Chemistry 26. Prof. K. Shishir Sinha Chemistry 27. Prof. P. Jeevanandam Chemistry 28. Prof. M. R. Maurya Chemistry 29. Prof. Paritosh Mohanty Chemistry 29. Prof. Paritosh Mohanty Chemistry 30. Prof. R. K. Peddinti Chemistry 31. Prof. K. Peddinti Chemistry 32. Prof. J. J. Garg Chemistry 33. Prof. K. Peddinti Chemistry 34. Prof. J. J. Garg Civil Engineering 35. Prof. K. Justin Thomas Chemistry 36. Prof. Paritosh Mohanty Chemistry 37. Prof. Rahul Dev Garg Civil Engineering 38. Prof. R. Justin Thomas Chemistry 39. Prof. Rahul Dev Garg Civil Engineering 40. Prof. B. R. Gurjar Civil Engineering 41. Prof. Satyendra Mittal Civil Engineering 42. Prof. Praveen Kumar Civil Engineering 43. Prof. Fraiti Maheshwari Civil Engineering 44. Prof. Satyendra Mit			
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101. 102. 103. 104. 105. 106.	Prof. Z. Rahman Prof. Vinay Sharma Prof. Sandip Banerjee Prof. P. Bera Prof. Kusum Deep Prof. Tanuja Srivastava Prof. A. Swaminathan Prof. Shiv Prasad Yadav Prof. Navneet Arora Prof. Sushanta Dutta	Management Studies Management Studies Mathematics Mechanical & Industrial Engg.
109. 110.	Prof. Akshay Dvivedi Prof. Dheerendra Kumar Dwivedi Prof. B.K. Gandhi	Mechanical & Industrial Engg. Mechanical & Industrial Engg. Mechanical & Industrial Engg.
112. 113.	Prof. P.K. Jha Prof. Ravi Kumar Prof. B.K. Mishra	Mechanical & Industrial Engg. Mechanical & Industrial Engg. Mechanical & Industrial Engg.
115. 116.	Prof. Manish Mishra Prof. Kaushik Pal Prof. Pushparaj Mani Pathak	Mechanical & Industrial Engg. Mechanical & Industrial Engg. Mechanical & Industrial Engg.
118. 119.	Prof. V.H. Saran Prof. Apurbba Kumar Sharma Prof. Inderdeep Singh	Mechanical & Industrial Engg. Mechanical & Industrial Engg. Mechanical & Industrial Engg.
121. 122.	Prof. Indra Vir Singh Prof. A. Tariq Prof. S.H. Upadhyay	Mechanical & Industrial Engg Mechanical & Industrial Engg. Mechanical & Industrial Engg.
124.	Prof. G.P. Chaudhuri Prof. B.V. Manoj Kumar Prof. Vivek Pancholi	Metallurgical & Materials Engg. Metallurgical & Materials Engg. Metallurgical & Materials Engg.
127.	Prof. Anjan Sil Prof. Dharm Dutt Prof. S.C. Sharma	Metallurgical & Materials Engg. Paper Technology Paper Technology
129. 130. 131.	Prof. Sujay Chattopadhyay Prof. Y.S. Negi Prof. P. Arumugam	Polymer & Process Engineering Polymer & Process Engineering Physics
132. 133.	Prof. Rajdeep Chatterjee Prof. Anil Kumar Gaurishetty Prof. Aalok Misra	Physics Physics Physics
135. 136.	Prof. Tashi Nautiyal Prof. B.K. Patra	Physics Physics Physics
138. 139.	Prof. G.D. Varma	Physics Physics
	Prof. Ajay Wasan Prof. Kanhaiya Lal Yadav Prof. Deepak Khare	Physics Physics Physics WRD&M
	Prof. S.K. Mishra Prof. Ashish Pandey Prof. Kiran Ambatipudi, Associate I Wellness)	WRD&M WRD&M Dean of Students' Welfare (Student

- 147. Prof. Bhavesh Kumar Bhalja, Associate Dean of Academic Affairs (Evaluation)
- 148. Prof. Rama Chandran C.N., Associate Dean of Academic Affairs (Curriculum)
- 149. Dr. C. Jayakumar, Librarian
- 150. Prof. Dheeraj K. Khatod, Chairman, SCSP

Students' representatives:

- 151. Ms. S. Divyasri Lakshmi Malavika, General Secretary (UG)
- 152. Mr. Naveen Kumar Sharma, General Secretary (PG)
- 153. Mr. Manan Monga, General Secretary, (Ph.D.)
- 154. Mr. Prashant Garg, Registrar & Secretary Senate

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HYDRO AND RENEWABLE ENERGY DEPARTMENT INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Proposal for "Minor Specialization in Renewable Energy Technology"

The Department of Hydro and Renewable Energy (HRED) is focusing on providing basic and practical knowledge on different forms of renewable energy. Based on the success of previously offered courses in the Renewable Energy domain as well as to address the global need for sustainable energy solutions, HRED proposes to offer a minor specialization in Renewable Energy Technology to the students of all the branches of B.Tech & B.Arch.

The number of credits to be completed for minor specialization shall be 18-20 credits, with a minimum of five courses. Initially, the following courses would be offered to the students of 3rd year II Sem., 4th year I, and II Sem. The students would be allowed to register for a maximum of two courses each semester.

<u>Table 1: Semester wise breakup of the courses to be offered by HRED under</u> minor specialization in Renewable Energy <u>Technology</u>

Semester	Course	Credit
Spring Semester	Spring Semester AHN-303*: Solar PV concepts, technology and application	
(3rd Year)	AHN-306*: Hydrogen Energy and Fuel cells	3 (3L+0T)
	AHN-513: Renewable Energy Resource Development Technology	4 (3L+1T)
	AHN-582: Electric vehicular technology	4 (3L+1T)
Autumn Semester	AHN-511 Small Hydro Power Planning and Management	4 (3L+1T)
(4th Year)	AHN-528: Rural Electrical Energy System Planning and Design	4 (3L+1T)
	AHN-536: Biomass Production and Utilization	4 (3L+1T)
	AHN-542: Energy Conservation and Management	4 (3L+1T)
	AHN-522: Wind Energy Application Technology	4 (3L+1T)
Spring Semester	AHN-518: Environmental Planning and Management	4 (3L+1T)
(4th Year)	AHN-581: Energy-Water-Food Nexus	4 (3L+1T)
	AHN-516: Hydro Mechanical Equipment	4 (3L+1T)
	AHN-540: Solar Photovoltaic Design and Application	4 (3L+1T)
	AHN-401**: Renewable Energy Mini Project	4

^{*}Existing course number IAH-303 and IAH-306 be changed to AHN-303 & AHN-306 Respectively

2 1 AUG 2021

^{**}New course number proposed

Appendix -B Item No.Senate/87.11

Senate approved PDC List

SI.No.	Name	Deptt.	Topic	Supervisor	Examiner (For./Ind.)	PDC Date
1	Mr. Mohit Dev	AR	FORMULATION OF A FRAMEWORK FOR PUBLIC TRANSPORT GOVERNANCE IN INDIAN CITY	Prof. Arindam Biswas	Prof. Tetsuo Kidokoro, Univ. of Tokyo Japan Prof. Binayak Choudhury, SPA Bhopal	16.02.21
2	Mr. Suryendu Dasgupta	AR	STRATEGIES TO OVERCOME CONSTRAINTS IN CONSERVATION OF HERITAGE AREAS IN HILL STATIONS OF INDIA: A CASE OF DARJEELING	Prof. Pushplata	Prof. Jhon Schofield, University of York, UK Prof. Ajay Khare, Prof., SPA Bhopal	05.07.21
3	Ms. Munesh Devi	ASE	STUDY OF SOME HYPERBOLIC SYSTEMS OF CONSERVATION LAWS AND WATER WAVE EQUATION	Prof. Rajan Arora	Prof. Alexey Shevyakov, Univ. of Saskatchewan Canada Prof. Lal Pratap Singh, IIT Varanasi	09.06.21
4	Mr. Tara Chand Yadav	ВВ	STRUCTURAL ELUCIDATION AND NANOPARTICLE FORMULATION OF TYROSOL FOR BIOMEDICAL APPLICATION	Prof. Ramasare Prasad Prof. Vikas Pruthi	Prof. Kamal Dua, Tech. Sydney Univ., Australia Prof. Subhash Chandra Yadav, AIIMS New Delhi	26.02.21
5	Ms. Neetu	ВВ	STRUCTURAL CHARACTERIZATION OF DRUG-TARGETS FROM GRAMNEGATIVE BACTERIA	Prof. Pravindra Kumar	Prof. Punit Kaur, AIIMS New Delhi Prof. B. Padmanabhan, NIMHANS Bangalore	02.03.21
6	Ms. Poonam Dhankhar	ВВ	BIOCHEMICAL AND STRUCTURAL CHARACTERIZATION OF DYE DECOLORIZING PEROXIDASE FROM BACILLUS SUBTILIS	Prof. Pravindra Kumar	Prof. Samudrala Gourinath, JNU New Delhi Dr. Ram Kumar Dhaked, DRDE Gwalior	06.04.21
7	Ms. Rashmi Gangwar	ВВ	RECOMBINANT THERMOSTABLE MN- SUPEROXIDE DISMUTASE FROM NERIUM OLEANDER AND ASSESSMENT OF ITS ANTIOXIDANT	Prof. R. Prasad	Prof. Prashant Mishra, IIT Delhi Prof. Arvind K. Kayastha, IIT Varanasi	06.04.21



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8	Mr. Shanid Mohiyuddin	BB	CHITOSAN AND CALCIUM PHOSPHATE NANOPARTICLES FOR DELIVERY OF ANTICANCER AGENTS	Prof. P. Gopinath	Prof. Harishkumar Madhyastha, Univ. of Miyazaki, Japan Prof. Siddhartha Sankar Ghosh, IIT Guwahati	21.06.21
9	Mr. Ajay Kumar Chauhan	BB	PRODUCTION AND APPLICATION OF LIGNOLYTIC ENZYMES OF HALOPIGER ASWANENSIS	Prof. Bijan Choudhury	Prof. Yong Hwan Kim, Ulsan National Institute of Sci. & Tech., Republic of Korea Prof. A. Kermanshahi-pour, Dalhousie Univ., Canada Prof. T. R. Sreekrishnan, IIT Delhi	13 07 21
10	Mr. Ajay Kumar Patel	CE	EVALUATION OF SOIL FERTILITY STATUS THROUGH MIXED PIXELS ANALYSIS OF HYPERSPECTRAL DATA	Prof. J. K. Ghosh	Prof. Nicolas Dobigeon, Univ. of Toulouse, France Prof. Anurag Ohri, IIT Varanasi	05.03.21
11	Ms. Aditi Chauhan	CE	CHARACTERIZING CHLORIDE- INDUCED CORROSION IN REINFORCED CONCRETE UNDER VARYING ENVIRONMENTAL CONDITIONS	Prof. Umesh K. Sharma	Prof. Yogesh M. Desai, IIT Bombay Prof. S. K. Bhattacharyya, IIT Kharagpur	16.03.21
12	Mr. Solomon Debbarma	CE	FEASIBILITY OF RAP FOR SUSTAINABLE ROLLER COMPACTED CONCRETE PAVEMENT	Prof. G. D. Ransinchung R. N.	Prof. Dharamveer Singh, IIT Bombay Prof. Brind Kumar, IIT Varanasi	18.03.21
13	Mr. Satendra Kumar	CE	EFFECT OF SODICITY ON SOIL HYDRAULIC PROPERTIES AND ROOT WATER UPTAKE	Prof. K. S. Hari Prasad Dr. D. S. Bundela	Prof. Rao S. Govindaraju, Purdue University, USA Prof. Sekhar Muddu, IISc Bangalore Prof. Shashi Mathur, IIT Delhi	26.03.21
14	Mr. Dipaloke Majumder	CE	RESPONSE OF TUNNELS IN SQUEEZING GROUND CONDI	Prof. Mahendra singh Prof. M. N. Viladkar	Prof. Ramanathan Ayothiraman, IIT Delhi Prof. T. G. Sitharam, IIT Guwahati	12.04.21



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39	Ms. Ekta Aggrawal	ECE	WIDEBAND CONTINUOUS MODE POWER AMPLIFIERS FOR OUTPHASING WIRELESS TRANSMITTERS	Prof. Karun Rawat	Prof. Gaurab Banerjee, IISc Bangalore Dr. D. S. Rawal, DRDO Delhi	21.05.21
40	Mr. Aditya Nath Bhatt	ECE	HYBRID ORGANIC-INORGANIC QUANTUM DOT WHITE LIGHT EMITTING DEVICES	Prof. Brijesh Kumar	Prof. P. Paul Ruden, Univ. of Minnesota, USA Prof. Yogendra K. Mishra, Univ. of Southern Denmark Dr. Vidya Nand Singh, CSIR New Delhi	12.06.21
41	Mr. Satendra Kumar Gautam	ECE	TECHNIQUES FOR IMPROVING LEAKAGES AND ROW HAMMER FAILURE IN NANO-SCALE DRAM TRANSISTOR	Prof. Sanjeev Manhas	Prof. M. M. De Souza, Univ. of Sheffield, UK Prof. Saurabh Lodha, IIT Bombay	15.06.21
42	Mr. Amit Kumar	ECE	PERFORMANCE MODELING AND ANALYSIS OF GRAPHENE-BASED ON-CHIP VLSI INTERCONNECTS	Dr. B. K. Kaushik	Prof. Abhinav Kranti, IIT Indore Prof. Satyabrata Jit, IIT Varanasi	24.06.21
43	Mr. Vishal Kumar Gaur	EE	FAULT DETECTION AND LOCATION ALGORITHMS FOR TRANSMISSION LINE	Prof. Bhavesh R. Bhalja	Prof. Tarlochan Sidhu, Ontario Tech Univ., Canada Prof. Ashok K. Pradhan, IIT Kharagpur	16.03.21
44	Ms. Sandhya Prajapati	EE	SOLAR PHOTOVOLTAIC SYSTEMS FOR ENERGY APPLICATIONS: SOME SIMULATED INVESTIGATIONS	Prof. E. Fernandez	Prof. Mohan Lal Kolhe, Univ. of Agder, Norway Prof. Akhtar Kalam, Victoria Univ., Australia Prof. B. S. Rajpurohit, IIT Mandi	22.04.21
45	Mr. Phanindra K Ganivada	EE	SYNCHROPHASOR TECHNOLOGY ASSISTED PROTECTION SCHEMES FOR ACTIVE DISTRIBUTION NETWORK	Prof. P. Jena	Prof. V. K. Sood, Ontario Tech Univ., Canada Prof. A. K. Pradhan, IIT Kharagpur	19.05.21
46	Mr. Surender Hans	EE	DESIGN, DEVELOPMENT, AND CONTROL OF A FLEXIBLE NEEDLE FOR PERCUTANEOUS INTERVENTIONS	Prof. Felix Orlando Maria Joseph	Prof. Harish Pillai, IIT Bombay Prof. Bijnan Bandyopadhyay, IIT Bombay	25.05.21



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	47	Mr. Pushkar Prakash Arya	EE	· · · · · · · · · · · · · · · · · · ·	Prof. Sohom Chakrabarty	Prof. Prabirkumar Saha, IIT Guwahati Prof. Bidyadhar Subudhi, IIT Goa	01.06.21
	48	Mr. Shivam Jain	EE	DESIGN OF IMC AND ADRC CONTROLLERS FOR LINEAR AND TIME DELAYED SYSTEMS WITH FRACTIONAL ASPECTS AND THEIR APPLICATIONS	Prof. Yogesh Vijay Hote	Prof. R. Padhi, IISc Bangalore Prof. Bidyadhar Subudhi, IIT Goa	16.07.21
	49	Ms. Priyanka Sharma	EQ	SITE CHARACTERIZATION AND LIQUEFACTION POTENTIAL ASSESSMENT IN INDO-GANGETIC PLAINS	Prof. M. L. Sharma Prof. V. A. Sawant	Prof. P. Anbazhagan, IISc Bangalore Prof. G. R. Dodagoudar, IIT Madras	22.02.21
	50	Mr. Sunil Kumar Saini	EQ	SELF CONSISTENT SCALING LAWS FOR THE HIMALAYAS	Prof. Josodhir Das Prof. M. L. Sharma	Prof. Javed N. Malik, IIT Kanpur Prof. P. N. Singha Roy, IIT Kharagpur	16.03.21
1	51	Ms. Neetu Goswami	EQ	ESTIMATION OF SOURCE, PATH AND SITE PARAMETERS FOR THE GARHWAL HIMALAYA USING LOCAL EARTHQUAKES	Prof. S. C. Gupta	Dr. Sumer Chopra, ISR, Gandhinagar Dr. Ajay Paul, WIHG, Dehradun	07.07.21
	52	Ms. D. P. Monika Saini	ES	BALANCED CROSS SECTIONS AND STRUCTURAL EVOLUTION OF NAGA SCHUPPEN BELT, NE INDIA	Prof. B. Bhattacharya Prof. D. K. Mukhopadhyay Dr. Premanand Mishra	Prof. Priyank Jaiswal, Oklahoma State Univ., USA Prof. John Clayburn, Univ. of Oxford, UK Prof. T. K. Biswal, IIT Bombay	24.03.21
	53	Mr. Mohd Zubair	ES	NEAR-SURFACE RESISTIVITY AND RMT STUDIES AT SELECTED SITES IN UTTARAKHAND, INDIA	Prof. M. Israil Prof. S. Szalai	Prof. Sudha Agrahari, IIT Kharagpur Prof. Uma Shankar, IIT Vaaranasi	24.06.21
	54	Mr. Rahul Kumar Garg	HRD	HYDRAULIC TRANSIENT IN PENSTOCK OF MILD STEEL AND GLASS FIBRE REINFORCED PLASTIC FOR HYDRO POWER PLANTS	Prof. Arun Kumar	Prof. Bryan Karney, Unive. of Toronto, Canada Prof. Dhiman Chatterjee, IIT Madras Prof. Pranab K. Mohapatra, IIT Gandhinagar	05.04.21
	55	Mr. Prem Prakash	HRD	OPTIMAL SIZING AND SITING OF DISTRIBUTED GENERATION IN DISTRIBUTION SYSTEM	Prof. D. K. Khatod	Prof. Nick Jenkins, School of Engg., Cardiff Univ.,UK Prof. K. Shanti Swarup, IIT Madras	05.06.21



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			USING PERMEABLE REACTIVE BARRIER	Prof. Himanshu Joshi	Prof. Mihir Kumar Purkait, IIT Guwahati	
65	Mr. Pankaj Kumar	MA	PERFORMANCE MODELING AND RELIABILITY PREDICTION OF FAULT-TOLERANT MACHINING SYSTEMS	Prof. Madhu Jain	Prof. Tuan Phung-Duc, Univ. of Tsukuba, Japan Prof. U. C. Gupta, IIT Kharagpur	02.03.21
66	Mr. Abhishek Kumar	MA	RATE OF APPROXIMATION BY CERTAIN POSITIVE LINEAR OPERATORS	Prof. Aditi Gangopadhyay Prof. P. N. Agarwal	Prof. H. M. Srivastava, Univ. of Victoria, Canada Prof. Ana Maria ACU,Lucian Blaga Univ. of Sibiu, Romania Prof. M. Guru Prem Prasad, IIT Guwahati	14.05.21
67	Ms. Chinika Dangi	MA	NUMERICAL SOLUTION OF SOME PROBLEMS ON STATIC AND DYNAMIC BEHAVIOR OF FGM NANOSTRUCTURES UNDER COMPLICATING EFFECTS	Prof. Roshan lal Prof. N. Sukavanam	Prof. Francesco Tornabene, Univ. of Salento, Italy Prof. Poonam Kumari, IIT Guwahati	05.06.21
68	Mr. Sudhir Kumar	МА	B-SPLINES BASED METHODS FOR SOLVING PARABOLIC AND HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS	17 TOI, TRAITI DIWAIT	Prof. Mani Mehra, IIT Delhi Prof. Jitendra Kumar, IIT Kharagpur	28.06.21
69	Mr. Rahul Shukla	MA	ORDER OF CONVERGENCE BY CERTAIN POSITIVE LINEAR APPROXIMATION METHODS	Prof. R. K. Pandey Prof. P. N. Agarwal	Prof. Narendra K. Govil, Auburn Univ., USA Prof. Muraru Varmen-Violeta, Univ. of Bacau, Romania Prof. P. Devaraj, IISER Thiruvananthapuram	01.07.21
70	Mr. Farhan Ahmad Shamim	MIE	DEVELOPMENT AND PARAMETRIC INVESTIGATIONS OF NEAR-DRY WIRE ECDM PROCESS	Prof. Akshay Dvivedi Prof. Pradeep Kumar	Prof. Deepak Gupta, Wichita State Univ., USA Prof. Pulak M. Pandey, IIT Delhi	09.02.21
71	Mr. Vibhuti Bhushan Pandey	MIE	CRACK INITIATION AND PROPAGATION USING DAMAGE MECHANICS AND XFEM UNDER CREEP FATIGUE ENVIRONMENT	Prof. Indra Vir Singh Prof. B. K. Mishra	Prof. Timon Rabczuk, Bauhaus Univ. Weimar, Germany Prof. M. Ramji, IIT Hyderabad	11.02.21
72	Mr. Bharat Bhushan Sharma	MIE	ATOMISTIC MODELS TO STUDY MECHANICAL AND FRACTURE BEHAVIOUR OF DRY AND WATER	Prof. Avinash Parashar	Prof. Hitendra Kumar Malik, IIT Delhi Prof. Rajnesh Tyagi, IIT Varanasi	24.02.21



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89	Ms. Manmeet Kaur	NT	ADVANCED NANOMATERIALS SYNTHESIS FOR HYDROGEN STORAGE APPLICATIONS	Prof. Kaushik Pal	Prof. Bhanu Bhusan Khatua, IIT Kharagpur Prof. Nishith Verrma, IIT Kanpur	22.06.21
90	Mr. Dharmendra Singh Raghav	PH	ELUCIDATING SIZE EFFECTS ON THE COMPETING MAGNETIC PHASES IN La1-x-yPryCaxMnO3 IN BULK POLYCRYSTALS	Prof. G. D. Verma	Prof. Dhananjay Kumar, North Carolina A&T State Univ., US Prof. Sujeet Chaudhary, IIT Delhi	08.04.21
91	Ms. Neha Kanaujiya	PH	GROWTH AND CHARACTERIZATION OF MOS2@METAL OXIDE BASED NANOCOMPOSITES FOR SUPERCAPACITOR APPLICATIONS	Prof. G. D. Verma	Prof. Tseung Yuen Tseng, National Chiao Tung Univ., Taiwan Prof. Rajendra K. Singh, IIT Varanasi	07.05.21
92	Mr. Nadir Ali	PH	NONVOLATILE SILICON PHOTONIC SWITCHES ENABLED BY WAVEGUIDE EMBEDDED PHASE CHANGE MATERIAL	Prof. Rajesh Kumar	Prof. Vilson Rosa de Almeida, Instituto Technologico de Aeronautica, Brazil Prof. G. Vijaya Prkash, IIT Delhi	13.05.21
93	Mr. Sandeep Kumar	PH	DEVELOPMENT OF IRON BASED OXIDES AS PROSPECTIVE ANODES FOR NEXT-GENERATION LI-ION BATTERIES	Prof. Yogesh K. Sharma	Prof. Amartya Mukhopadhyay, IIT Bombay Prof. Rajendra S. Dhaka, IIT Delhi	04.06.21
94	Mr. Mujeeb Hasan	PH	EFFECT OF MAGNETIC FIELD ON HEAVY QUARKONIA	Prof. B. K. Patra	Prof. Yuri Kovchegov, The Ohio State Univ., USA Prof. Munshi G. Mustafa, SINP Kolkata	04.06.21
95	Mr. Mohd Rehan	PH	OPTICAL FIBERS FOR HIGH PEAK POWER SHORT AND ULTRA-SHORT LASER PULSES	Prof. Vipul Rastogi	Prof. Tarak Nath Dey, IIT Guwahati Prof. Partha Roy Chaudhuri, IIT Kharagpur	28.06.21
96	Mr. Sushanta Kumar Sethi	PPE	MOLECULAR DYNAMICS SIMULATION OF ENVIRONMENTAL FRIENDLY EASY-CLEAN COATINGS	Prof. Gaurav Manik	Prof. Amit Kumar, IIT Guwahati Prof. Kinsuk Naskar, IIT Kharagpur	22.02.21
97	Ms. Anushree Pandey	PPE	MICROENCAPSULATION OF AMYGDALIN IN CHITOSAN AND ITS POTENTIAL APPLICATION IN CANCER DRUG DELIVERY	Prof. Y. S. Negi	Prof. Sudaxshia Murdan, UCL School of Pharmacy, UK Prof. Bhuvanesh Gupta, IIT Delhi Prof. Diwan S. Rawat, Univ. of Delhi, Delhi	02.03.21





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