

भारतीय प्रौद्योगिकी संस्थान रुड़की
रुड़की 247 667
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE 247 667



अभिशासक परिषद् भारतीय प्रौद्योगिकी संस्थान रुड़की की दिनांक 05 अप्रैल 2023 को अपरान्ह 02.30 बजे संस्थान परिषद् कक्ष में आहूत 66^{वीं} बैठक का कार्यवृत्त।

**MINUTES OF THE 66th MEETING OF THE BOARD OF GOVERNORS OF
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE HELD ON 05th APRIL
2023 AT 2.30 P.M. IN THE BOARD ROOM.**

उपस्थित / PRESENT:

- | | |
|---|-------------|
| 1. Shri B.V.R. Mohan Reddy | Chairperson |
| 2. Prof. K.K. Pant
Director, IIT Roorkee | Member |
| 3. Prof. Narendra Singh
State of Uttarakhand | Member |
| 4. Dr. K.K. Kataria
Director (Technical Education)
(on behalf of Principal Secretary, Govt. of Haryana)
Through Video Conferencing | Member |
| 5. Sri Ashwani Lohani, CEO GMR Services, New Delhi | Member |
| 6. Prof. (Retd.) H.C. Pokhriyal, University of Delhi | Member |
| 7. Prof. CSP Ojha, IIT Roorkee | Member |
| 8. Prof. U.P. Singh, IIT Roorkee | Member |
| 9. Mr. Prashant Garg, Registrar, IIT Roorkee | Secretary |

At the outset, the Chairman welcomed the members to the 66th meeting of the Board of Governors.

Communication for leave of absence from Dr. Anil P. Joshi, Dehradun was received due to his pre-engagements.

To receive a report of the Director on the significant developments and activities:

A brief overview report of the Director on progress, significant developments, activities and initiatives in recent past was presented for information and record.

The Board considered the report alongwith the action taken by the institute on various reported matter annexed at **Appendix 'A'** and resolved to take on record with appreciation.

The agenda was then taken up.

Item No.66.1: To confirm the minutes of the 65th meeting of the Board of Governors held on 24.11.2022.

Since no comments were received, the Board confirmed the minutes as circulated.

Item No.66.2: Actions taken report on the minutes of the 65th meeting of the Board of Governors held on 24.11.2022.

The Board noted the actions taken.

Item No.66.3: To ratify the approvals accorded by the Chairman, Board of Governors on behalf of the Board of Governors.

The approvals accorded by the Chairman on behalf of the Board were ratified as under:

- (i) Three persons to the Finance Committee as the Board nominees for a period of two years w.e.f. 01.01.2023 to 31.12.2024:
 - 1. Principal Secretary to Government of Haryana
Technical Education Department
Room No. 429, 4th Floor, Haryana New Secretariat
Sector-17, Chandigarh 160 001
 - 2. Dean (Finance & Planning), Ex-officio, IIT Roorkee
 - 3. Prof. U.P. Singh, Department of Chemistry
- (ii) Nomination on the Building & Works Committee for a period of two years w.e.f. 01.01.2023 to 31.12.2024.



(iii) Recommendations of the Selection Committees on the following posts:

(1) Assistant Professor Gr.I/ Gr.II

- a. Applied Mathematics & Scientific Computing Department
- b. Biosciences & Bioengineering Department
- c. Civil Engineering Department
- d. Electrical Engineering Department
- e. Electronics & Communication Engineering Department
- f. Hydro & Renewable Energy Department
- g. Hydrology Department
- h. Metallurgical & Materials Engineering Department
- i. Polymer & Process Engineering Department

(2) Adjunct Faculty

- a. Civil Engineering
- b. Water Resources Development and Management

(3) Adjunct Professor

- a. Chemical Engineering Department
- b. Civil Engineering Department
- c. Physics Department

(4) Distinguished Visiting Professor

- a. Civil Engineering Department
- b. Chemical Engineering Department
- c. Electronics and Communication Engineering Department
- d. Mechanical & Industrial Engineering Department
- e. Metallurgical and Materials Engineering Department

(5) Emeritus Fellow

- a. Biosciences & Bioengineering Department
- b. Earth Sciences Department
- c. Humanities & Social Sciences Department
- d. Management Studies Department
- e. Mechanical & Industrial Engineering Department
- f. Polymer & Process Engineering Department



(6) Professor of Practice

- a. Biosciences and Bioengineering Department
- b. Hydro and Renewable Energy Department

(7) Visiting Faculty

- a. Biosciences and Bioengineering Department
- b. Chemical Engineering Department
- c. Mechanical & Industrial Engineering Department
- d. Metallurgical and Materials Engineering Department

(8) Visiting Professor

- a. Civil Engineering Department
- b. Humanities and Social Sciences Department
- c. Hydro and Renewable Energy Department

(9) Professorial Chair

- a. Bharat Singh Professorial Chair
- b. BIS Sponsored Professorial Chair
- c. HAL Sponsored Professorial Chair
- d. MNRE Sponsored Professorial Chair
- e. NHPC Sponsored Professorial Chair
- f. Shamsheer Prakash Foundation Sponsored Professorial Chair

- (iv) Nomination of Prof. Udai Pratap Singh, Department of Chemistry is appointed as Dy. Director for a period of two years w.e.f. 12.12.2022.
- (v) Proposal for establishment of the 'International Center of Excellence for Dams (ICED)' at the Institute. MoA has been signed between IIT Roorkee and CWC.
- (vi) Proposal of a Group Health Insurance Scheme for the regular employees of IIT Roorkee.
- (vii) Approval of a panel of eminence as Board's Nominee on the Selection Committees of DAA and DYAA.



Item No.66.4: Matters for the information of the Board of Governors.

The Board noted the following:

- (i) Minutes of the 51th meeting of the Finance Committee held on 24.11.2023 (the minutes will be available at the BoG meeting).
- (ii) Minutes of the 93th, 94th meeting of the Senate held on 28.12.2022, 22.02.2023 respectively. (the minutes will be available at the BoG meeting).
- (iii) Minutes of the 48th meeting of the B&WC held on 27.03.2023. (the minutes will be available at the BoG meeting).
- (iv) The following faculty and non-faculty Group 'A' have joined:

Sr. No	Name	Designation	Department / Centre	Date of Joining
1	Dr. Ambrish Pandey	Asstt. Prof. Gr.-I	Physics	02.01.2023
2	Dr. Abhishek	Asstt. Prof. Gr.-II	Civil Engg.	10.03.2023
3	Dr. Sourav Kumar Sasmal	Asstt. Prof. Gr.-I	App.Maths. & Sci. Computing	14.03.2023
4	Dr. Poonam Choudhary	Asstt. Prof. Gr.-I	BSBE	20.03.2023
1.	Dr. Usha Banerjee	Sr. Sci. Officer (On Contract)	ICC	05.01.2023
2.	Mr. Pramod Kumar	ASO	ISC	18.01.2023
3.	Dr. G. Chandana	GDMO	Inst. Hospital	18.01.2023
4.	Mrs. Chitra Maini	AR (Promoted under VBPS)	Office of Dean (I.R.)	09.02.2023
5.	Mr. Jyoti Gurung	AR(Promoted under VBPS)	Estt. 'B'	10.02.2023
1	Dr. Meenesh R. Singh	Visiting Faculty	Chem. Engg.	16.01.2023
2	Dr. Shailendra Kumar Joshi	Adjunct Faculty	WRD&M	One year extension w.e.f. 23.01.2023
3	Dr. S.K Jain	Visiting Professor	Civil Engg.	One year extension w.e.f. 23.01.2023

4	Dr. Praveen Linga	Adjunct Professor	Chem. Engg.	27.01.2023
5	Dr. Lee Fook Hou	Distinguished Visiting Professor	CED	One year extension w.e.f. 09.02.2023
6	Prof. Subodh Kumar	Visiting Professor	HRED	15.03.2023

(v) The following faculty members have been re-employed:

Sr. No	Name	Department	Date of superannuation	Re-employed
1	Dr. M.R. Maurya	Chemistry	31.07.2023	30.06.2024
2	Dr. C.B. Mazumdar	Chemical	31.01.2024	30.06.2024
3	Dr. P.K. Garg	CED	31.08.2023	30.06.2024
4	Dr. S.K. Ghosh	CED	31.10.2023	30.06.2024
5	Dr. Mohd. Israil	ES	29.02.2024	30.06.2024
6	Dr. E. Fernandez	EED	31.05.2024	30.06.2024
7	Dr. N.K. Goel	Hydrology	30.04.2024	30.06.2024
8	Dr. Himanshu Joshi	Hydrology	31.07.2023	30.06.2024
9	Dr. Kusum Deep	Mathematics	31.08.2023	30.06.2024
10	Dr. Shiv Prasad	Mathematics	31.07.2023	30.06.2024
11	Dr. U.K. Ghosh	Poly. & Process	31.12.2023	30.06.2024
12	Dr. K. Murugesan	MIED	30.04.2024	30.06.2024

(vi) The following Faculty and Officers (Group 'A') have superannuated / expired:

Sr. No	Name	Designation	Department	Date of Superannuation /Expired
1	Dr. S.C. Sharma	Professor HAG	MEID	31.12.2022
2	Shri Rajesh Sachdeva	Programmer	ICC	30.11.2022
3	Shri Sakir Ali	TO Level – I	WRD&M	31.12.2022
4	Shri Pramod Kumar	AR (S.S.)	F & A	31.01.2023
5	Dr. R.P. Saini	Professor HAG	HRED	02.03.2023 (Expired)

(vii) The following Faculty has resigned:

Sr. No	Name	Designation	Department	Date of resignation
1	Dr. Ishan Bajaj	Asstt. Prof. Gr.-I	Chem. Engg.	22.02.2023

(viii) The following Faculty members and other staff have been brought on regular cadre:

Sr. No	Name	Designation	Department	Date of Regularization
1	Dr.Raja Chowdhury	Assoc. Prof.	CED	11.12.2022
2	Dr.Pratap Chandra Mohanty	Assoc. Prof.	HSS	11.12.2022
3	Dr.Siladitya pal	Assoc. Prof.	MIED	11.12.2022
4	Dr.Sourav Das	Assoc. Prof.	MMED	11.12.2022
5	Dr.Sadhan Ghosh	Assoc. Prof.	MMED	11.12.2022
6	Dr.Monojit Bag	Assoc. Prof.	Physics	11.12.2022
7	Dr.Rajesh Kumar	Assoc. Prof.	Physics	11.12.2022
8	Dr.Sham Sundar Ravindranath	Assoc. Prof.	Poly. and Process Engg	11.12.2022
9	Dr.Maheshanand	Professor	Mathematics	11.12.2022
10	Dr.Chhaya Sharma	Professor	Paper Tech.	11.12.2022
11	Dr.Shahbaz Khan	Asstt. Prof. Gr. I	CSE	28.12.2022
12	Dr.Sachin Suresh Tiwari	Asstt. Prof. Gr. I	BSBE	01.02.2023
13	Dr.Vishal Kumar	Professor	EED	18.03.2023

(ix) Additional Secretary(TE) Ministry of Education/Secretary, Council of IITs notifying the new membership the Standing Committee of the IIT Council (SCIC).

(x) Changing abbreviation as DInC in place of DIC for Diversion Inclusion Committee.

Item No.66.5 : To approve the award of Ph.D. Degrees to the students for academic session 2021-22 who have duly qualified for the same, on the recommendation of the Senate/Chair Senate.

RESOLUTION No. BG/01/2023: The Board considered the recommendations of the Senate and resolved that the award of Degrees to the 94 students who have qualified for Ph.D Degree & Ph.D – Dual Degree after 24.11.2022 be approved.

Appendix-B.

Item No.66.6 : To consider a proposal to rename the recently created "Center for Flexible and Smart Energy Device"(CFSE) to "Center for Sustainable Energy" (CSE). "

RESOLUTION No. BG/02/2023: The Board considered the recommendation of the Senate and resolved that renaming of the "Center for Flexible and Smart Energy Device"(CFSE) to "Center for Sustainable Energy" (CSE) be approved.

Item No.66.7 : To consider a proposal to entrust the student fee for Career Development Cell (CDC).

RESOLUTION No. BG/03/2023: The Board considered the item and resolved that the student fee @ Rs. 300/- per student per semester for Career Development Cell from the autumn semester of session 2023-24 onwards be approved.

Item No 66.8: To consider a proposal to Institute Annual Research Award titled "HRED – River and Lake Conservation and Management Award".

RESOLUTION No. BG/04/2023: The Board considered the item and resolved that the annual Research Award titled "HRED – River and Lake Conservation and Management Award" of rupees one lac annually for 10 years, be approved.

Item No.66.9 : To consider a proposal on the minor changes in the guidelines of Distinguished Alumni Awards (DAA).

RESOLUTION No. BG/05/2023: The Board considered the item and resolved that the following changes be approved:

1. Clause 54.12: "Nominations for DAA should be invited from all over the world and anybody can nominate." be retained. However, all applications so received including through self-nomination be first screened before these be placed before the Selection Committee.
2. Two referee names along with reference letters be made compulsory to attach with application.
3. Clause: 54.12 & 55.12: For nomination of two persons of eminence in Selection Committee, a panel of five members for three years be got approved by the Board.

Accordingly, a panel of five members is ratified with revised validity for three years to nominate in the Selection Committee of Distinguished Alumnus Awards (DAA) and Distinguished Young Alumnus Award (DYAA).



Item No.66.10 : To consider a proposal on the revision in the minimum wages of project staff.

RESOLUTION No. BG/06/2023: The Board considered the item and resolved that the following revision in the monthly emoluments of the project staff be approved:

Project position	Proposed Emoluments (Per Month)
Project Attendant (Admn./Tech.)	Rs. 18,000 to 30,000/-+ HRA
Project Assistant (Admn./Tech.)	Rs. 21,000/- to 45,000/-+HRA

Item No.66.11 : To consider a proposal on reduction of time limit in gap period of Project Staff in SRIC rule 4.1.12.

RESOLUTION No. BG/07/2023: The Board considered the item and resolved that the change of gap period to three months in SRIC rule 4.1.12 for Project staff be approved.

Item No.66.12 : To consider a proposal on the Cost Escalation of ‘Ultra High-Speed Secured wired and wireless Internet’ at IIT Roorkee.

RESOLUTION No. BG/08/2023: The Board considered the recommendations of the Finance Committee and approved the Cost escalation of Rs.5.30 crores on account of USD to INR conversion rate for HEFA funded project-‘Ultra High-Speed Secured wired and wireless Internet’ at IIT Roorkee.

Item No.66.13 : To take a note on financial status of IIT Roorkee and status of audit paras.

The Board has taken a presentation on financial status of the Institute and status on audit paras as given at **Appendix-C.**

The Board considered the presentation and suggested the following:

1. Be more prudent in investing in multiple sources, irrespective to some associated risk.
2. Ministry guidelines on investment ratio be followed.
3. Not more than fifty percent of IRG be spent for the projects funded by HEFA.
4. To the extent possible only the interest earned on corpus be utilized.
5. Audit paras be categorized into A, B or C type like in corporate world.



Item No.66.14 : To consider a proposal for demolition of old and structurally unsafe buildings in the IIT Roorkee campus.

RESOLUTION No. BG/09/2023: The Board considered the recommendations of Finance Committee and resolved that the demolition of the following old and structurally unsafe buildings be approved.

1. Old Central Store (behind GP Hostel)
2. University Garage Quarters (Dhobi Ghat)
3. Old House of Vikas Kunj which is in depilated condition

Item No.66.15 : To consider the proposal for construction of a building for 'International Centre of Excellence of Dams' (ICED).

RESOLUTION No. BG/10/2023: The Board considered the recommendations of the Finance Committee for creation of 3105 sq.m. additional space in the 'Western Academic Block' for International Centre of Excellence of Dams (ICED) by utilizing the allotted fund to Rs.17.60 crores be approved.

Item No.66.16 : To consider the proposal for the construction of Convention Center at Niti Nagar area under PPP mode.

RESOLUTION No. BG/11/2023: The Board considered the recommendations of the Finance Committee and resolved that the proposal for construction of building for Research Park cum Convention Center with industry and alumnus funding be approved.

Further, the Board suggested that HEFA funding be simultaneously explored.

Item No.66.17 : To consider a proposal for adopting guidelines on hiring the services of some retired experienced persons as consultants.

RESOLUTION No. BG/12/2023: The Board considered the item and resolved that the proposed guidelines as at **Appendix-D** on hiring the services of retired experienced persons as consultants be approved.

Further, the Board resolved that the Selection Committee be constituted in terms of the Clauses 13(3)f of the Statues of IIT Roorkee.



Item No. 66.18: To consider a proposal for the creation of one post of Jr. Technical Architect in IIT Roorkee.

RESOLUTION No. BG/13/2023: The Board considered the item and resolved that creation of one post of Junior Technical Architect against the overall available Group 'B' (Technical) sanctioned strength in IIT Roorkee with qualifications and duties placed at **Appendix-E** be approved.

Item No.66.20 : To consider a proposal on a minor modification in the provision for release of an advertisement as passed by the Board Resolution No BG/43/2022 on a proposal of Vacancy Based Promotion Scheme.

RESOLUTION No. BG/15/2023: The Board considered the item and resolved that employee will not be eligible to apply for the same post in the immediate next advertisement appearing after six months.

Item No.66.21 : To consider a proposal of re-classification of existing posts of Workshop Superintendent into the Scientific and Design staff.

RESOLUTION No. BG/16/2023: The Board considered the item and on taken a note of the MHRD letter F. No. 25-2/2014-TS.I dated 28th July 2016, classification of posts comes under the purview of the Board of Governors of the Institute. The Board resolved that the post of Workshop Superintendent be classified as Scientific and Design staff.

Item No.66.22 : To consider a revision of sitting fee from Rs. 5000/- to Rs. 10000/-, to be paid to the external members for attending the meetings of the Selection Committee/ Sub-Committees of the Board/Building & Works Committee/ Finance Committee/ Board of Governors, in addition to the TA/DA.

RESOLUTION No. BG/17/2023: The Board considered the recommendations of the Finance Committee and resolved that the revision of sitting fee to Rs.10,000/- be approved.



Item No.66.23 : To consider a proposal for recruitment of Associate Professors and Professors through Open advertisement for 20 posts each.

RESOLUTION No. BG/18/2023: The Board considered the item and resolved that the proposal to invite the external applicants in recruitment of Associate Professors and Professors through Open advertisement, initially up to 20 posts each with application of reservation, consistent with roster be approved.

Further, the Board advised that representation from reserved categories should be uniform across the departments.

Item No.66.25 : To consider the proposals of IIT Roorkee to resolve the issues between IIT Roorkee and IIT Roorkee Alumni Association (IITRAA).

RESOLUTION No. BG/20/2023: The Board considered the item and resolved that the changes agreed upon in the meetings of a duly constituted Committee given at **Appendix-F**, alongwith the following be approved:

1. Shift its office from Roorkee campus to GNE campus and an extension office be provided in the Campus.
2. Replace the clause of the Secretary of EC being Roorkee based to Secretary to be selected on PAN India basis.

Further IITRAA will incorporate all changes in their bye-laws, get it approved by Registrar of Societies and will submit in DORA office.

Item No.66.26: To receive a report of the Director on the significant developments and activities:

The report was presented at beginning of the meeting.

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

Items under limited circulation are excluded.





Board of Governor's Meeting, 5 April 2023

Prof. K.K. Pant, Director, IIT Roorkee





175 Years Celebration of IIT Roorkee

- The celebrations for the 175th Year began from November 25th, 2021, and culminated on November 24th, 2022.
- Partnering with academic institutions and research organizations around Roorkee - IITR@175 initiative
- New Fellowships/Internships/Incubation facilitation schemes
- Calendar for 2022 – Capturing 175 years
- A commemorative Coin, Stamp and a Coffee Table Book have been released on occasion of 175 years of IIT Roorkee.

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15 MAY 2023

Achievements and Awards



- The Central Water Commission (CWC), Department of Water Resources, River Development & Ganga Rejuvenation, **Ministry of Jal Shakti** entered into a Memorandum of Agreement for Development of **International Centre of Excellence for Dams (ICED)**, with a funding of **Rs. 108 Crores**, under externally funded Dam Rehabilitation and Improvement Project on 14th Feb 2023
- **Prof. NP Padhy** led D-SIDES project (funded by DST, India) has been awarded the **Jury Award** of the 2022 IEEE Smart Cities
- **Prof. Ranjana Pathania** has been elected as Fellow of the National Academy of Sciences awarded on November 9, 2022
- IIT Roorkee student contingent won the coveted General Championship of the 55th edition of the Inter-IIT sports meet in December 2022.

15 MAY 2023



Total outlay of sponsored research and consultancy projects

After B.o.G. (24.11.2022 to 31.03.2023):

	Total No. of Projects	Total Outlay (Rs.)
Research Project	79	151.97crores
Consultancy Project	111	9.85 crores

15 MAY 2023

Fireside Chat

Dept. of Management Studies, IIT Roorkee
hosted a Fireside Chat on 24th Nov 2022
with **Shri. B.V.R Mohan Reddy, Chairman**
**BoG, IITR, on his book “Engineered in
India”**

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Major Initiatives in Academic Affairs

- UG Academic Curriculum Development Workshop & UG Academic Curriculum Revision inline with NEP- 2020
- 'Golden Girl' scheme for female first rank holder
- 22nd Convocation - Total= 2022 (i.e. UG- 1005, PG- 638 & Ph.D. - 379)
- Introduction of EMBA program from the Dept. of Management Studies
- Establishment of two new Centres:
 - Centre for Sustainable Energy (CSE)
 - Centre for Space Science and Technology (CSST)
- Implementation of Shodhganga
- Introduction of a joint degree program 'M.Tech. in Semiconductor Technology' between IITR and three Universities of Taiwan
- Introduction of M. Tech. Terahertz Communication and Sensing program from the Deptt. of ECE
- The institute is preparing a detailed policy to have a common procedure for multiple entry system.



Major Highlights of Faculty Affairs & Staff

(A) Hiring of Faculty

- Assistant Professor Grade-I / Grade-II - 24
- Adjunct faculty/ Adjunct Professor/Distinguished Visiting Professor/Visiting Professor/Visiting Faculty/Professor of Practice - 12
- Re-employment - 13
- Professorial Chair - 5
- Emeritus Fellow - 3

(B) Hiring of Non-Teaching staff

- Group A - 4
- Group B,C - 12
- Under VBPS - 22

15 MAY 2023



IITR Startup Expo 2022 & Industry Expo – Uttarakhand Udyog Mahostav

IITR Startup Expo was organised on

25.11.2022

- About 50 Startups showcased their work.
- Around 100 industry delegates visited the expo.



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IIT Roorkee in Association with Bhagwanpur Industry Association organised Uttarakhand Udyog Mahotsava 2023 (18-20 March, 2023)

200 Industries from all over Uttarakhand and 20 Startups from IITR showcased at UKUM

5 MAY 2023

MoU's with Central Institute of Plastic Engineering & Technology (CIPET) and Indian Air Force (IAF)



MoU between CIPET and IIT Roorkee was on 7th February, 2023 at IIT Roorkee to strengthen **Academic and Research Cooperation**



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IITR signed a MoU with IAF on 14th February 2023 at Aero India Bengaluru to develop indigenous defence technologies, and equipment via R&D. The aim is for a self-reliant Indian defence system. The MoU outlines the collaborative effort between IIT Roorkee and IAF to achieve the government's '**Make in India, Make for the World**' vision.



5 MAY 2023

MoA with Central Water Commission (CWC) & DIA CoE



The Central Water Commission (CWC), Department of Water Resources, River Development & Ganga Rejuvenation, **Ministry of Jal Shakti** entered into a Memorandum of Agreement for Development of **International Centre of Excellence for Dams (ICED)** fund of **Rs. 108 crores**, under externally funded Dam Rehabilitation and Improvement Project on **14th Feb 2023**



DRDO Industry Academia-Centre of Excellence (DIA-CoE)

Ministry of Defence, Government of India has approved the DRDO Industry Academia-Centre of Excellence (DIA-CoE) at IIT Roorkee. This has also been intimated in a seminar on Atmaanirbharta in Defence R&D held at the recent DefExpo 2022, India at Gandhinagar, chaired by **Hon'ble Defence Minister, Shri Rajnath Singh**.



5 MAY 2023



03 Technology Transfers

Title of the Innovation/Patent/ Technology	Name of the Inventor & Department	Patent Application Number with Date	Technology Transfer Partners	Date
Biosensor for detecting Cancer using Exhaled breath	Prof. Indranil Lahiri, and Debrupa Lahiri (MMED) & Partha Roy (BSBE)	Patent Application filed 201911030871	Tata Steel	17.10.2022
A system and method for through wall imagine	Dharmendra Singh (ECE)	201911004784, Dt. 06.02.2019	Dirghadhi Technology Pvt. Ltd	28.10.2022
water-based printing ink technology	Prof. Milie Pant, Prof. Y.S. Negi, and Anurag Kulshreshtha	Patent is in the Process	Afflatus Gravure Private Limited Noida	13.01.2023





16 MoU's / MoA's signed during the Period 13-10-2022 to 28-03-2023

S.No	Name of Collaborating Agency	Agency Type	Period of Collaboration (in Years)	Date of Signing	MoU/MoA
1	John Deere India Private Limited	Corporate/Industry Association	5 Years	17.10.2022	MoA
2	Ozone cell, Ministry of Environment, Forest and Climate Change, Govt.	Govt. Agency (Central)	5 Years	20.10.2022	MoA
3	Central Water Commission	Govt. Agency (Central)	10 Years	14.02.2023	MoA
4	Luit Energy Renewable Solutions Pvt Ltd	Corporate/Industry Association	9 Months	28.02.2023	MoA
5	Department of Biotechnology, Ministry of Science and Technology, GOI	Govt. Agency (Central)	5 Years	17.11.2022	MoU
6	HDFC Bank Limited	Corporate/Industry Association	1 Year	25.11.2022	MoU
7	National Technical Textiles Mission, Ministry of Textiles, GOI	Govt. Agency (Central)	5 Years	28.11.2022	MoU
8	Nuclear Fuel Complex	Govt. Agency (Central)	5 Years	14.12.2022	MoU
9	Ministry of Roads Transport & Highways	Govt. Agency (Central)	5 Years	24.12.2022	MoU
10	FARELABS Gurugram	Corporate/Industry Association	5 Years	27.01.2023	MoU
11	Central Institute of Plastic Engineering & Technology	Govt. Agency (Central)	5 Years	07.02.2023	MoU
12	Kasper India Pvt Ltd	Corporate/Industry Association	1 Year	11.02.2023	MoU
13	Indian Air Force, Air Headquarters	Govt. Agency (Central)	5 Years	14.02.2023	MoU
14	Bhaqwanpur Industries Association & Roorkee Small Scale Industries Association	Corporate/Industry Association	3 Years	03.03.2023	MoU
15	SBL Specialty Coatings Private Limited	Corporate/Industry Association	5 Years	16.03.2023	MoU
16	Doon University Dehradun	Educational Institute	3 Years	28.03.2023	MoU

IIT Roorkee is adjudged as most innovative research institute by CII for last 3 consecutive years-2020, 2021 and 2022



Confederation of Indian Industry



CII Industrial Innovation Awards 2022

This is to certify that

Indian Institute of Technology Roorkee

is winner in the category of Top Innovative Research Institution

December 2022

Ashish Mohan

Dr Ashish Mohan

Executive Director- Technology, Innovation, Research, Design & IP
Confederation of Indian Industry

Vipin Sondhi

Mr Vipin Sondhi

Chairman, CII National Mission on Technology, Innovation and Research
Chairman, CII Industrial Innovation Awards 2022

IIT ROORKEE

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5 MAY 2023



IIT Roorkee improves its Global Rank in Broad Subject Area of "Engineering & Technology" by 47 places in QS World University Rankings by Subject 2023

Declined
Improved



The subject-wise ranks/bands of IITR are shown below:

Subject area/ Discipline	Global Band in 2023	Global Band in 2022	Global Band in 2021	National Rank in 2023	National Rank in 2022	National Rank in 2021
Architecture and Planning	151-200	151-200	151-200	2	1	2
Overall Engineering & Technology	175	222	176	7	7	7
Chemical Engineering	151-200	151-200	151-200	8	8	8
Computer Science and Engineering	201-250	251-300	251-300	7	7	7
Civil Engineering	101-150	101-150	101-150	5	4	5
Mechanical and Industrial Engineering	151-200	151-200	201-250	7	7	8
Electrical and Electronic Engineering	151-200	151-200	151-200	7	7	7
Chemistry	351-400	301-350	301-350	9	9	9
Metallurgical and Materials Engineering	201-250	201-250	201-250	7	7	7
Mathematics	201-250	251-300	251-300	8	7	7
Physics	351-400	351-400	351-400	10	10	10
Management studies	251-300	251-300	251-300	9	9	10

IIT ROORKEE

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Fostering International Collaboration

- IIT Roorkee partners with University of Potsdam, Helmholtz Centre Potsdam GFZ, Freie University Berlin etc. The visit took place between March 18 – 25, 2023.
- An IITR delegation led by the Director, Prof KK Pant visited the Tribhuvan University, Nepal from Feb 25–Mar 02, 2023
- IITR has signed 17 MoUs/Agreements with international partner universities. These universities include Niigata University, Japan; University of Saskatchewan, Canada; Arizona State University, USA; Addis Ababa University, Ethiopia; Hanyang University, South Korea; University of Lausanne, Switzerland etc.





Milestones of Dean of Resources and Alumni Affairs (DORA)

- 7 Alumni Batch Re-unions, 1000 alumni
- 4 Alumni Get-together, 200 alumni
- 20 MOUs close to Rs. 5.50 Crore
- Support for IITR Faculty for Visiting Institutions Abroad: 03
- Support for Faculty, Researchers and Students from Foreign Institutions: 03
- Support for IITR Students for Visiting Institutions Abroad: 01
- Travel Support to attend Good International Conferences/Workshops/Symposia
- Institute has started the scheme for students to provide travel support to attend Good International Conferences (GIC): 49
- Travel Support to Students for International Research Internships (TSS-IRI): 01

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Alumni Awards



Distinguished Alumnus Award of 2021:

- Prof. Emeritus O. P. Malik (1962 - M.E. - Electrical Engineering) at the University of Calgary, Canada the Distinguished Alumnus Award of 2021 in the category of Research Excellence. The ceremony was held on **11 Nov, 2022**.
- Dr. Dinesh Srivastava (1983 B.E. - Metallurgical Engineering) (Chairman & Chief Executive, Nuclear Fuel Complex) the Distinguished Alumnus Awardee of 2021, in Excellence in Technology Innovation. The ceremony was held on **14-Dec-2022**.

For other Distinguished Alumni Awardees, the award ceremony was held on **24th November 2022**. Following awardees attended the ceremony.

- Prof. Ajay K. Agrawal, 1980 – B.E. – Mechanical Engg. Distinguished Alumnus Award in Academic Excellence.
- Prof. S. C. Handa, 1966 - M.E. – Civil Engg. Distinguished Alumnus Award in Excellence in Service to the Society.
- Mr. Prakash Kumar Singh, 1979 – B.E. – Metallurgical Engg., Distinguished Alumnus Award in Managerial Excellence.
- Prof. Rajeev Ahuja, M.Sc. - 1986 & Ph.D. - 1991 – Physics, Distinguished Alumnus Award in Research Excellence.
- Mr. Pitambar Shivnani, 1986 - B.E. - Electrical Engg., Outstanding Service Award in Augmenting Resources for IIITR.

Student Awards:

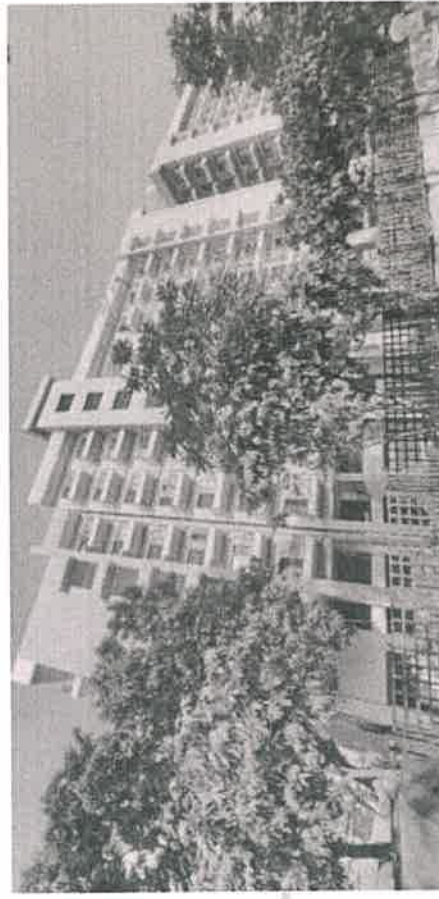
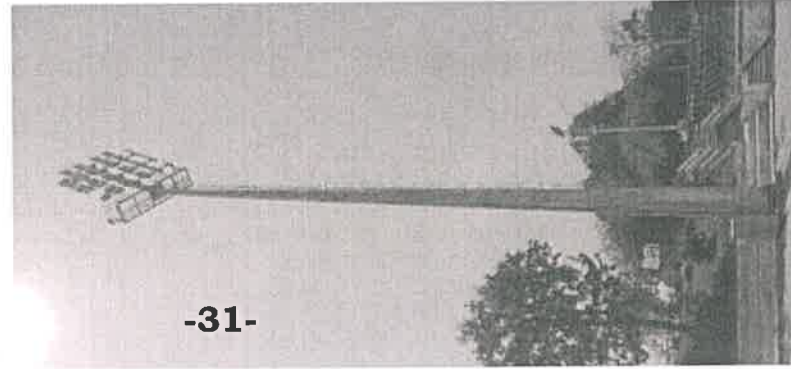
- **ENCORE 2022 Award** were given to 27 students in a ceremony held on 15 March 2023. This award is established by alumni of 1989 batch.
- **Horiba Talent Hunt Scholarships**, a CSR Initiative by Horiba India Pvt.Ltd. were given to 18 UG students in a ceremony held on 27 March, 2023.

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Infrastructural developments



- Construction of 800-seater Students' Hostel (Himalaya Bhawan) (Dec. 2022 - Jan. 2023): Two Blocks (B1 & B2) of the new 800-seater Hostel named 'Himalaya Bhawan' situated in Vigyan Kunj at IIT Roorkee campus have been completed and allotted to the Girls students in the month of Dec. 2022 and Jan. 2023. The other two blocks (B3 & B4) along with the Mess Block shall be handed over by June 2023.



- The old HSS building has been refurbished to accommodate the Mehta Family School of Data Science and Artificial Intelligence, the Centre for Photonics & Quantum Communication Technology, a Laboratory & faculty offices of the Department of CS&E, and few Laboratories and faculty offices of the Department of E&CE.
- Refurbishment of Sports Complex (12th Dec. 2022)

Notable Alumni mentions



NAME	Achievement
Mr. Anil Kumar Lahoti	Shri Anil Kumar Lahoti (Master of Engineering from the University of Roorkee, 1986 batch) has taken over the charge of the new Chairman & Chief Executive Officer (CEO), of the Railway Board (Ministry of Railways) from 1 Jan 2023.
Prof. Bharat Bhasker	Professor Bharat Bhasker (Electronics & Communications Engineering, 1980 batch) has been appointed as the Director of the Indian Institute of Ahmedabad (IIMA).
Mr. Pankaj Kumar	Pankaj Kumar (1986 batch) has taken over the charge of Director (Offshore) of Oil and Natural Gas Corporation (ONGC).
Mr. Srijan Jindal	Srijan Jindal (Biotechnology, 2016 batch) was among 75 young Indian students and alumni who received India UK Achievers Honours
Mr. Piyush Behre	Piyush Behre, (CSE, 2008 batch) Principal Applied Scientist Manager at Microsoft has received the prestigious Fellowship from the Institution of Engineering and Technology (IET). He has also been recognized as a Fellow of The British Computer Society (BCS).
Mr. Nishant Chandra and Mr. Siddharth Maheshwari	Nishant Chandra (Production and Industrial Engg. and Siddharth Maheshwari CSE, 2014 branch) to empower youth from Tier II and Tier III cities to become industry-ready for technology jobs; so far, over 1,000 students have landed jobs at an average salary of Rs 7 lakh.
Shri. Mohan Kumar Singh	Civil- 1987 batch, Chief Commissioner, Mumbai Customs Zone II, has been appointed as Director General, Directorate of Revenue Intelligence (DRI), New Delhi.
Mr. Harshil Mathur and Mr. Shashank Kumar	Mr. Harshil Mathur BTech 2013 and Mr. Shashank Kumar BTech 202 Razorpay were voted as The Economic Times Startup of the Year 2022 in what was arguably the most contested category.

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Major Consultancy Projects

PI	Title	Sponsoring Agency	Contracted Amt. (in Rs.)
SANJAY CHIKERMANE	AUDIT OF ALL THE PARAMETERS FOR CONSTRUCTION OF FOURLANE BRIDGE WITH FOOTPATH ACROSS RIVER GANGA BETWEEN SULTANGANJ	BIHAR RAJYA PUL NIRAMN NIGAM LTD.	15000000
VIDIT GAUR	STUDY OF FATIGUE BEHAVIOR OF DIFFERENT GRADES OF WEIDED RAILS	M/S. BHILAI STEEL PLANT	10800000
KAMAL JAIN	RESERVOR SEDIMENTATION STUDY FOR TEHRI DAM SERVIVOR THROUGH DRONE AND BATHYMETRY	SHRI ATUL JAIN, CGM (DESIGN), THDC INDIA LTD., ALAKNANDA BHAWAN, THDC INDIA LTD, RISHIKESH - 249201	10450000

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Major Research Projects

PI	Title	Sponsoring Agency	Total Outlay (Rs. in Lakhs)
Prof. Ekant Sharma	Design and development of new prototype for RIS-aided communication	IITB COMET Foundation, Bengaluru	110.30
Prof. Ram Sateesh Pasupuleti	A comprehensive GIS- based toolkit for investigating the cultural routes of bhotia's trade routes in Uttarakhand	DST, NEW DELHI	115.32
Prof. N.K. Goel	Development of International Centre of excellence for dams (ICOED)	Central water commission, Department of water resources, River development & Ministry Jal Shakti, Government of India	10800.99
Prof. Anil Kumar	Development of digital twin for centrifugal pump and system, pipelines providing sea water supply to main propulsion plant on board naval platforms	DRDO, Visakhapatnam ,Ministry of Defence	134.52

Senate approved PDC List

Appendix 'A'

Sl.No.	Name	Deptt.	Topic	Supervisor	Examiner (For./Ind.)	PDC Date
1	Mr. Mayank Singh	AMSC	STUDY OF CERTAIN QUASI-LINEAR HYPERBOLIC SYSTEMS OF PDES	Prof. Rajan Arora	Prof. Dehua Wang, University of Pittsburgh, USA Prof. Tommaso Ruggeri, University of Bologna, Italy	14.02.23
2	Mr. Naman Mirajkar	AR	BIOMIMICRY BASED THERMALLY RESISTANT WALLING UNIT DESIGN	Prof. Avlokita Agrawal	Prof. I.G.P. Rajapaksha, Univ.of Moratuwa, Sri Lanka Prof. Bishwajit Bhattacharjee, IIT Delhi Prof. Henry Feriadi, Duta Wacana Christian Univ., Indonesia	02.01.23
3	Mr. Deena Nath Gupta	B&B	STUDIES OF ANTIOXIDANT ENZYME PEROXIREDOXINS FROM CANDIDATUS LIBERIBACTER ASIATICUS AND ITS HOST CITRUS SINENSIS	Prof. A. K. Sharma	Prof. Mahesh Narayan, Univ. of Texas at El Paso, USA Prof. Christian Betzel, Univ. of Hamburg, Germany	29.12.22
4	Mr. Purusottam Mishra	B&B	FABRICATION OF ESSENTIAL OILS LOADED ELECTROSPUN NANOFIBERS FOR BIOMEDICAL USAGE	Prof. Ramasare Prasad Prof. Vikas Pruthi	Prof. Rohit Srivastava, IIT Bombay Prof. Dimitrios Lamprou, Queen's Univ. Belfast, UK	19.01.23
5	Ms. Parul Katiyar	B&B	ROLE OF EDCS IN NEURODEGENERATION AND IT'S PROTECTION BY SOME NEUROPROTECTIVE AGENTS	Prof. Partha Roy	Prof. Amal Kanti Bera, IIT Madras Prof. Rakesh K. Tyagi, JNU New Delhi	23.01.23
6	Mr. Viney Kumar	B&B	MECHANISTIC INSIGHT INTO THE METASTATIC BREAST CANCER AND BONE DISORDER AMELIORATIVE EFFECT OF A CONJUGATE COMPOUND, PTEROSTILBENEISOTHIOCYANATE (PTER-ITC)	Prof. Partha Roy	Prof. Rakesh K. Tyagi, JNU New Delhi Prof. Amal Kanti Bera, IIT Madras	23.01.23
7	Mr. Vinay Kumar	B&B	DESIGN AND DEVELOPMENT OF SILK PROTEIN-BASED COMPOSITE MATERIALS FOR BIOMEDICAL APPLICATIONS	Prof. P. Gopinath	Prof. Siddhartha Sankar Ghosh, IIT Guwahati Prof. Aditya Mittal, IIT Delhi	06.02.23
8	Ms. Komal Kushwaha	B&B	NUTRITIONAL PROFILE OF PAPAYA FRUIT AND NONDESTRUCTIVE PREDICTION OF RIPENING STAGES OF PAPAYA USING VOLATILE BIOMARKERS	Prof. Debabrata Sircar	Prof. Mukesh Jain, JNU New Delhi Prof. B. K. Sarma, BHU Varanasi	20.02.23
9	Ms. Banafsha Ahmed	CE	ANAEROBIC CO-DIGESTION OF THERMO-CHEMICALLY PRE-TREATED MUNICIPAL SOLID WASTE	Prof. A. A. Kazmi Dr. Vinay Kumar Tyagi	Prof. A. K. Gupta, IIT Kharagpur Prof. Makarand M. Ghangrekar, IIT Kharagpur Prof. Zhou Yan, NTU, Singapore	23.01.23
10	Mr. Abhinav Gupta	CE	ADAPTIVE ANALYSIS USING ISOPARAMETRIC AND ISOGEOMETRIC ELEMENTS:	Prof. Rajib Chowdhury Prof. Anupam	Prof. Emilio Martinez Paneda, Imperial College London, London Prof. Stephane P.A. Bordas, 2 Avenue de	01.02.23

			APPLICATION TOWARDS TOPOLOGY OPTIMIZATION, FRACTURE, AND MULTIPHYSICS PROBLEMS	Chakrabarti	Universite, Luxembourg	
11	Mr. Pushpraj Patel	CH	SUSTAINABLE GREYWATER TREATMENT THROUGH ADSORPTION AND ELECTROCOAGULATION PROCESS	Prof. Prasenjit Mondal	Prof. Kaustubha Mohanty, IIT Guwahati Prof. Anthony Szymczyk, Univ. de Rennes, France	12.01.23
12	Mr. Ram Singh	CH	TOWARDS THE DESIGN OF MIXED METAL (OXIDE) CATALYSTS AND LIGHT-RESPONSIVE LIGANDS USING QUANTUM CHEMISTRY CALCULATIONS	Prof. Prateek K. Jha	Prof. Vishal Agarwal, IIT Kanpur Prof. Harish Vashisth, Univ. of New Hampshire, USA	27.01.23
13	Ms. Anupama Kumari	CH	STUDIES ON THE FORMATION AND DISSOCIATION OF GAS HYDRATES IN POROUS SEDIMENTS	Prof. C. B. Majumder	Dr. N. Vedachalam, Ministry of Earth Sci. Chennai Prof. Kalachand Sain, WIHG Dehradun	02.02.23
14	Ms. Sumit Sharma	CSE	A STUDY ON DESIGNING ALL-OPTICAL MULTIPLIERS AND OPTICAL CHANNEL ROUTING IN PHOTONIC INTEGRATED CIRCUITS	Prof. Sudip Roy	Prof. Saraju P. Mohanty, Univ. of North Texas, USA Prof. Kyriakos Zoiros, Democritus Univ. of Thrace, Greece	12.01.23
15	Mr. Gaurav Kumar Nim	CY	SYNTHESIS OF FLUORESCENT PEROVSKITE NANOMATERIALS AND THEIR APPLICATIONS	Prof. Prasenjit Kar	Prof. Lorenzo Malavasi, Univ. of Pavia & INSTM, Italy Prof. Raju Kumar Gupta, IIT Kanpur	09.01.23
16	Mr. Abhishek Maurya	CY	PYRENE-BASED ORGANIC MATERIALS FOR ELECTRONIC APPLICATIONS	Prof. K. R. Justin Thomas	Prof. Parameswar K. Iyer, IIT Guwahati Prof. Rajneesh Misra, IIT Indore	20.02.23
17	Mr. Naveen Kumar	CY	CATALYTIC POTENTIALS OF VANADIUM AND TUNGSTEN COMPLEXES OF POLYDENTATE LIGANDS	Prof. M. R. Maurya	Prof. Dieter Rehder, Univ. of Hamburg, Germany Prof. Anil J. Elias, IIT Delhi	20.02.23
18	Ms. Km. Kavita Vishwakarma	ECE	FABRICATION AND CHARACTERIZATION OF METALOXIDE RESISTIVE RANDOM-ACCESS MEMORY DEVICES FOR DATA STORAGE AND ARTIFICIAL SYNAPSE	Prof. Arnab Datta	Prof. Shaibal Mukherjee, IIT Indore Prof. Adrian M. Ionescu, Swiss Federal Institute of Technology Lausanne, Switzerland	23.01.23
19	Mr. Sukhlal Sisodiya	EE	DEMAND-SIDE MANAGEMENT IN POWER DISTRIBUTION SYSTEM	Prof. G. B. Kumbhar	Prof. Alfredo Vaccaro, University of Sannio, Italy Prof. R. K. Saket, IIT (BHU) Varanasi	26.12.22
20	Mr. Prateek Singh	EE	AUTOMATED ARRHYTHMIA DETECTION USING ECG SIGNALS	Prof. Ambalika Sharma	Prof. Dinesh Kumar, RMIT University, Australia Prof. Pinaki Sarder, University of Florida, USA	29.12.22
21	Mr. Muneer V.	EE	INVESTIGATION ON THREE PHASE CHB BASED SAPF AND UPQC	Prof. Avik Bhattacharya	Prof. Santosh Kumar Singh, IIT (BHU) Varanasi Prof. Sanjib K. Panda, National University Singapore	18.01.23
22	Mr. Ashish Bahuguna	EQ	3-D FINITE ELEMENT MODELLING OF INDIAN TECTONIC PLATE TO INVESTIGATE THE INTRAPLATE STRESS DISTRIBUTION AND	Prof. D. Shanker	Prof. Boris Jeremic, University of California, USA Prof. Jiancang Zhuang, Graduate Univ. of Advanced Studies, Japan	31.01.23

23	Mr. Bishnu Prasad Mishra	ES	DEFORMATION GEOLOGICAL, MINERALOGICAL, AND GEOCHEMICAL STUDIES OF VOLCANOGENIC MASSIVE SULFIDE DEPOSITS IN BETUL BELT, CENTRAL INDIA	Prof. Pitambar Pati Dr. L. Lachhan Dora	Prof. Sakthi Saravanam Chinnasamy, IIT Bombay Prof. Joyashish Thakurta, Natural Resources Research Institute, USA	29.12.22
24	Mr. Abhirup Saha	ES	TRANSRESSIVE-REGRESSIVE CYCLES IN PERMIAN BARREN MEASURES FORMATION, PRANHITAGODAVARI VALLEY, INDIA- IMPLICATIONS ON PALAEOGEOGRAPHY	Prof. B. Bhattacharya	Prof. Santanu Banerjee, IIT Bombay Prof. Andrew La Croix, Univ. of Waikato, New Zealand	11.01.23
25	Mr. Rakesh Kumar	ES	RESPONSE OF DEEP SEA BENTHIC FORAMINIFERA ACROSS THE EOCENE - OLIGOCENE BOUNDARY OF THE SOUTHERN OCEAN	Prof. A. S. Maurya	Prof. Arun Deo Singh, BHU Varanasi Prof. Ajoy Kumar Bhaumik, IIT (ISM) Dhanbad	13.01.23
26	Ms. Akshita Gupta	HRE	RENEWABLE ENERGY FORECASTING BASED HYDROPOWER SCHEDULING	Prof. Arun Kumar	Dr. V. Jothiprakash, IIT Bombay Prof. Lennart Söder, KTH - RIT, Sweden	27.12.22
27	Mr. Mohit Singh Rana	HRE	NANOTECHNOLOGICAL INTERVENTIONS FOR MIXOTROPHIC MICROALGAE CULTIVATION AND BIOENERGY GENERATION	Prof. Sanjeev K. Prajapati	Prof. Gopalakrishnan K., Univ. of Stavanger, Norway Prof. Selvaraju Narayanasamy, IIT Guwahati	02.01.23
28	Mr. Haile Ademe Ayalew	HSS	THE ROLE OF REMITTANCES ON HUMAN CAPITAL FORMATION AND LABOUR MARKET OUTCOMES OF LEFT-BEHIND HOUSEHOLD MEMBERS IN ETHIOPIA	Prof. P. C. Mohanty	Prof. Minaketan Behera, JNU New Delhi Prof. Arup Mitra, SAU New Delhi	17.01.23
29	Mr. Zakir Hussain	HSS	POETICS OF PROTEST: DE- ORIENTALISING EUROCENTRIC HISTORY AND IDENTITY IN TARIQ ALI'S ISLAM QUINTET	Prof. Binod Mishra	Prof. Maya Shanker Pandey, BHU Varanasi Prof. Jose-Carlos Redondo-Olmedilla, University of Almeria, Spain	31.01.23
30	Ms. Meenakshi	HSS	DECONSTRUCTING MYTHOLOGY: A FEMINIST REVISIONIST ANALYSIS OF KAVITA KANE'S SELECT NOVELS	Prof. Nagendra Kumar	Prof. Priyanka Tripathi, IIT Patna Prof. Rajni Singh, IIT (ISM) Dhanbad	07.02.23
31	Mr. Ankit Raj	HSS	THE WEARY ROAD REDEFINED: A STUDY OF MYTHS AND ARCHETYPES IN KURT VONNEGUT'S SELECT FICTION	Prof. Nagendra Kumar	Prof. Banibrata Mahanta, BHU Varanasi Prof. Yogesh Kumar Sinha, Ohio University, USA	07.02.23
32	Mr. Shashikant Das	MIE	STUDY OF THERMOREGULATORY MECHANISM, SENSATION AND PERFORMANCE OF HUMAN BODY DURING COMMUTE IN A HOT THERMAL ENVIRONMENT	Prof. Sudhakar Subudhi	Prof. Amaresh Dalal, IIT Guwahati Prof. Sushanta Mitra, Univ. of Waterloo, Canada Prof. Perumal Nithiarasu, Swansea Univ. Bay, UK	29.12.22
33	Mr. Vipul Kumar Gupta	MIE	INVESTIGATIONS ON INCLUSION	Prof. Pradeep K. Jha	Prof. N. S. Reddy, Gyeongsang National University,	11.01.23

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			TRANSPORT AND SOLIDIFICATION BEHAVIOUR IN CONTINUOUS CASTING PROCESS USING MULTIPHASE ANALYSIS		South Korea Prof. Gour Gopal Roy, IIT Kharagpur	
34	Mr. Vanajara Maheshbhai Javarabhai	MIE	EXPERIMENTAL INVESTIGATION FOR THE FLOW OF R32 IN A CAPILLARY TUBE	Prof. Ravi Kumar Prof. Anil Kumar	Prof. Akio Miyara, Saga University, Saga-Shi, Japan Prof. Shaligram Tiwari, IIT Madras	14.02.23
35	Mr. Anish Kumar	MIE	STUDY OF PERISHABLE FOOD SUPPLY CHAINS	Prof. Pradeep Kumar Dr. Sachin K. Mangla	Prof. Parveen S. Goel, Director of Engg. & Continuous Improvement (Pacific Region), Canada Prof. S. G. Deshmukh, IIT Delhi	14.02.23
36	Mr. Abhishek Kumar Singh	MIE	DEVELOPMENT OF A PARALLEL MLPG SOLVER FOR HEAT CONDUCTION PROBLEMS	Prof. K. M. Singh	Prof. Shaligram Tiwari, IIT Madras Prof. Toshiro Matsumoto, Nagoya University, Japan	14.02.23
37	Mr. Amit Kumar Yadav	MIE	MODELING AND ANALYSIS OF SUSTAINABLE VACCINE SUPPLY CHAIN ISSUES FOR INDIAN HEALTHCARE SYSTEM	Prof. Dinesh Kumar	Prof. Prabhas Bhardwaj, IIT (BHU) Varanasi Prof. J. Paulo Davim, Univ. of Aveiro, PORTUGAL	20.02.23
38	Mr. Vijayapu Prasanna Kumar	MS	ASSESSING IMPAIRMENT OF BANK LOANS: INDIAN CONTEXT vis-à-vis CROSS-COUNTRY ANALYSIS	Prof. Sujata Kar	Prof. S. Narayan Rao, IIT Bombay Prof. Tao Chen, Nanyang Business School, Singapore Prof. M. Thenmozhi, IIT Madras	07.02.23
39	Mr. Jitendra Kumar	PH	REVEALING NON-RADIATIVE LOSSES IN HALIDE PEROVSKITES WITH PHOTOLUMINESCENCE MICRO-SPECTROSCOPY	Prof. Monojit Bag	Prof. Dinesh Kabra, IIT Bombay Prof. Ivan Scherblykin, Lund University, Sweden	30.12.22
40	Ms. Bharti Bhoy	PH	SHELL-MODEL STUDY FOR NEUTRON-RICH NUCLEI	Prof. P. C. Srivastava	Prof. A. K. Singh, IIT Kharagpur Prof. B. Alex Brown, Michigan State University, USA	02.02.23
41	Ms. Smruti Purohit	PH	PEROVSKITE BASED HETEROSTRUCTURES FOR PHOTOCATALYTIC APPLICATIONS	Prof. K. L. Yadav Prof. Soumitra Satapathi	Prof. Jayant Kumar, Univ. of Massachusetts Lowell, USA Prof. Venkata Krishnan, IIT Mandi	09.02.23
42	Ms. Tanmoyee Bhattacharya	WRD	HYDROLOGIC CHARACTERISTIC ANALYSIS IN GLACIERIZED BASIN CONSIDERING CLIMATE IMPACT, LAND USE CHANGES AND ELEVATION DEPENDENT BEHAVIOUR OF METEOROLOGICAL DATA	Prof. Deepak Khare Dr. Manohar Arora	Prof. Chandranath Chatterjee, IIT Kharagpur Prof. Ronny Berndtsson, Lund University, Sweden Prof. B. R. Chahar, IIT Delhi	03.01.23
43	Mr. Shlok Jindal	B&B	DEVELOPMENT OF NANOFIBERS AND HYDROGEL FOR DELIVERY OF ANTICANCER AGENTS	Prof. P. Gopinath	Prof. Harishkumar Madhyastha, University of Miyazaki, Japan Prof. Clare Hoskins, Univ. of Strathclyde, UK	23.11.22
44	Mr. Kartik Gehlot	B&B	BIOETHANOL PRODUCTION FROM LIGNOCELLULOSIC BIOMASS HYDROLYSATE BY CO-FERMENTATION	Prof. Sanjoy Ghosh	Prof. P. K. Mishra, IIT (BHU) Varanasi Prof. Debasish Das, IIT Guwahati	23.12.22
45	Mr. Ankit Sharma	CE	EVALUATION OF AGED BITUMINOUS	Prof. G. D.	Prof. Rajan Choudhary, IIT Guwahati	13.12.22

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			PAVING MIXTURES REJUVENATED WITH DIFFERENT RECYCLING AGENTS	Ransinchung R.N. Prof. Praveen Kumar Dr. DSNV Amar Kumar	Prof. Dharamveer Singh, IIT Bombay Prof. Aravind Krishna Swamy, IIT Delhi	
46	Ms. Shalini	CSE	DATA SANITIZATION APPROACHES FOR SENSITIVE ITEMSET HIDING	Prof. Durga Toshniwal	Prof. Jerry Chun-Wei Lin, Professor, Nottveitvegen Norway Prof. Pabitra Mitra, IIT Kharagpur	22.12.22
47	Ms. Abhilasha Chauhan	CY	VANADIUM, MOLYBDENUM AND TUNGSTEN COMPLEXES, THEIR REACTIVITY AND CATALYTIC APPLICATIONS	Prof. M. R. Maurya	Prof. A. K. Singh, IIT Delhi Prof. Rajendra Srivastava, IIT Ropar	30.11.22
48	Ms. Dimpal	CY	SYNTHESIS OF METAL FERRITE NANOPARTICLES AND STUDIES ON THEIR MAGNETIC PROPERTIES	Prof. P. Jeevanandam	Prof. Ryan M. Richards, Colorado School of Mines, USA Prof. Ashok Kumar Mishra, IIT Madras Prof. Debabrata Pradhan, IIT Kharagpur	01.12.22
49	Mr. Hari Shankar	CY	CONTROLLING THE PHOTOPHYSICAL PROPERTIES OF FLUORESCENT PEROVSKITE NANOCRYSTALS BY SHAPE, SIZE AND DIMENSIONALITY	Prof. Prasenjit Kar	Prof. Raju Kumar Gupta, IIT Kanpur Prof. Lorenzo Malavasi, University of Pavia & Instm, Italy	08.12.22
50	Mr. Inderpal	CY	SYNTHESIS, SPECTRAL AND ELECTROCHEMICAL REDOX PROPERTIES OF MESO?-FUNCTIONALIZED CORROLES FOR SENSING, NLO AND CATALYTIC APPLICATIONS	Prof. M. Sankar	Prof. Claude P. Gros, Universite de Bourgogne, France Prof. Dillip Kumar Chand, IIT Madras	23.12.22
51	Mr. Pravin Kumar	EE	ISLANDING DETECTION AND VOLTAGE-FREQUENCY CONTROL OF MICROGRID	Prof. Vishal Kumar Prof. Barjeev Tyagi	Prof. Suresh Chandra Srivastava, IIT Kanpur Prof. Wencong Su, Univ. of Michigan-Dearborn, USA	21.11.22
52	Mr. Harshit Mohan	EE	DIRECT POWER CONTROL OF INDUCTION MOTOR DRIVES	Prof. M. K. Pathak Dr. Sanjeet Dwivedi	Prof. Ranjit Mahanty, IIT (BHU) Varanasi Prof. G. Bhuvaneswari, IIT Delhi Prof. Praveen Kumar, IIT Guwahati	21.11.22
53	Mr. Jitendra Sharma	EE	PID CONTROLLER DESIGN FOR INTERVAL TYPE SYSTEMS USING STABILITY BOUNDARY LOCUS	Prof. Rajendra Prasad Prof. Yogesh Vijay Hote	Prof. Biao Huang, University of Alberta, Canada Prof. Matthew Joordens, Deakin University, Australia	23.11.22
54	Mr. Jaspreet Singh	ES	ASSESSMENT OF ROCK MASS CHARACTERISTICS AND SLOPE STABILITY USING 3D NUMERICAL MODELING AND DISCRETE FRACTURE NETWORK IN GARHWAL HIMALAYA, INDIA	Prof. S. P. Pradhan Prof. Mahendra Singh	Prof. Arindam Basu, IIT Kharagpur Prof. Kripamoy Sarkar, IIT (ISM) Dhanbad	02.12.22
55	Mr. Saurabh Sangal	HRE	STUDY OF HYDRO-ABRASIVE EROSION OF HYDRO TURBINE UNDER DIFFERENT OPERATING	Prof. M. K. Singhal Prof. R. P. Saini Dr. G. S. Tomar	Prof. Ujjwal K. Saha, IIT Guwahati Prof. Eduard Doujak, Fluid-Flow-Machinery, Austria Prof. Arindam Banerjee, Lehigh University, USA	22.11.22

			CONDITIONS			
56	Mr. Rajesh Kumar	HRE	INTEGRATED SCHEDULING OF SOLAR AND WIND ENERGY WITH PUMPED STORAGE	Prof. Arun Kumar	Prof. Akhtar Kalam, College of Engineering & Science, Victoria University, Australia Prof. Praveen Kumar, IIT Guwahati	30.11.22
57	Ms. Deepshikha Paliwal	HSS	CONFIDENCE CALIBRATION IN PERCEPTUAL AND INTELLIGENCE TASKS: ROLE OF NEED FOR CLOSURE, GENDER, AND ACADEMIC DOMAIN	Prof. R. M. Singh	Prof. Kamlesh Singh, IIT Delhi Prof. Indramani Lal Singh, BHU Varanasi	11.11.22
58	Ms. Neha Rai	MA	CERTAIN RESULTS ON THE MAXIMAL DENSITY OF SETS WITH MISSING DIFFERENCES FROM A GIVEN SET	Prof. R. K. Pandey	Prof. Georges Grekos, Univ. Jean Monnet de Saint-Etienne, France Prof. Rupam Barman, IIT Guwahati	10.11.22
59	Mr. Sarvesh Saini	MIE	MODELING, DEVELOPMENT AND CONTROL OF A BILATERAL MASTER-SLAVE ROBOTIC SYSTEM AIMING NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY	Prof. P. M. Pathak	Prof. Asokan Thondiyath, IIT Madras Prof. Shyamanta M. Hazarika, IIT Guwahati	16.11.22
60	Mr. Vineet Kumar	MIE	STRUCTURAL RESPONSE OF FGM PLATE WITH VARIABLE THICKNESS	Prof. S. P. Harsha Prof. V. H. Saran	Prof. Timon Rabczuk, Bauhaus Univ. Weimar, Germany Prof. Marco DI Sciuvia, Politecnico di Torino Corso Duca degli Abruzzi, Italy	16.11.22
61	Mr. Subodh Khullar	MIE	NUMERICAL STUDY OF FORMATION AND MITIGATION OF VORTEX ROPE IN ELBOW DRAFT TUBE	Prof. K. M. Singh Prof. B. K. Gandhi Prof. Michel J. Cervantes	Prof. Eldad Avital, Queen Mary University of London, UK Prof. Chunming Ji, Tianjin University, China	05.12.22
62	Mr. Sandeep Kumar Singh	MIE	ATOMISTIC SIMULATIONS TO STUDY STATIC AND DYNAMIC BEHAVIOUR OF MULTI-ELEMENTAL ALLOYS	Prof. Avinash Parashar	Prof. Pavan Kumar Kankar, IIT Indore Prof. Rajnesh Tyagi IIT (BHU) Varanasi	13.12.22
63	Mr. Anurag Deepak	MIE	MODELLING AND ANALYSIS OF A REVERSE LOGISTICS DECISION SUPPORT SYSTEM FOR BIOMEDICAL WASTE MANAGEMENT	Prof. Dinesh Kumar Prof. Varun Sharma	Prof. Amol Singh, IIM Rohtak Prof. J. Paulo Davim, University of Aveiro, Portugal	14.12.22
64	Mr. Shubham Sharma	MIE	SEDIMENT EROSION OF HYDRODYNAMIC MACHINES	Prof. B. K. Gandhi	Prof. Ole Gunnar Dahlhaug, Norwegian Univ. of Sci. & Tech., Norway Prof. A. P. Harsha, IIT (BHU) Varanasi	19.12.22
65	Mr. Yashpal	MME	TRIBOLOGICAL BEHAVIOR OF SPARK PLASMA SINTERED ZRB2-SIC BASED COMPOSITES	Prof. B. V. Manoj Kumar	Prof. Young-Wook Kim, University of Seoul, South Korea Prof. Amartya Mukhopadhyay, IIT Bombay	23.11.22
66	Mr. Ashutosh Samadhiya	MS	SUSTAINABILITY THROUGH TPM AND DESIGN THINKING	Prof. Rajat Agrawal	Prof. Athanasios (Thanos) Papadopoulos, The University of Kent, UK Prof. Dinesh K. Sharma, University of Maryland Eastern Shore, USA	22.11.22
67	Mr. Shubham Sharma	MS	UNLEARNING AS A MECHANISM TO TRANSFORM HIGHER EDUCATIONAL INSTITUTIONS: A CASE OF	Prof. Usha Lenka	Prof. Susmita Mukhopadhyay, IIT Kharagpur Prof. Neharika Vohra, IIM Ahmedabad	09.12.22

			CENTRALLY FUNDED TECHNICAL INSTITUTIONS IN INDIA			
68	Mr. Farhan Mustafa	MS	MARKET Pervasiveness Driven by Belief and Ethics Based Marketing Practices	Prof. Vinay Sharma	Prof. Raj Agnihotri, Iowa State University-Ivy College of Business, USA Prof. Dinesh Kumar Sharma, University of Maryland Eastern Shore, USA Prof. Devashish Das Gupta, IIM Lucknow	16.12.22
69	Mr. Himanshu Agarwal	MS	A Study of Impact of Information Technology Usage on Cognitive Aspects in Mobile Commerce Context	Prof. Gaurav Dixit	Prof. Veena Bansal, IIT Kanpur Prof. Hemlata Sharma, Sheffield Hallam Univ., UK	21.12.22
70	Mr. Jignesh Gangdasbhai Hirpara	NT	Synthesis and Study of Metal Oxynitrides Thin Films for Anticorrosive Applications	Prof. Ramesh Chandra	Prof. Dawid Janas, Silesian Univ. of Technology, Poland Prof. Joondong Kim, Incheon National Univ., Korea Prof. Yogendra K. Mishra, Univ. of Southern, Denmark	23.12.22
71	Mr. Dibyendu Mahato	PH	Electron and Positron Scattering from Atomic and Molecular Systems	Prof. Lalita Sharma Prof. Rajesh Sivastava	Prof. Man Mohan, Univ. of Delhi, Delhi Prof. Murtadha A. Khakoo, California State University, USA	09.12.22
72	Mr. Ramesh Kumar	PH	Iontronics in Halide Perovskites for Optoelectronics and Off-Grid Energy Applications	Prof. Monojit Bag	Prof. Dinesh Kabra, IIT Bombay Prof. Bjorn Lussem, Universitat Bremen, Germany Prof. D. Venkataraman, University of Massachusetts Amherst, US	09.12.22
73	Ms. Alisha Banga	PT	Hybrid Machine Learning Models for Enhancing Air Quality and Energy Efficiency in Smart Cities	Prof. S. C. Sharma	Prof. Ravi Shankar Singh, IIT (BHU) Varanasi Prof. Abhishek Bichhawat, IIT Gandhinagar	21.11.22
74	Mr. Avinash Kumar	PT	Development of Sustainable Ethylene Scavenging Packaging Material Based on Pine Needles Biomass	Prof. Kirtiraj K. Gaikwad Prof. S. P. Singh Prof. Ashish A. Kadam	Prof. Youn Suk Lee, Univ. Mirae, South Korea Prof. Pramod V. Mahajan, Leibniz Institute for Agricultural Engg. & Bio-economy, Germany	28.11.22
75	Mr. Laxman Kumar Pandey	PT	Modified Pulp of Eucalyptus Teretiformis and Leucaena Leucocephala for Energy and Chemical Saving	Prof. Dharm Dutt Prof. S. P. Singh	Prof. Yonghao Ni, Univ. of New Brunswick, Canada Prof. Vivek Kumar, IIT Delhi	14.12.22
76	Mr. Natthan Singh	AMSC	Enhancing the Performance of Multi-Criteria Decision-Making Techniques through Hybridization of Electron and Positron Scattering from Atomic and Molecular Systems	Prof. Millie Pant	Prof. Xiao-Zhi Gao, University of Eastern Finland, Finland Prof. Pradip Kumar Bala, IIM Ranchi	20.03.23
77	Mr. Mukesh Kumar Meher	B&B	Heparin Based Nanocomposites for Biomedical Applications	Prof. K. M. Poluri	Prof. Harishkumar Madhyastha, Univ. of Miyazaki, Japan Prof. Umesh R. Desai, Virginia Commonwealth	16.03.23

					Univ., US	
78	Ms. Pooja Agarwal	CE	FLOW AND AMMONIUM TRANSPORT THROUGH VARIABLY SATURATED POROUS MEDIA	Prof. P. K. Sharma	Prof. Sekhar Muddu, IISc. Bangalore Prof. Ashok Sharma, Victoria Univ., Australia	09.03.23
79	Mr. Gaurav Bhardwaj	CSE	BIPED ROBOT TRAJECTORY PLANNING, SIMULATION AND CONTROL FOR NON-FLAT TERRAINS	Prof. R. Balasubramanian	Prof. Dhirendra Bahuguna, IIT Kanpur Prof. V. Vetrivel, IIT Madras	23.02.23
80	Mr. Rishabh Kishore	ECE	SPUTTERED INDIUM-GALLIUM-ZINC-OXIDE (IGZO) FILM FOR ELECTRONIC AND PHOTONIC DEVICES: MATERIAL ASSESSMENT, DEVICE FABRICATION AND CHARACTERIZATION	Prof. Arnab Datta	Prof. M. M. De Souza, Univ. of Sheffield, UK Prof. V. Ramgopal Rao, IIT Delhi	24.02.23
81	Mr. Jadhav Aakash Vilas Vaishali	ECE	INVESTIGATION OF GAN HIGH ELECTRON MOBILITY TRANSISTOR FOR HIGH FREQUENCY APPLICATION	Prof. Biplab Sarkar	Prof. Y. S. Chauhan, IIT Kanpur Prof. V. Ramgopal Rao, IIT Delhi	06.03.23
82	Mr. Mohd Firoj	EQ	3D NONLINEAR SEISMIC RAFT-PILE-SOIL-STRUCTURE INTERACTION FOR NUCLEAR POWER PLANTS	Prof. B. K. Maheshwari	Prof. Madhavi Latha Gali, IISc Bangalore Prof. S. P. Gopal Madabhushi, University of Cambridge, UK	16.03.23
83	Mr. Taye Tesfaye Fisiha	HSS	CLIMATE CHANGE ADAPTATION PRACTICES IN AGRICULTURE, THE STATUS OF FOOD SECURITY AND CHILD NUTRITION: A STUDY OF SMALLHOLDER FARMERS IN RURAL ETHIOPIA	Prof. Diptimayee Nayak	Prof. Surendra Kumar, Univ. of Delhi, Delhi Prof. John G. Mcpeak, Syracuse University, US	06.03.23
84	Mr. Ravikant	IIC	SYNTHESIS AND CHARACTERIZATION OF NANOSTRUCTURED METAL NITRIDE ELECTRODES FOR ENERGY STORAGE APPLICATIONS	Prof. Ramesh Chandra	Prof. Bharat B. Kale, CMET Pune Prof. Rabah Boukherroub, Institute of Electronics Microelectronics & Nanotechnology, France	20.03.23
85	Ms. Shobha Rani	MA	PERFORMANCE MODELING AND ANALYSIS OF STATE DEPENDENT MARKOVIAN QUEUES	Prof. Madhu Jain	Prof. N. Hemachandra, IIT Bombay Prof. Dinesh K. Sharma, University of Maryland Eastern Shore, USA	20.03.23
86	Mr. Ramver	MIE	INVESTIGATIONS ON TANDEM MICRO-EDM AND MICROECM PROCESSES	Prof. Akshay Dvivedi Prof. Pradeep Kumar	Prof. Saurav Goel, London South Bank Univ., UK Prof. Ramkumar J., IIT Kanpur	23.02.23
87	Mr. Ramandeep Singh	MIE	EXPERIMENTAL INVESTIGATIONS AND MODELLING FOR SUSTAINABLE MACHINING OF DIFFICULT-TO-CUT MATERIALS USING ULTRASONICALLY ATOMIZED NANOCUTTING FLUIDS	Prof. Varun Sharma	Prof. Harpreet Singh, IIT Ropar Prof. Vadim Silberschmidt, Univer. Loughborough, UK	06.03.23
88	Ms. Meenakshi	NT	SYNTHESIS AND CHARACTERIZATION OF METAL OXIDE THIN FILMS FOR	Prof. Ramesh Chandra	Prof. Mahesh Kumar, IIT Jodhpur Prof. Rajesbdra S. Dhaka, IIT Delhi	06.03.23

			SUPERCAPACITOR APPLICATION			
89	Mr. Sandeep Saini	PH	INVESTIGATION OF FERRITES AS ENERGY MATERIAL FOR HYDROELECTRIC CELL DEVICE FABRICATION	Prof. K. L. Yadav Dr. R. K. Kotnala	Prof. Santosh K. Kurinec, Rochester Institute of Tech., US Prof. Salvador Pane Vidal, Swiss Federal Institute of Tech. (ETH) Zurich, Switzerland	06.03.23
90	Mr. Brahma Prakash Dubey	PH	NANOSTRUCTURED LITHIUM CERAMIC AND POLYMER COMPOSITE ELECTROLYTES FOR ALL SOLID-STATE LITHIUM BATTERIES	Prof. Yogesh K. Sharma Prof. V. Thangadurai	Prof. K. Ramesha, CSIR-CECRI-Madras Complex, Chennai Prof. Amartya Mukhopadhyay, IIT Bombay	21.03.23
91	Mr. Bhavesh Jain	TRS	DEVELOPMENT OF ROAD ASSET MANAGEMENT SYSTEM (RAMS) FOR SMART CITIES OF INDIA	Prof. M. Parida Prof. M. Ramesh Dr. Devesh Tiwari	Prof. Arun Kumar, RMIT University, Australia Prof. Rajan Choudhary, IIT Guwahati	06.03.23
92	Mr. Priyabrata Mandal	PPE	ION TRANSPORT BEHAVIOUR THROUGH ELECTRO-MEMBRANES LEADING TO INDUSTRIAL PROCESS OPTIMIZATION	Prof. Sujay Chattopadhyay	Prof. Jayant M. Modak, IISc Bengaluru Prof. Matthias Wessling, RWTH Aachen Univer., Germany	16.03.23
93	Mr. Anubhav Goel	PPE	MODELING, OPTIMIZATION, AND CONTROL OF PARABOLIC TROUGH SOLAR COLLECTOR FOR INDUSTRIAL PROCESS HEATING APPLICATIONS	Prof. Gaurav Manik	Prof. Manojkumar C. Ramteke, IIT Delhi Prof. Srinivas Palanki, West Virginia Univer., USA	17.03.23
94	Mr. Sabyasachi Swain	WRDM	A CRITICAL INVESTIGATION OF DROUGHT CHARACTERIZATION UNDER CLIMATIC AND ANTHROPOGENIC ALTERATIONS	Prof. S. K. Mishra Prof. Ashish Pandey	Prof. Eldho T. I., IIT Bombay Prof. Ronny Berndtsson, Lund University, Sweden	22.03.23


 15 MAY 2023

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE



FINANCIAL STATUS - 2022-23


15 MAY 2023

FINANCIAL STATUS - OH-31, OH-35 AND OH-36

(Rs. In crores)

Expenditure Head	Components	Budget		Expenditure			Pending Bills
		Approved by BoG	Received from MoE	From MoE Funds	From IRG/ General Corpus	Total	
OH-31	Pension , Fellowship & Non Salary Components	283.00	269.83	269.83	41.38	311.21	10.00
	Interest on HEFA loan	20.00	16.29	16.29	0.00	16.29	0.00
OH-35	Creation of Capital Assets	125.00	104.94	104.94	30.82	135.76	20.00
OH-36	Salary (Teaching & Non-Teaching)	265.00	259.56	259.56	0.00	259.56	0.00
Total (OH-31+ OH-35+OH-36)		693.00	650.62	650.62	72.20	722.82	30.00

OH-31

Rs. in Crore

Expenditure Head	Components	Budget		Expenditure			Pending Bills
		Approved by BoG	Received from MoE	From MoE Funds	From IRG/ General Corpus	Total	
OH-31	Pension	99.40		87.04	15.62	102.66	0.00
	Fellowship	69.20		61.45	14.69	76.14	0.00
	Contractual Staff/ Manpower	41.20	269.83	41.52	0.00	41.52	0.00
	Non Salary	73.20		79.82	11.07	90.89	10.00
	Interest on HEFA loan	20.00	16.29	16.29	0.00	0.00	0.00
	Total (OH-31)	303.00	286.12	286.12	41.38	311.21	10.00

5 MAY 2023

OH-35

Rs. in Crore

Expenditure Head	Components	Budget		Expenditure			Pending Bills
		Approved by BoG	Received from MoE	From MoE Funds	From IRG/ General Corpus	Total	
OH-35	Development of Laboratory Infrastructure & Central Facilities	40.00				59.74	11.50
	Library (Books & Journals)	20.00				15.43	3.50
	Building and Works	40.00	104.94	104.94	30.82	37.28	5.00
	Building Expenditure under EWS	25.00				23.31	-
	Total (OH-35)	125.00	104.94	104.94	30.82	135.76	20.00

OH-36

Rs. in Crore

Expenditure Head	Components	Budget		Expenditure			Pending Bills
		Approved by BoG	Received from MoE	From MoE Funds	From IRG/ General Corpus	Total	
OH-36	Salary Teaching Staff	195.50	259.56	194.67	-	194.67	-
	Salary Non-Teaching Staff	69.50		64.89	-	64.89	-
	Total (OH-36)	265.00	259.56	259.56	-	259.56	-

INTERNAL RECEIPTS

Rs. in Crore

S1. No.	HEADS	Actual Receipts in 2021-22	IRG 2022-23
1	IRG (Fee, Interest, user charges, etc.)	96.48	97.00
2	Income committed for repayment of premium of HEFA Loan	52.43	52.43
3	IRG available to meet out the shortfall of OH-31	44.05	44.57

STATUS HEFA PROJECTS

15 MAY 2023

Status of HEFA Projects 2022-23

Sl. No.	Project proposed/Sanctioned	Project Cost after Escalation	Date of Sanctioned from HEFA	Sanctioned by HEFA	Expenditure from HEFA
1	Construction of Student Hostel 800 capacity	110.00		80.00	79.83
2	Construction of faculty residence at Vikas Nagar	153.37	22.10.2018	119.37	119.37
3	33 KV underground cable from Ramnagar to IIT Roorkee (UPCL)	8.57	Rs. 275.94 Crore	8.57	8.57
4	Ultra High Speed secured wired and wireless Internet at IITR campus	73.00		68.00	67.86
5	Chilled water cooler system for Lecture Hall complex -I & II	21.43	27.11.2018	21.43	15.13
6	Construction of Academic Building for Humanities and Mathematics department.	72.00	Rs. 87.43 Crore	66.00	66.00
7	Construction of Western Academic Block (14284 Sq. M.)	71.42	23.06.2020	71.42	27.84
8	New building for Chemistry Department (14600 Sq. M.)	89.48	Rs. 160.90 crore	89.48	27.34
	Total	599.27		524.27	411.93

HEFA PROJECTS - APPLIED FOR COST ESCALATION TO MOE

S. No	Project Name	Loan approved	Present Cost (Estimated with escalation)	Difference required
1.	Construction of Student Hostel 800 capacity	80.00	110.00	30.00
2.	Construction of faculty residence at Vikas Nagar	119.37	153.37	34.00
3.	Ultra-High Speed secured wired and wireless Internet at IITR campus	68.00	73.00	5.00
4.	Construction of Academic Building for Humanities and Mathematics department.	66.00	72.00	6.00
	Total	333.37	408.37	75.00

NEW PROJECTS APPLIED BUT NOT APPROVED

Sl. No.	Project proposed/Sanctioned	Date of Application	Cost of projects	Expenditure from General Corups F.Y (2022-23)	Remarks
1	Comprehensive repair and renovation of old eight hostels including HVAC of common areas	Dec-20	118.00		File submitted to MoE and regular follow up but not yet approved
2	Reorganization augmentation and renovation of Academic Spaces		130.00		
3	New academic Block near Department of Earth Sciences		40.00		
4	Southern Academic Block		18.00		
5	South Eastern Academic Block		14.00		
6	Upgradation of Hostel Network of IIT Roorkee campus	June 2022	68.00	14.50	
	Total		388.00	14.50	

STATUS

AUDIT REPORT AND AUDIT PARAS

15 MAY 2023

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STATUS OF SEPARATE AUDIT REPORT (SAR) FOR THE FINANCIAL YEAR 2021-22

Sl. No.	Particulars	Dates
1	Date of Finalization of Accounts by the Institute	24.06.2022
2	Date of Approval of Balance Sheet by the Chairman BOG of the Institute	01.07.2022
3	Date of Submission of Accounts to AG	01.07.2022
4	Commencement of Inspection of Accounts	07.07.2022
5	Completion of Inspection of Accounts by AG	27.07.2022
6	Date of Approval of Accounts by Inspection Officer	27.07.2022
7	Date of Dispatch of Audit Certificate and Report by AG in English	07.10.2022
8	Date of Approval of Audit Report by the Chairman BoG of the Institute	11.10.2022
9	Laying in Parliament	14.12.2022

TRANSACTION AUDIT-2020-21 (AUDIT INSPECTION REPORT-AIR)

Paras details	Number of Paras
(i) Outstanding Audit Paras up-to 2019-20	31
(ii) Less: paras dropped up-to 2019-20	11
(iii) Remaining Paras	<u>20</u>
(iv) Add Paras raised during 2020-21	13
Total Paras (up to March 2021)	33

- The replies of the audit paras already submitted to the Audit.
- The Indian Audit and Accounts Department, Office of the Director General of Audit (Central) Lucknow, Branch Office Prayagraj has conducted the External Audit for F.Y 2021-22 from 10.10.2022 to 12.12.2022.
- Audit report is awaited.

MAY 2023
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**INDIAN INSTITUTE OF TECHNOLOGY
ROORKEE**

Sub: Guidelines to appoint Consultants

The following Committee was constituted by the Director vide Office order No.IITR/E.S. (Wing 'A')/14198/E-Committee dated March 10, 2023.

- | | | |
|--------------------------------|---|------------------|
| 1. Dean, Administration | : | Chairperson |
| 2. Dean, SRIC | : | Member |
| 3. Registrar | : | Member |
| 4. Finance Officer | : | Member |
| 5. Assistant Registrar (ES-II) | : | Member Secretary |

The Committee recommends following policy/guideline for appointment of retired employees (both internal & external) as Consultants. Such appointments should be done through the prescribed guidelines which are presented below:

There shall be two categories of consultants:

- (1) Those retired in group 'A' services or equivalent will be considered as "Senior Consultant".
- (2) Those retired in group 'B' services or equivalent will be considered as "Consultant".

The Committee did not recommend any re-appointment for a Group - 'C'/'D' category staff. In case of any such need, the appointment may be done through outsourcing agency.

PARAMETER	PROCESS
Recruitment process of Consultants	1. The Establishment Section will advertise the vacancy of such consultant(s) on the Institute website after approval of the Competent Authority. 2. The eligible personnel will be selected through a selection committee constituted by the Competent Authority. The selection committee may adopt either walk-In interview process or selection through shortlisting on the basis of applications received.

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Remuneration		SENIOR CONSULTANT	CONSULTANT
	For Retired Pensionable Employees	The remuneration will be fixed as per the Pay Fixation norms. i.e. "Last Pay Drawn minus Pension" and admissible DA. However, only the benefit of revision of DA may be granted as revised consultancy fee at the time of renewal of the agreement.	The remuneration will be fixed as per the Pay fixation norms. i.e. "Last Pay Drawn minus Pension" and admissible DA. However, only the benefit of revision of DA may be granted as revised consultancy fee at the time of renewal of the agreement.
	For Retired Non-Pensionable Employees	The consultants will be paid a negotiated consolidated pay with a maximum ceiling of Rs.60000/- (Rs. Sixty thousand only). An increment of 5% on annual basis may be considered on the recommendation of Head at the time of renewal	The consultants will be paid a negotiated consolidated pay with a maximum ceiling of Rs.50000/- (Rupees Fifty thousand only). An increment of 5% on annual basis may be considered on the recommendation of Head at the time of renewal
	Conveyance	Rs.5,000/- pm fixed for all categories	
	Note: Enhanced remuneration may be paid to deserving official on case to case basis with the approval of Competent Authority with suitable justification on account of special expertise/experience in the concerned field		
Leave	The Consultant will be granted total 12 (Twelve) days leaves in a year, which will not be carried forward in case of renewal of contract. For shorter period of consultants' job the number of leaves will be apportioned suitably		
Tenure	The tenure of appointment will be initially for one year (or a shorter period as per the requirement), which can be extendable upto the age of 65 years (maximum) as per the requirement of the Institute. However, in exceptional cases, the tenure may be extended, subject to the recommendation by a Special Appraisal Committee to be appointed by the Dy. Director (Operations)		

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Contract	The consultant will have to sign a contract containing the Terms & Conditions mentioned in Annexure. Such contract should on each renewal (if renewed). The contract can be terminated with one month's notice from either side.
Constitution of the Selection Committee	The selection Committee will be constituted by the Director.

The Committee also suggested that the existing re-employed staff members be considered under the above consultants' position at the time of the renewal of running re-employment service.


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AGREEMENT OF ENGAGEMENT

ARTICLE OF AGREEMENT MADE ON THE _____ DAY OF _____ Two thousand and _____ between Shri/Smt _____ son/daughter of Shri _____ a permanent resident of _____ the first part – Hereinafter referred as party of the first part.

AND

Indian Institute of Technology Roorkee (hereinafter called "IITR"), of the second part – Hereinafter referred as party of the second part.

Whereas, IITR has engaged the party of the first part as Senior Consultant/Consultant in IITR and the party of the first part has agreed to serve IITR as Senior Consultant/Consultant on the terms and conditions hereinafter contained. NOW, THESE PRESENTS WITNESS AND THE PARTIES HERE TO RESPECTIVELY AGREE AS FOLLOWS:

- (i) That the party of the first part will carry out the assignment entrusted to him/her and shall submit to the orders of IITR and its officers and authorities under whom he/she may, from time to time, be placed by IITR and shall continue to work under this agreement for the term of _____ months (renewable on yearly basis) depending upon the need, with effect from _____ subject to the provisions contained herein.
- (ii) That the party of the first part will devote his/ her whole time towards his/ her duties and at all times comply with the relevant rules and directions issued by IITR in relation to his/her engagement of the work assigned to him/her.
- (iii) That the remuneration of the party of the first part will be fixed as per the Pay fixation norms. i.e. "Last Pay Drawn minus Pension" and admissible DA. However, only the benefit of revision of DA may be granted as revised consultancy fee at the time of renewal of the agreement.

OR

That for carrying out the work of Senior Consultant/Consultant, the party of the FIRST part will be paid a negotiated consolidated pay with a maximum ceiling of Rs...../- (Rupees _____ - only). An increment of 5% on annual basis may be considered on the recommendation of Head at the time of renewal


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- (iv) That the party of the first part will be paid a fixed conveyance amount of Rs.5000/ p.m.
- (v) That the party of the first part will be granted total 12 (Twelve) days leaves in a year on pro-rate basis i.e. one day leave per month, which will not be carried forward in case of renewal of contract. For shorter period of consultants' job the number of leaves will be apportioned suitably.
- (vi) That the contract can be terminated with one month's notice from either side.
- (vii) That the party of the first part, without the permission of IITR shall not disclose to any person any information and data that may be supplied to him/her by IITR or by any other person under the directions of IITR or any other information that may come to his/her knowledge directly or indirectly during the course or by virtue of his/her engagement with IITR.
- (viii) That the party of the first part undertakes all other Terms and Conditions of service and rules of discipline and conduct as contained in the Institute Statutes and any other rules framed there under or otherwise shall be applicable.
- (ix) That besides the above, if any matter which is not covered in the agreement of in respect of which no provision has been made, the decision of IITR in all such matters will be final and binding.

IN WITNESS THEREOF, the party of the first part and (Authorized Officer of IITR) for an on behalf of Indian Institute of Technology Roorkee have herein set and subscribed their respective hands on the day, month and year first above written.

Executed by

WITNESS:

(Name of the Senior Consultant/Consultant) 1.
At Roorkee in the presence of : 2.

Executed by

WITNESS:

(Indian Institute of technology Roorkee) 1.
THROUGH (Authorized Officer) 2.
At Roorkee in the presence of:


15 MAY 2023

Appendix 'E'
Item No. BOG/66.18

Proposed Qualifications and Duties for the post of Jr. Technical Architect.

Name of the Post	Essential	Desirable
Jr. Technical Architect	1. Bachelor's Degree in Architecture (B.Arch); preferably, first division from a recognized University or Institution. 2. Registered with the Council of Architecture (COA). 3. 03 years relevant experience; preferably, working experience in a Higher Education Institution.	1. Master's Degree in Urban Design/Design/Architecture / Building Engineering & Management. 2. Practical hands-on knowledge of the relevant software(s) used in architectural practices i.e. Auto-CAD, Sketch-up, Adobe- Photoshop and MS Office etc.

Duties to be performed are as follows:

1. To coordinate all planning activities and works in close liaison with other disciplines involved in project planning.
2. To prepare preliminary drawings/detailed drawings/ layout plans/ presentation drawings/perspective/3D views.
3. To maintain drawing records & reference books/data.
4. Interaction & coordination with users, consultants/engineers & executing agencies and to ensure the timely release of project drawings commensurate with the pace of work.
5. Participating in various work conferences/meetings and other miscellaneous project-oriented activities.
6. To assist the Institute Architect in his administrative and technical functions.


15 MAY 2020

Appendix 'F'
Item No. BOG/66.25

Recommendations of the duly Constituted Committee on the following issues:

Sl. No.	Issue	Decision of the COmmittee
1.	Director, IIT Roorkee shall be the Chairman (Ex Officio)	Agreed and recommended for incorporation in the new (proposed) rules and bye-laws of IITRAA
2.	The Chairman shall: 1. Chair the Annual General Meeting 2. Have absolute power to dissolve the EC, if it does not function in the interest of the Institute. 3. Approve all the purchases beyond Rs.50,000/- 4. Appoint Returning Officer for the election of the President and Vice President 5. Approve any change in the Memorandum, Rules and Regulations and Bye-Laws. 6. Approve Annual Budget	Agreed upon all points except on point no.2 and 4 and recommended for incorporation in the new (proposed) rules and bye-laws of IITRAA. The recommendations for point no.: 2. Chairman (proposed) have absolute power to dissolve the EC, if it does not function in the interest of the Alma-mater, on the recommendation of DoRA, IITR and in consultation with President, IITRAA.*** 4. Chairman (proposed) shall appoint Returning Officer for the election of the EC of IITRAA. ***However, Secretary, IITRAA informed during the signing of the minutes that, as per the Rules of the Association the Chairman can recommend the dissolution but the General Body has the power to dissolve of the association.
3.	Proposed composition of the EC: (i) President (ii) Vice President – 1(India) + 1 (Abroad) (iii) Secretary (iv) Treasurer (v) Dean Alumni Affairs IITR or equivalent, (Ex-officio) [Nominated by the Director, IITR] (vi) Chairperson of all Local Chapters (one from each state even though there are multiple chapters in a state)	Agreed upon and recommended to continue with the existing composition of EC.

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4.	Any purchase upto Rs.50,000/- shall be with the approval of the President.	Agreed and recommended for incorporation in the new (proposed) rules and bye-laws of IITRAA.
5.	IITR Alumni Database (developed by the Association) should be managed and governed by IITRAA.	Recommended for developing and maintaining IITR Alumni database by IITRAA separate than that of developed by IITR and recommended for incorporation in the new (proposed) rules and bye-laws of IITRAA. However, the Institute will provide the data of the passed out students to IITRAA every year based on the choice of passing out student/alumni to share their data with anyone else.
6.	As per the existing rules of IITRAA, the rate of subscription shall be governed by the Bye-Laws of the Association. The membership fee from the passing out students will be collected by the Institute.	Recommended to remove the sentence "The membership fee from the passing out students will be collected by the Institute.
7.	Student Chapter shall be deleted from the rules and bye-laws.	Agreed and recommended to delete the student chapter.
8.	Cooling off period for members;	Recommended to continue with the same clause in the existing rules.
9.	Prof. Sandeep Singh suggested to remove the clause no.3.c of the Rules and Regulations of IITRAA on Suspension/Termination of Executive Committee Member.	Agreed and recommended for removing it from the new (proposed) rules and by-laws of IITRAA.
10.	Director, IIT Roorkee will no more be the patron. The Association may have Patron as approved the Chairman on the recommendation of Executive Committee, provided that a patron shall be an outstanding professional engineer/scientist or a social worker. Such appointment being for a period of one year.	The members came to the consensus that Director, IIT Roorkee shall be the Patron and the Chairman of the Executive Committee.


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