



DESIGN INNOVATION
CENTRE

नवोन्मेष

NEWSLETTER



IIT ROORKEE

December 2023 | Volume 1 | Issue 3



The Design Innovation Center at IIT Roorkee sincerely appreciates the invaluable cooperation of all stakeholders, which has resulted in significant achievements, including the submission of 9 Indian Patent disclosures for product development. Additionally, we have successfully trained 2,563 students and introduced two Master's Degree programs and a PhD program. The first batch of students has graduated with an impressive placement record, and we now have a total of 65 students. Moreover, we feel happy to share that admissions to B.Des. program are starting from the academic year 2024-25.

We would like to emphasize our unwavering commitment towards achieving excellence and making a positive impact on society in the days ahead. We are dedicated to working even harder in pursuit of our mission.

Prof. Inderdeep Singh, Coordinator, DIC, IIT Roorkee

DIC Supports



Technology



Innovation



Practical Training



Financial Support

>>> EVENTS



Project Monitoring & Assessment Committee Meeting

December 07, 2023

- Organized by DC Office, Ministry of MSME, GOI, New Delhi, for approval of the project proposals under MSME Innovative (Design) Scheme.
- Participants included DIC Coordinator, Project Officer and DIC PhD Fellows.

Empowering India: Nurturing Education, Innovation, and Cultural Legacy Exhibition

November 24, 2023

- Technology exhibition showing DIC products to celebrate 176 years of IIT Roorkee
- Exhibitors includes Project Officer, DIC PhD Fellows and helpers.



Follow Up Visit - CoT, GBPUA&T Pantnagar

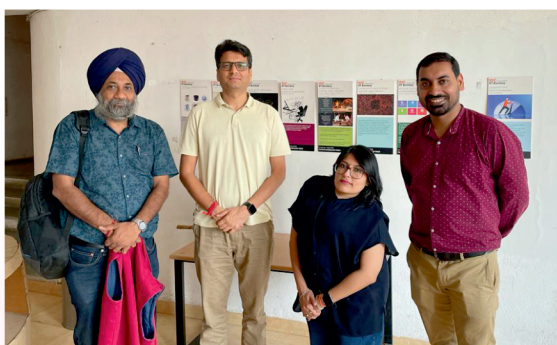
October 13, 2023

- Follow-up visit for review meeting of DIC Spoke, College of Technology, GBPUA&T Pantnagar
- Participants included Prof. Inderdeep Singh, (Coordinator), Prof. Rajat Agrawal (Co-coordinator), Mr. Vishal Sharma (Project Officer), DIC, IIT Roorkee, & Officials from DIC, College of Technology, GBPUA&T Pantnagar

Follow Up Visit - IIM Kashipur

October 14, 2023

- Follow-up visit for review meeting of DIC Spoke, IIM Kashipur
- Participants included Prof. Inderdeep Singh, (Coordinator), Prof. Rajat Agrawal (Co-coordinator), Mr. Vishal Sharma (Project Officer), DIC, IIT Roorkee, & Officials from DIC, IIM Kashipur



Exploratory Visit to IDC School of Design, IIT Bombay

December 13-14, 2023

- A team of professors - Prof. Inderdeep Singh (Coordinator, DIC), Prof. Sonal Atreya and Prof. Bibhuti Ranjan Bhattacharjya visited IIT Bombay in regard to starting B.Des. program in IIT Roorkee



Proposals are Invited Under the DIC Scheme
Project to Product (P2P)
2023-2024

Broad Area of Proposal Submission

- Design solutions for real-world problems
- Societal benefits
- Innovative product development and commercialization
- Societal innovations with focus on agri-tech

Instructions for Proposal Submission

Kindly submit a single file (.doc/.pdf) including:

- Brief description (300-400 words):
 - Need, Novelty, Outcome and Market Opportunity.
- Name, email, and mobile number of student(s).
- Details of the faculty mentor (must) with email and mobile number

Submit to:
E-mail with subject "P2P Scheme 2023-24"
Coordinator DIC (dic-iltr@iitr.ac.in)
Ph. - (01332) 28 4872

Last Date: March 31, 2023

Eligibility:
B.Tech/Dual Degree/M.Tech/PhD students

Ideas
↓
Innovation
↓
Outcomes:

- Development of a tangible product
- Explore to launch a 'Start-up'

Facilities Available:

- Limited financial support
- Protection of innovation through IPR

Patents and Innovations under P2P Scheme

- Hydro Dissection Device (Application No: 20191104336)
- GA-ECD Machine (Application No: 202011019656)
- A Kit for Detection Chikungunya (Application No: 20191102044)
- Modular Wheelchair (Application No: 202011019656)

Project to Product (P2P) Evaluation Meeting

October 05, 2023

- Total Proposals Received = 10
- Call for revised proposals with modifications as suggested by the P2P evaluation committee

PATENTS GRANTED

- "A Modular Accessory for The Mobility Enhancement of Manual Wheel Chairs by Motorizing the Manual Wheelchair"
- Patentees: Prof. Akshay Divedi, Mr. Vaibhav Agarwal, Mr. Aditya Peshin.
- Patent No.: 459625
- Application No.: 202011019656
- Date of Grant: 17/10/2023



- "A Four-Way Directional Control Valve (DCV)"
- Patentees: Prof. Apurbba Kumar Sharma, Mr. M. Shah Faizan, Dr. Radha Raman Mishra, Prof. T. R. Chelliah
- Patent No.: 459108
- Application No.: 202011009048
- Date of Grant: 16/10/2023



- "An Adaptive Feedback Controlled Electric HydroDissection Device"
- Patentees: Prof. Akshay Divedi, Dr. Rajendra Kumar Arya.
- Patent No.: 468378
- Application No.: 201911044036
- Date of Grant: 10/11/2023



- "A Cylindrical Extension Device"
- Patentees: Mr. Rachit Birla
- Patent No.: 485338
- Application No.: 202111026786
- Date of Grant: 19/12/2023



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D.I.C. Ph.D. Fellows



Tejas Pramod Naik
(2018 - Till date)

Research Area

Microwave processing of sustainable natural fiber reinforced thermoplastic composites



Aranya Gupta
(2019 - Till date)

Research Area

Design, Analysis and implementation of Physical Unclonable Functions



Arun Sharma
(June 2023 - Till date)

Research Area

Additive Manufacturing, Hybrid Manufacturing, Product Design



Arjun Kapoor
(June 2023 - Till date)

Research Area

Product Design, Ergonomics, Technology for Resource Constrained Society

उद्योग



DIC

DESIGN INNOVATION CENTER

Indian Institute of Technology Roorkee



Innovate
incubate
ignite
Be an Innovator

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Newsletter Team

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Mr. Vishal Sharma

Project Officer (Liaison and Accounts)

Mr. Rachit Birla

Project Officer (Technical & Outreach)

Mr. Arya Yudhveer Singh

Project Officer (Design/Technical)

DIC PhD Fellows

Mr. Tejas Naik

Mr. Aranya Gupta

Mr. Arun Sharma

Mr. Arjun Kapoor