

Workshop on Industry-Academia Meet Insights about Innovation Success Stories



Two-Day workshop on Industry-Academia Meet Insights about Innovation Success Stories

Organized by Design Innovation Center in association with Department of Design
Indian Institute of Technology Roorkee
(April 22-23, 2023)



A two-day Industry Academia Meet was organised by Design Innovation Center in association with Department of Design on "Insight on Innovation: Success Stories" on **April 22-23, 2023**. The event aimed to bring together experts from industries from various domains to share their experience related to innovation. The objective of the workshop was to bridge the gap between academia and industry and explore how students could assist in the development of innovative products. The inauguration session was graced by the presence of the Chief Guest, Dean of Academic Affairs Prof. Apurbba Kumar Sharma, and the Guest of Honor, Mr. Rajat Bhalotia, Managing Director, Wonder Products. The workshop began with the visitors being introduced to the ongoing frontier research activities at various Centers of Excellence in the campus. The speakers shared their experiences in building and inculcating an innovative ecosystem in product and process innovation. The keynote speaker, Prof. Rajat Agrawal, Associate Dean of Innovation and Incubation, spoke about the importance of innovation management and the introduction of ISO:56000. The other speakers included Mr. Sunil Ranganathan, experienced AI/ML product leader from Tredence; Mr. Harshit Sinha, Senior Production Manager; Mr. Bablu Dey, Lead Technologist from ITC; Mr. Nikhil Maheshwari, Vice President, R&D Division, Hindware Home Innovation Limited; Ms. Darshan Gandhi, Head of Design, Godrej Group; Mr. Shashi Kant, Associate Director (North and East), Flipkart; Mr. Sumitra Pandey, Vice President (R&D), Wonder Products; Prof. Vinay Sharma, Prof. Gaurav Raheja, and Prof. Bibhuti Ranjan Bhattacharjya from IIT Roorkee. Prof. Manish Kumar Asthana, Joint Faculty at the Department of Design, hosted the panel discussion with the esteemed panellists where 75 students attended and some interacted with the speakers and were enlightened with the importance of ethics in innovation and guided with the industry norms and policies one must follow at every stage of innovation.

MISCELLANEOUS

Ministry of Education Review Meeting Glimpse



NEWSLETTER TEAM

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DIC Ph.D Fellows: Mr. Tejas Naik, Mr. Aranya Gupta, Mr. Arun Sharma & Mr. Arjun Kapoor.

FUTURE EVENTS

- Winter Internship Program 2023
- Research to Product (R2P)
- Project to Product (P2P)
- Workshops for UG students
- Faculty Development Programme
- DIA Program for school students
- DIC U2U Program



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DESIGN INNOVATION CENTER

नवोन्मेष NEWSLETTER



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MESSAGE



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 09 Indian Patent disclosures for product development. Additionally, we have successfully trained 2455 students and introduced two Master's Degree programs and a Ph.D. program. The first batch of students has graduated with an impressive placement record, and we now have a total of 65 students. 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

INTERNSHIP



Summer Internship 2023

DIC has offered 13 students a Summer Internship 2023 for one/two months.

Applications from following Institutes: NIT Hamipur, NIT Silchar, MANIT Bhopal, MIT Manipal, DTU Delhi, NIFT Gandhi Nagar etc.

Some project titles:

- Garbage Collector Stick.
- Smart Baby Cradle: Saving Lives of Abandoned Babies.
- Additive Manufacturing in PLA.
- Fabrication and Characterization of Fiber Reinforced Composites.
- Parametric Design of An Urban Neighbourhood-Salt Lake.
- Wayfinding of Heritage Precincts: Jodhpur and Jaipur.

PRODUCTS



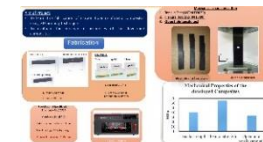
Garbage Collector Stick



Smart Baby Cradle: Saving Lives of Abandoned Babies



Additive Manufacturing in PLA



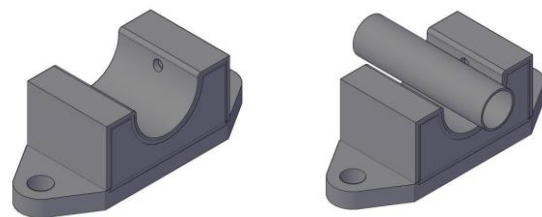
Fabrication and Characterization of Fiber Reinforced Composites

Workshop on Emerging Design, Innovation and Technology (EDIT) Workshop: Medical Device Design

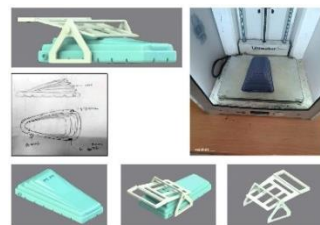


The workshop aims to facilitate design of biomedical devices for Indian market, inspired by the current government initiative, Make in India. The objective of this workshop is to familiarize students with present research gaps in medical device design and their practical importance and ideate a competent solution. The opening ceremony of the EDIT 2023 workshop on Medical Device Design was held on May 15, 2023, at Khosla International House, IIT Roorkee with the 30 Participants. The event began with a warm welcome to the guests and participants, followed by a felicitation ceremony for Prof. K. K. Pant, Prof. Inderdeep Singh, and Prof. Charles W. Peak. The coordinators provided an introduction, while Prof. Charles W. Peak, the international delegate, delivered an insightful address. Prof. Inderdeep Singh and Prof. K. K. Pant also spoke, emphasizing the importance of innovation. The ceremony concluded with a vote of thanks and fostering networking opportunity. The duration of workshop was **May 12-23, 2023**. During the workshop, participants engaged in a collaborative learning environment where they actively shared knowledge and experiences. Through hands-on activities, group discussions, and expert facilitation, participants gained valuable insights and practical skills relevant to the workshop's theme.

Outcome of the Workshop



Blood Leakage Detector in Hemodialysis



Redesign of Manual Resuscitator (Precise Air Pumping for Controlled Resuscitation)

Project to Product (P2P)



Project to Product (P2P) scheme of Design Innovation Center is to encourage students for product development, the students working on idea/project may convert it into tangible product through this scheme and project may be considered for limited financial support. also, novel products will be supported for registering as an IPR. DIC invited proposals for P2P call 2023 & a total 10 numbers of proposals were received.

Research to Product (R2P)



Development of Flammability Tester for Commercial Hand Sanitisers

Research to Product (R2P) scheme provided financial/Technical support to Faculty and/or Research Scholar(S) (Optional) for innovative Product Development.

The following Product developed under R2P by Prof. K.B Mishra and Saumitra Mishra, PhD Scholar, MIED and it was submitted on April 10, 2023 to DIC IIT Roorkee.

Exhibition

National Technology Day: IITR Technology and Startup



Design Innovation Center was participated in the exhibition which was organized by IIT Roorkee on the occasion of National Technology Day followed by several events on **11th May 2023** at MAC Auditorium. The event was grace by the Hon'ble Lieutenant General Shri Gurmit Singh (Governor of Uttarakhand) and other dignitaries. DIC showcased the DIC products, student projects and faculty Projects etc. that is developed under the different schemes of the Design Innovation Center and Department of Design.

One - Day Workshop on Innovative Design: Ideation to realization

The workshop objective is to provide the motivation towards the Ideation, Innovation and Design to the college students located nearby area of Roorkee and Hands-on Practical session on machines; 3D printer, Coordinate Measuring Machine (CMM), 3D scanner etc.

No. of Participants: 35

Course: B.Tech.

Participating Institute: 01

College: Roorkee College of Engineering

Date: May 25, 2023

Topic covered:

Identifying Opportunities in Product Design, Introduction to UI/UX, CMM, 3D Printer etc.

