



Indian Institute of
Science, Bengaluru



Department of
Design & Manufacturing

M.Des.

Batch 24-26

MEET DESIGNERS OF TOMORROW

Placement
Brochure





**Department of
Design and
Manufacturing**

#1

Overall Category
University Category
Best Research Institute in India

WHO WE ARE?

About Department of Design and Manufacturing

Immersed in the world-renowned **IISc, DM** stands out as one of the few schools in India nurturing talent to create **systemically complex, technologically intensive, and socially impactful solutions.**

Functionality, aesthetics, usability, and sustainability are at the core of everything we do.

Message from the **Chairman**

Imagine crafting products that seamlessly blend technology and human need. Products that are not just functional and beautiful, but are also sustainable and impactful. That's the legacy of our M.Des Programme in Product Design and Engineering, launched in 1997. Since then, we've nurtured generations of design pioneers, empowered by our DEPARTMENT OF DESIGN & MANUFACTURING - DM (erstwhile CPDM - Center for Product Design & Manufacturing).

Our dedicated faculty, pioneers in their fields, guide our students through their journey of exploration and innovation. From creativity and ergonomics to sustainability and human-machine interaction, their learning spans diverse domains. Master cutting-edge tools and methods, backed by state-of-the-art facilities like our Smart Factory. They are equipped to tackle the technological challenges of tomorrow, shaping products that resonate with users and the environment.

We aren't just offering graduates; we're offering future leaders. Join us at DM, and watch your company soar to new heights of design and manufacturing excellence. This is more than just a placement brochure; it's an invitation to invest in the future.



Amaresh Chakrabarti

Chair, Department of Design and
Manufacturing (Erstwhile CPDM)

Our Faculty



Dibakar Sen
Professor

Geometric & Topological Modeling, Digital Human Modeling & Posturing, Geometric & Functional Vision Modeling, Natural Behaviour & Grasp Modeling, Kinematic Assembly Modeling, Deployable Antenna Mechanisms, Underactuated & Spring Actuated Mechanisms...



Manish Arora
Associate Professor

Biomedical Devices, Co-Design, Collaboration and Open-Source in Design



B. Gurumoorthy
Associate Professor

CAD, Product Informatics, Computational Metrology, Computer Aided Prototyping



N.D. Shivakumar
Associate Professor

Polymer based composites, Bio-Composites, Synthesis/Manufacturing of lightweight materials



Abhra Roy Chowdhury
Associate Professor

Robotics & Automation, Collaborative Mobile Robots (Aerial/Terrestrial/Marine), Human-Robot Collaboration, Mechatronics, Bioinspiration & Biomimetics



Vishal Singh
Associate Professor

Built Environment (BE) and construction management, Design and design management, Innovation and innovation management



Abhijit Biswas
Associate Professor

Core Engineering Area (Electronics and Instrumentation), Interdisciplinary Engineering Area, Basic Science Area (Physiology and Psychology)



Pradipta Biswas
Associate Professor

Human-Computer Interaction, User Modelling, Multimodal Interaction, Intelligent Interaction



Anindya Deb
Associate Professor

Vehicle Crashworthiness and Occupant Safety, Pedestrian Safety, Impact Modeling and Testing, Behavior of Lightweight Materials under Impact Loading, Design of Automotive Systems.



Rina Maiti
Associate Professor

Human Factors Engineering, Biomechanics, Product Design, Medical Engineering, Rehabilitation engineering.



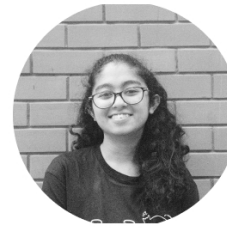
Meet Us



Ajith Sree Madhav
B.Tech in Metallurgy



Jeevan SJ



Rai Chakrabarti



Ishita Agarwal



Maitreya Keni



Gayathri E



Mudit Chand Narayan



Madhura Mahagaonkar



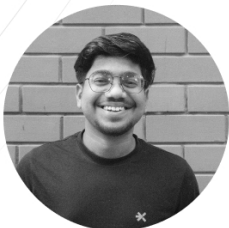
S Shreedarshni



Mansi S Bhagure



Shreya Hamine



Dhruv Raj Choudhary



Dipin Dileep



Joe Thomas



Bharadwaj VS



Aditya Ramesh



Ashutosh Saini



Aditya Bajaj



Abhijeet Kumar



Anusri P

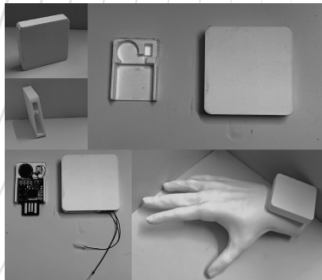


Sumanth N



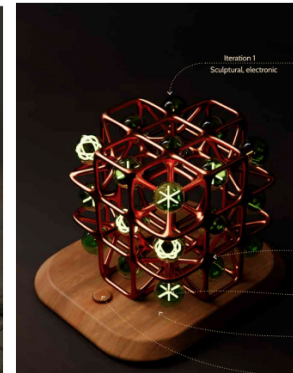
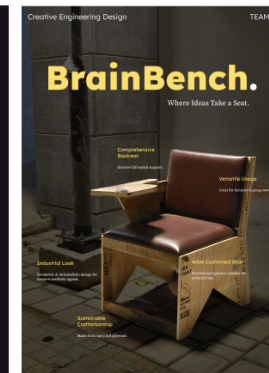
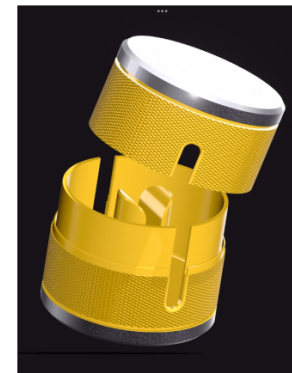
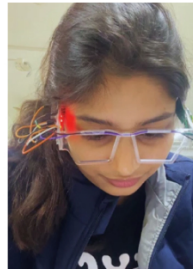
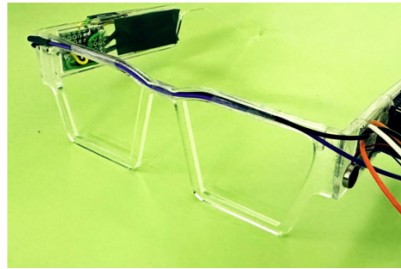
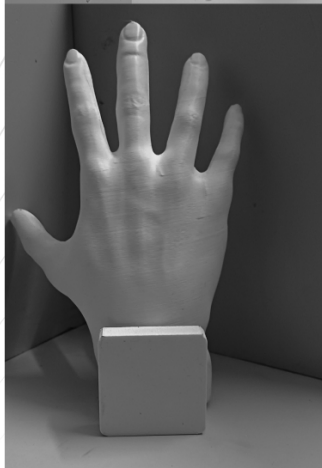
Deepshikha

Our Work

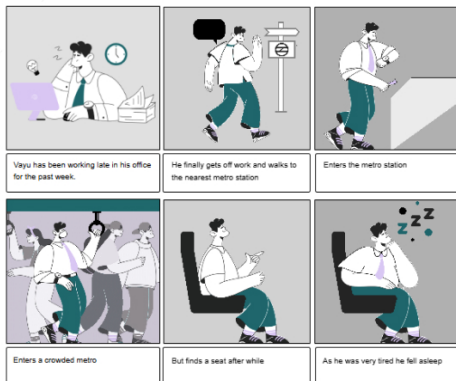
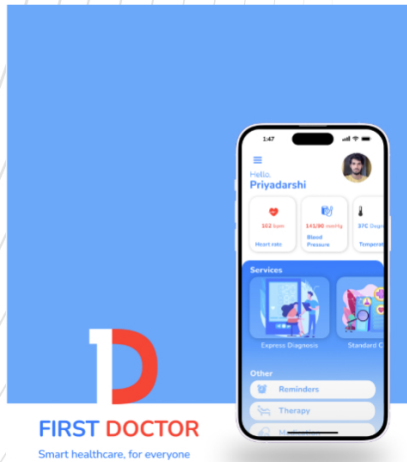


DM students have actively worked on various projects in diverse design fields, both on individual and group levels.

The projects have varied from the redesign of products to the innovation of new ones. The highlights of our projects are extensive user research and high concept to patent conversion.

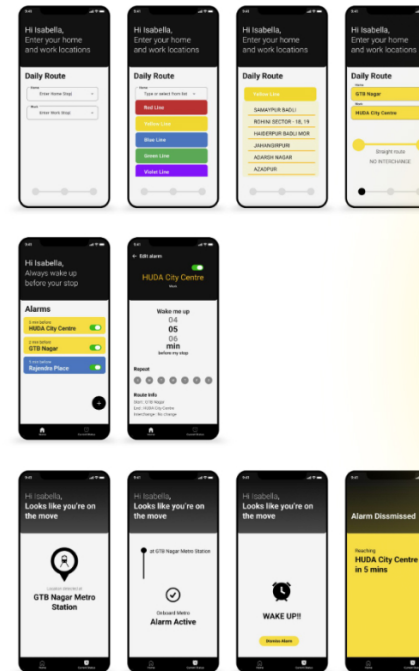
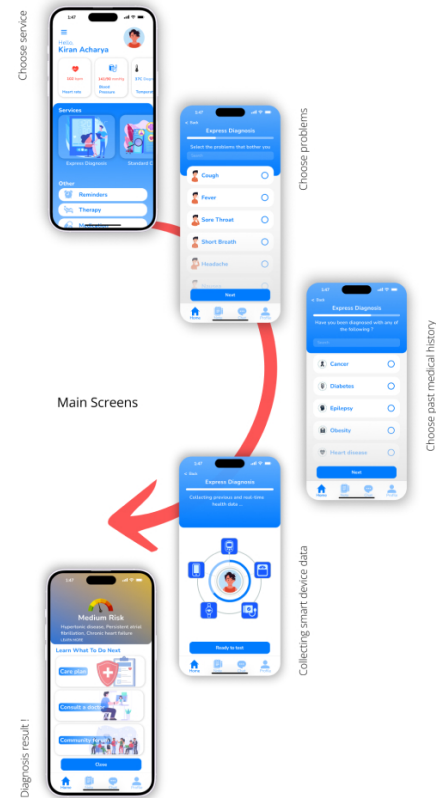


Our Work



Our program equips graduates to deliver impactful digital experiences, from the initial spark of an idea to its polished execution.

We go beyond aesthetics, emphasizing a rigorous design process rooted in extensive user research and testing.

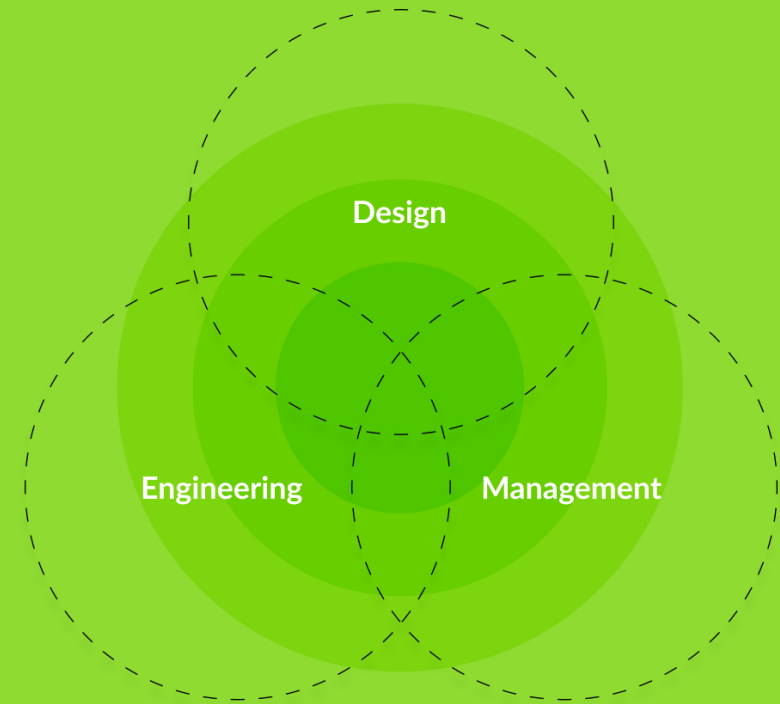


Our Curriculum

EMPOWERING INNOVATION

M.Des in Product Design, Development & Management

Unlike no other design program in the country, it is one that focuses on the **fuzzy front-end of product development** that emerges at the intersection of Design, Business and Technology. for the creation of well designed, well engineered and well positioned products that the market requires.



Design

- Creative Engineering Design
- Elements of Design
- Product Visualization, Communication and Presentation
- Applied Ergonomics
- Embodiment Design
- Materials, Manufacturing & Design

Engineering

- Basics of Electronics for Product Design
- Computing, AI and Data Science for Product Design
- Mechatronics
- Elements of Solids and Fluids Mechanics

Management

- New Product Development- Strategy and Practice
- New Product Development- Concepts and Tools
- Product Design

Skills & Tools

Product Planning	Concept Development	System Level Design	Detailed Design	Testing and Refinement	Production Ramp-up
<ul style="list-style-type: none"> ▪ Opportunity Identification ▪ User Research ▪ Empathy Mapping ▪ Habitat Study ▪ Market Study ▪ Product Study ▪ Competition Study ▪ Storytelling ▪ Trend Analysis ▪ Semiotics Study ▪ Task Clarification 	<ul style="list-style-type: none"> ▪ Needs Analysis ▪ Requirement Definition ▪ Innovation Situation Questionnaire (ISQ) ▪ Function structures ▪ QFD (Quality Function deployment) ▪ Creative Problem Solving ▪ concepts evaluation ▪ Sketching ▪ 3D modelling ▪ Prototyping ▪ Life Cycle Assessment ▪ TRIZ 	<ul style="list-style-type: none"> ▪ User Flow Development ▪ DFX ▪ Product Architecture ▪ Information Architecture ▪ Collaboration ▪ Communication ▪ HCI/HMI 	<ul style="list-style-type: none"> ▪ Principles of Embodiment Design ▪ Interface Design ▪ Simulation ▪ Definitive Layout 	<ul style="list-style-type: none"> ▪ Usability Testing ▪ DFMEA 	<ul style="list-style-type: none"> ▪ Financial Projections ▪ Value proposition



Facilities

IDEAS Lab

Innovation design study & sustainability

UTSAAH Lab

Universal technology solutions for accessible & affordable healthcare

CAR Lab

Creative automotive research

HER Lab

Human engineering

SCALE Lab

Computerized anthropometry & ergonomics simulation

I4I Lab

Impact4Impact Lab

RIMM Lab

Research in Materials and Manufacturing



Su-Desi Lab

Sustainability by design

PLM Lab

Product lifecycle management

VR Lab

Virtual Reality

I3D Lab

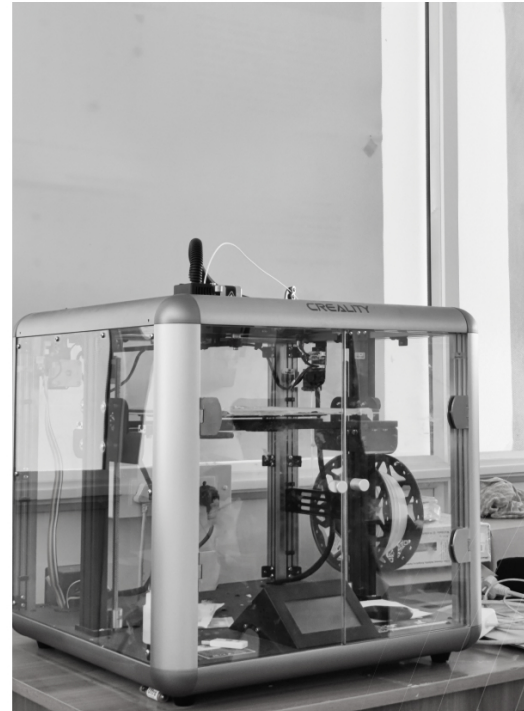
Intelligent Inclusive Interactive design

RI Lab

Robotics innovation

InSPIRE Lab

Innovation synthesis and prototyping for interdisciplinary research and engineering



Event & Awards

Events

RIPPLES

The Annual Design show of Department for Industry interaction



Silver Jubilee

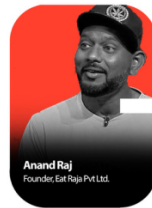
Celebrations 25 years of DM(CPDM)

ICoRD'25

10th International Conference on Research into Design

I-4AM'24

3rd International Conference on Industry 4.0 and Advanced Manufacturing



Awards

RedDot Award

- Apoorv Shankar & Yogansh Namdeo, alumni of CPDM IISc, are winners of the Red Dot Design Award: Product Design 2023 for "Ultrahuman Ring"
- Anup Chander & Govind Sharma (CPDM MDes, alumni) were winners of the prestigious red dot award for their novel design of 'diverter' flip-flop



The James Dyson Award

- LifeBox was declared the national winner of the James Dyson Design Award 2021
- EpiSHOT—a unique reusable epinephrine autoinjector for patients suffering from severe allergic reactions

Lexus Design Award

- CleanRAT— Robotic Sweage Cleaner: IISc team comprising Prof Monto Mani (Students: Yogansh Namdeo and Ujjal Halifa), won the Lexus Design Award 2019
- LifeBox, an active heart preservation container for extending the out-of-body viable time during transport for transplant, which was the National winner of the James Dyson Design Award 2021



Some Notable Alumni



Shaurya Rawat

Founder, UX Designer
The Geek's Lab, Delhi



Shamit Shrivastav

Associate Professor of Practice -
Design - FLAME University



Pulin M Raje

Associate Design Director
McKinsey & Company, New Delhi



Ami Sampat

Lead of Design, Alexa
Amazon India



Amit Singh

Senior Design Manager
Microsoft, Hyderabad



Anas K. A.

Head of Design at designLAB
TCS Interactive, Kochi



Shanavas M.S.

Creative Director at TEQZO
Founder of Gemklip, Bangalore



Shilpa Marathe

Design Lead, Watson IoT
Industry Lab, IBM, Munich



Arunkumar Francis

Sr. Motorcycle Design Lead
Bajaj Auto, Pune



Debrup Sanyal

Lead Designer, Design
Mahindra & Mahindra, Mumbai



Dhruv Saxena

Co-Founder & Designer
Obvious, Bangalore



Guruprasad Rao

Director & Mentor
Imaginarium, Mumbai



Jaspreet Singh

Lead Designer
Tata Motors, Pune



Vinay Reddy

CoFounder, Product Designer
Sickle Innovations, Ahmedabad



Suman Devadula

Head, School of Design, MIT
World Peace University, Pune



Apoorv Shankar

VP, Hardware at
Ultrahuman, Bangalore



Srinidhi A.V.

AGM- Design
VIP Industries, Mumbai



Mona Sharma

Head of Product Design, Bempu
Health, TIMES top 25 inventions



Unmesh Patki

Senior User Experience
Architect, Infosys, USA



Yogendra Solanki

Associate Design Director
IBM IX, Gurgaon



Nitin Gupta

Founder, Product Designer
Sickle Innovations, Ahmedabad



Prasanna Gadkari

Experience Design Professional
Amazon, Canada



Priyanka Pundhir

UX Researcher Lead, Google
Pay, Google, Singapore



Rachna Tiwary

Sr. User Researcher
PayPal, Sunnyvale

Alumni Footprint



Contact Us

Faculty Coordinators



Abhijith Biswas

Assistant Professor, DM
✉ abiswas@iisc.ac.in



Vishal Singh

Associate Professor, DM
✉ singhv@iisc.ac.in

Student Coordinators



Ishita Agarwal
M.Des, DM

+91 98398946325
✉ ishita@iisc.ac.in



Aditya Bajaj
M.Des, DM

+91 8604047012
✉ adityabajaj@iisc.ac.in



Bharadwaj VS
M.Des, DM

+91 8277275740
✉ bharadwajvs@iisc.ac.in