

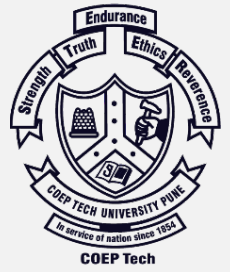
COEP Technological University

(COEP Tech)

A Unitary Public University of Government of Maharashtra

w.e.f. 21st June 2022

(Formerly College Of Engineering Pune)



ONE YEAR FULL TIME POST GRADUATE DIPLOMA IN INTEGRATED PRODUCT DESIGN AND DEVELOPMENT (PGDIPDD)

Hybrid Mode
(Online-Offline)

Contact details:

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About COEP

The COEP technological university formerly known as College of Engineering Pune (COEP) was established in 1854. It is one of the oldest and premier engineering institutions in the country. It has rich history and dedication to the pursuit of excellence and offers a unique learning experience across a spectrum of academic and social experiences. With a firm footing in truth and humanity, the institute provides its students with the understanding of both technical developments and the ethics that go with it. In 2022 COEP became a Unitary Public University of Govt. of Maharashtra.

Department of Manufacturing Engineering and Industrial Management is catering to the needs of all the disciplines. Owing to the manufacturing challenges and competition in industries, Flexible Manufacturing & Automation is slowly and steadily replacing the conventional manufacturing processes to increase productivity. The infrastructure is available in the form of CAD / CAM Laboratory, precision measuring-based Metrology Laboratory and Robotics Laboratory, Rapid Prototyping Lab and FAB Lab.

About the course

“From Ideas to product, through seamless technology”

The one year full time Post Graduate Diploma Programme in “Integrated Product Design and Development” (**Hybrid Mode**) aims at developing skills, knowledge, and aptitude among the students to bring about innovation in industry through creative problem solving.

This program will lay equal emphasis on engineering design aspects with the objective to produce post graduate designers with greater analytical ability and synthesizing skills.

The program aims to nurture the ideas and innovations (knowledge-based and technology-driven) into successful startups/ventures.

The program aims at working in line with the national priorities and goals and its focus would be to build an innovation driven entrepreneurial ecosystem with an objective of socioeconomic development through wealth and job.

Objectives of the course

- ✓ To understand the cycle of product design and development
- ✓ To get motivated for technological innovation in multiple domain
- ✓ To learn research-based approach for product development
- ✓ To empower product-based entrepreneurship skills

Course Structure

Sr. No.	Name of the Course	L	T	P	Credits
SEMESTER I (16 Weeks)					
01	Introduction to Design and Innovation	3	-	-	3
02	Product Communication and Interface Design	3	-	-	3
03	Collaborative Design Methods for New Product Development	3	1	-	4
04	Selection of Materials and Manufacturing processes	3	-	-	3
05	Introduction to Electronics / Mechanical (bridge course)	3	-	-	3
06	Computer Aided Product Detailing (rendering/ Design Studio) lab	-	-	2	1
07	Product Design Prototyping and Advanced Manufacturing Lab	-	-	4	2
TOTAL		15	1	6	19
SEMESTER II (16 Weeks)					
01	Design for Usability and Sustainability	3	-	-	3
02	Design Management and Professional Practice	3	-	-	3
03	Design for manufacturing, Assembly and Maintenance (DFMAM)	3	1	-	4
04	Elective-I	3	-	-	3
05	Form and Aesthetics Lab	-	-	4	2
06	Product electronics and instrumentation lab	-	-	4	2
07	Mini Project-II	-	-	4	2
TOTAL		12	1	12	19
Elective-I *					
01.	Vehicle and Transportation Design				
02.	Agricultural and Farm Product Design				
03.	Biomedical Device Development				
SEMESTER III (16 Weeks)					
01	Industry internship/Complete product design case study	-	-	-	8
02	MOOCS course on Domain area	-	-	-	4
TOTAL					12





Plastic Studio

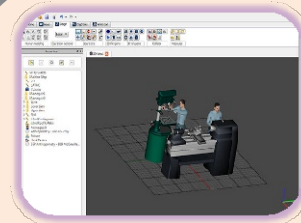


Pratham 3D Printer

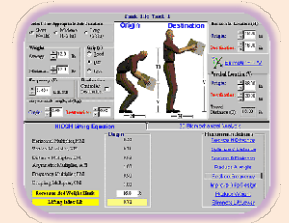


Rasin 3D Printer

Ergonomic Studio



Human CAD



ErgoIntelligence



ErgoMaster



Instruments

FACILITIES

Design Studio



XP Pen



Mac Station



Media Lab

Advanced Manufacturing Facility



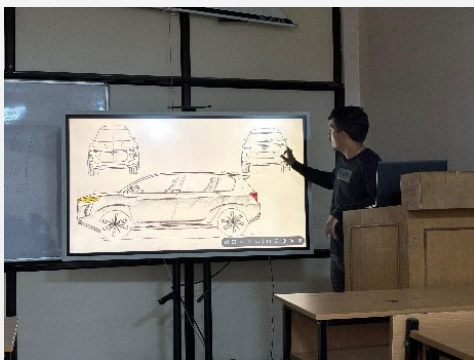
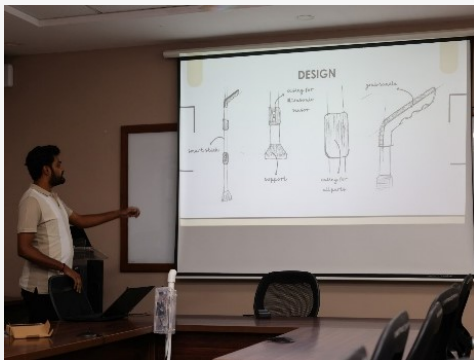
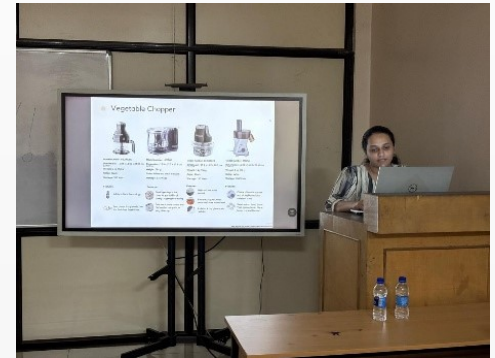
4 Axis CNC Machine



Hybrid Micro EDM Machine

Designed to bridge the gap between innovation and practical application, the PGIPDD program empowers students to bring their ideas to life. It covers the full "ideation-to-manufacturing" spectrum, equipping you with hands-on experience in **problem identification, concept design, prototyping, testing, and fabrication.** Join us to cultivate **creativity, collaboration, and technical prowess** in various product design domains.

Learning in Action: Project Demonstrations



Software Facilities



TESTIMONIALS



“The Integrated Product Design and Development course was a great learning experience. It helped me understand real-world product creation, from idea to prototype. I gained practical skills in design thinking, CAD, and teamwork. Really thankful for this valuable course!”

- **Priyanka Bodade** (*Fresher student 2024-25*)

“The PGDIPDD course at COEP was insightful and well-structured. It provided a good balance of theory & practical exposure, helping to strengthen design thinking and user-centric innovation. The sessions were engaging, & the faculty brought strong industry-relevant insights.”

- **Shraddha Kakade** – [*Founder, Kakade Design & Prototyping (Student 2024-25)*]



“The PGDIPDD course at COEP blends design thinking with real-world product development. Its industry-oriented curriculum sharpened my technical and creative skills. Hands-on projects and expert faculty made learning truly impactful. A perfect launchpad for anyone aiming to excel in product design and innovation” - **Viraj Deshpande** (*Working professional student 2024-25*)

“The blend of hands-on labs, detailed theoretical courses, and independent project work was particularly effective in fostering a holistic learning experience. Overall, course was well-structured and highly relevant to developing a well-rounded designer and engineer.

-**Akshay Ghule** (*Working professional student 2024-25*)



“The program offers a perfect blend of technical depth and practical exposure through live sessions, design labs, and industry projects. It has significantly enhanced my understanding of product design and development processes.”

- **Shubham Kadam** (*Working professional student 2024-25*)

Eligibility

- Minimum Qualifications: B.E./B.Tech in Mechanical/ Production/ Automobile/ Aeronautical/ Agricultural/ Marine Engineering, or B.E./B.Tech in Electrical/ Electronics/ Instrumentation/ Computer Engineering and its allied branches, or B.Des.
- Applications are invited from freshers, experienced professionals, and individuals currently in their final year of degree examinations. The application fee ₹1200/- is to be paid online through SBI Collect
- Application link - <https://forms.gle/WuhesNzppwcqFv657>
- Course fee ₹ 1,50,000/- is to be paid online at the time of admission.
- Candidate shall be admitted as per selection process mentioned on the website.
- Total number of seats available are 20.