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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COEP Technological University, Shivajinagar, Pune-411005

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About COEP

COEP Technological University, formerly College of Engineering Pune (est. 1854), is one of India's oldest and premier engineering institutions. In 2022, it became a Unitary Public University under the Govt. of Maharashtra. Known for academic excellence and ethical grounding, it offers a rich blend of technical education and values.

The Department of Manufacturing Engineering and Industrial Management supports all disciplines, focusing on modern manufacturing trends like Flexible Manufacturing and Automation. It houses state-of-the-art facilities including CAD/CAM, Metrology, Robotics, Rapid Prototyping, and FAB Labs.

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

Important Dates

Sr. No.	Activity	Timeline
1	Registration And Submission Of Online Application(s)	8th August 2025
2	Entrance Test / Interview	On 12th and 13th August 2025
3	Declaration of Provisional Merit List	18th August 2025
4	Start date of Fee Payment	19th August 2025
5	Last date of fee payment and cancellation of admission	29th August 2025
6	Commencement of Classes of all PGD Programs	1st September 2025

Course Structure

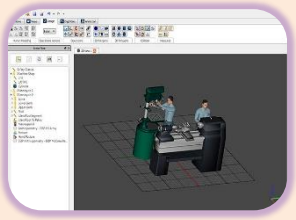
Sr. No.	Name of the Course	L	T	P	Credits
SEMESTER I (16 Weeks)					
01	Introduction to Design and Innovation	3	-	-	3
02	Product Communication and Interface Design	3	-	-	3
03	Collaborative Design Methods for New Product Development	3	1	-	4
04	Selection of Materials and Manufacturing processes	3	-	-	3
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

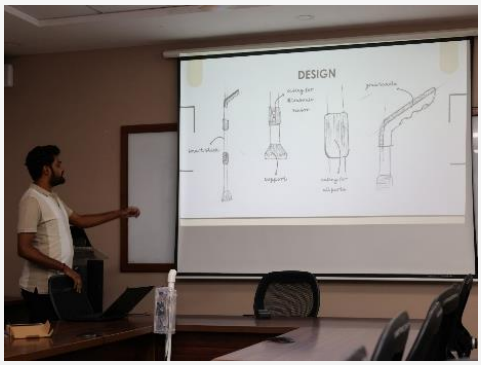
4 Axis CNC Machine

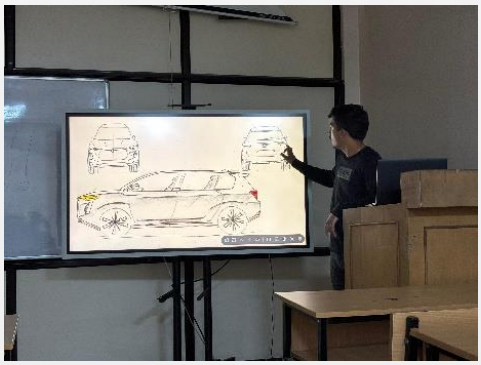
Hybrid Micro EDM Machine

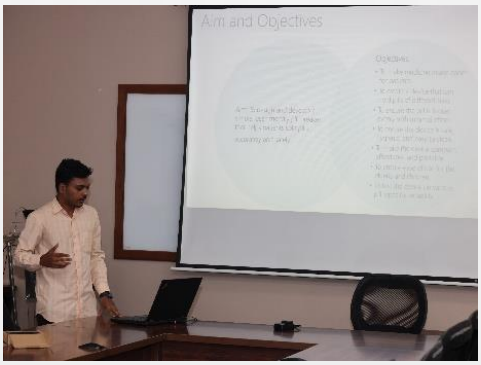
STUDENTS ACTIVITIES

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

F 360 · M AYA · I PRO · AUTODESK® NETFABB® · simufact Simulating Manufacturing

HumanCAD® · ErgoMaster® · ErgoIntelligence™

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 trough SBI Collect
- Application link - https://forms.gle/SkpMjadToeKeTdqB6
- 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.