



COEP Technological University

(COEP Tech)

A Unitary Public University of Government of Maharashtra

w.e.f 21st June 2022

(Formerly College of Engineering Pune)

Department of Manufacturing Engineering & Industrial Management

Offers

**One Year Post Graduate Diploma In Integrated Product Design & Development
(PGDIPDD) (Hybrid Mode)**

Course Objectives

- **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**

About COEP Tech.

College of Engineering, Pune (CoEP), chartered in 1854 is a nationally respected leader in technical education. The institute is distinguished by its commitment to finding solutions to the great predicaments of the day through advanced technology. The institute has a rich history and dedication to the pursuit of excellence.

COEP Tech offers a unique learning experience across a spectrum of academic and social experiences. With a firm footing in truth and humanity, the institute gives you an understanding of both technical developments and the ethics that go with it. The curriculum is designed to enhance your academic experience through opportunities like internships, study abroad programmes and research facilities.

The hallmark of COEP Tech education is its strong and widespread alumni network, support of the industry and the camaraderie that the institute shares with several foreign universities. The institute is consistently ranked amongst the top 20 technical colleges in India and its alumni have contributed a lion's share in development of national infrastructure.

Department of Manufacturing Engineering & Industrial Management

Established in the year 1994, the Manufacturing Engineering Department of COEP with its team of dedicated, qualified and experienced faculty, offers a sound program at both UG and PG levels. The UG program is B.Tech.(manufacturing Science and Engineering). Department runs four PG programs M.Tech Production Engineering (Manufacturing Engg. & Automation), M.Tech Mechatronics, M.Tech Project Management and M. Tech (AI and Robotics). Department also runs three post graduate diploma courses namely PGD-ERP, PGD-Additive Manufacturing, and PGD-Product Design. The department aims at providing a valuable resource not only to the industries but also the society through excellence in technical education and research. An outreach project of MIT's centre for Bits and Atoms (CBA), COEP's Fab Lab provides a significant fillip to technological empowerment; peer to peer project based technical training and high-tech business incubation. The centralized Robotics and Automation Laboratory of COEP is a notable feature of the department. To keep abreast of the technological trends the departmental faculty undergoes a number of programs and refresher courses and participates actively in seminars and conferences. With rich hardware and software resources and collaborative projects with the academia and industries, the department aims at providing an elite workforce of future leaders in myriad areas like manufacturing, designing, quality management and marketing. Department is having state of the art facility as Rapid Prototyping Lab as well as Tribology & Terotechnology Lab. Department runs many continuing education programmes like CAD/CAM, Mechatronics etc.. Department also takes up consultancy work in the area of Reliability Engineering, Industrial Engineering, Optimization, Ergonomics, Rapid Prototyping, Tribology & Terotechnology etc.

About PGDIPDD

“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 start-ups/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.**

■ **Faculty**

In-house as well as renowned and experienced faculty from the industries, R&D organizations and other reputed institutes will be involved in teaching-learning process of the entire program.

Structure

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	1
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 Basics of AI	-	-	-	4
TOTAL					12

About PGDIPDD

Eligibility Criteria

- BE/ BTECH/ ME/MTECH in M Group (Mechanical/Production/ Automobile/ Aeronautical/ Agricultural Engineering/ Marine Engineering) and E Group (Electronics/Electrical/ Instrumentation/Computer Engineering) can apply.
- Fresher's and Candidates with prior work experience both can apply.
- Those appearing for their final year degree examination may also apply. On selection, such candidates will have to fill a Notarized undertaking on Rs. 100/- Non-Judicial stamp paper and submit it to PGDIPDD Admissions Team at the time of payment of Program Fees.

Selection Criteria for Admission

Selection through Interview 1/2.

Total Number of Seats:

Total Number of seats for the program is 20

Course Fees:

Rs. 1,50,000/- (Rupees One Lakh Fifty Thousand only) for full course

Course Commencement Date:

Admission Dates

Proposed dates for admissions process of PGDIPDD 2024-25.

Activity	Date
Online Form Uploaded On	8th July, 2024
Last Date to apply Online	31st July, 2024
Offline Written Test /Technical Interview	2nd – 5th August, 2024
Provisional Merit List	5th August, 2024
Last date to pay Program fee	12th August, 2024
Program Commencement	16th August 2024

For more details click on : [PG Diploma – COEP Technological University \(COEP Tech\)](#)

Program Features & Facilities

- ✓ **Online and offline Live SESSION:** Instructor led LIVE in-depth sessions from Dept./ industry experts
- ✓ **Communications:** Two-way communication via text & speech
- ✓ **Industry Internships/ Projects:** Multiple domains specific projects related to product design
- ✓ **Product design Labs:** Hands-on usage of State of Art Fab/ 3D Printing labs

Address for the Communication

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A photograph of two hikers on a rocky mountain peak. One hiker, wearing a yellow jacket and a white helmet, is leaning forward to help another hiker, who is wearing a red jacket and a red beanie, up a rock. The hiker in red is sitting on the ground, and the hiker in yellow is standing on a rock, reaching out with their hand. The background shows a cloudy sky and more rocky terrain. The image is framed by a white border and set against a solid orange background.

Thank You