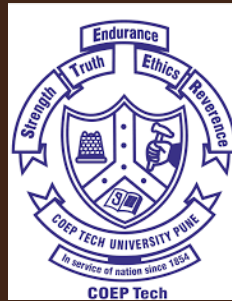## Course Objective

1 **Foundation in Data Science and AI Concepts**: To provide students with a solid understanding of the fundamental principles, theories, and practices in data science and AI.

2 **Hands-On Technical Skills**: To develop proficiency in programming languages commonly used in data science and AI such as Python, R, and SQL.

3 **Data Analysis and Interpretation:** To train students in collecting, processing, analyzing, and interpreting large datasets.

4 **Machine Learning and AI Applications:** To educate students on applying machine learning algorithms and AI techniques in various domains such as natural language processing, computer vision, robotics, and predictive analytics.

5 **Problem-Solving Skills:** To enhance critical thinking and problem-solving skills, enabling students to tackle real-world challenges using data-driven approaches.

6 **Project and Research Experience:** To provide practical experience through projects, case studies, and research opportunities.
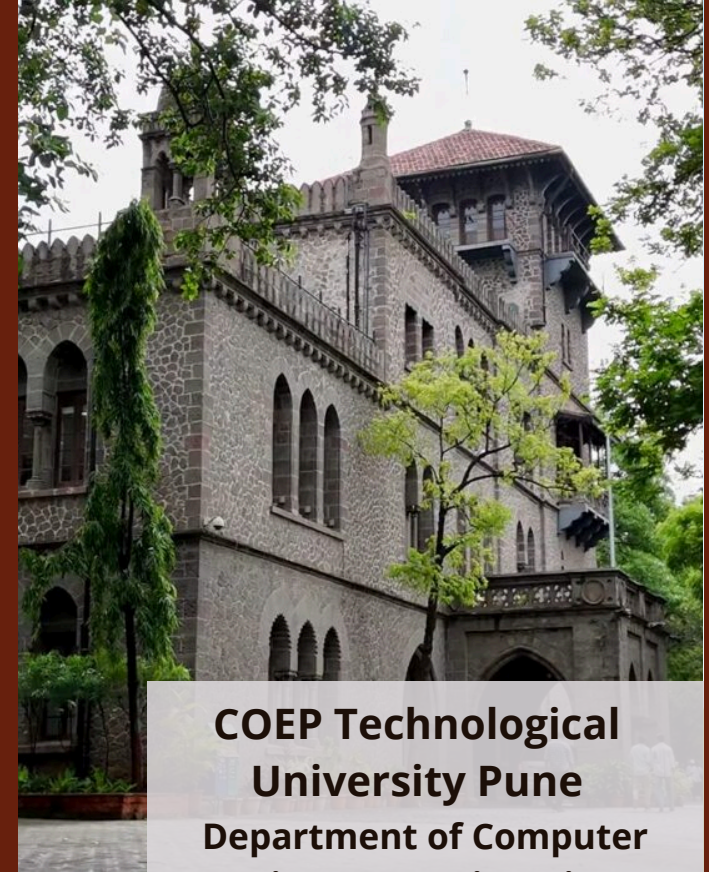

About COEP Tech

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 programmers 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.

COEP Technological University Pune
Department of Computer Science & Engineering

Post Graduate Diploma
in
Data Science & Artificial Intelligence (PGDDSAI)

Since 1854

📞 8308740815 / 02025507318

✉️ pgdsai.comp@coeptech.ac.in

🌐 COEP PGD Website (Click here)

📍 Department of Computer Science & Engineering, COEP Technological University Pune, 411005,

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Crafting Future-Ready Experts in Data & AI

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- 📘 **Industry-Relevant Curriculum**
- 🧠 **Hands-on AI & ML Projects**
- 🛠️ **Tools: Python, TensorFlow, SQL, Power BI**
- 🌐 **Real-world Case Studies & Capstone Project**
- 👨‍🏫 **Expert Faculty & Industry Mentors**
- 💼 **Placement Support & Internships**
- 🎓 **For Graduates from Any Discipline**
- ⏱️ **1-Year, Online Flexible Learning Format**

Eligibility Criteria

- Final-year students BE Any Stream, BCS, BCA, MCA, MCS, M.Tech. (Any Stream) are eligible to apply for the program.
- Candidates with B.E. (Any Stream), BCS, BCA, MCA, MCS, M.Tech. (Any Stream), or those with a background in Mathematics and Statistics can apply.
- The opportunity is open to both fresher and experienced professionals. Those appearing for their final year degree examination may also apply.

Selection procedure

- Two rounds of technical interview

Fees per student

- Rs. 2,31,000/-

Course Intake - 60

Course Structure

Sr.No.	Subject	Credits		Total Credits	Duration
		Theory	Lab		
	Trimester-1				
1.	Programming Fundamentals using Python	1	2	3	
2.	Mathematics for Data Science	3	-	3	
3.	Data Warehousing using MySQL and MongoDB	2	1	3	16 Week
4.	Machine Learning Fundamentals	2	1	3	
5.	Data Visualization using Tableau and Power BI	1	2	3	
	Total Credits			15	
	Trimester-2				
6.	Introduction to Artificial Intelligence	3	-	3	
7.	Big Data Technologies	2	1	3	
8.	Deep Learning	3	-	3	16 Week
9.	Natural Language Processing	2	1	3	
10.	Programming Fundamentals using R	1	2	3	
	Total Credits			15	
	Trimester-3				
11.	Ethical AI and Advanced Machine Learning	3	-	3	
12.	Computer Vision	3	-	3	16 Week
13.	Industry Project	9	-	9	
	Total Credits			15	
	PGDDSAI Course Total Credits			45	

Last Date to Apply Online:
31st July 2025