



NPTEL TRANSFORMING YOUNG MINDS

National Programme on Technology Enhanced Learning

INDIA'S LARGEST ONLINE LEARNING PROGRAM

Enrollment Open for Jan - Apr 2024 semester



719 NPTEL courses open for Jan - Apr 2024 Exam



614 NPTEL courses can be taken for FDP

E-Verifiable Certificate from IITs & IISc



NPTEL INITIATIVES

WHERE TODAY'S LEARNERS BECOME TOMORROW'S LEADERS



CREDIT TRANSFER FOR STUDENTS

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SUPPORT FOR SPOCS (LOCAL CHAPTERS)

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NPTEL+ SHORT PROGRAMS

Go further with NPTEL+ programs offering self-paced courses



INDUSTRY ASSOCIATES & CSR

Bridging academia and industry with NPTEL courses to cross-skill and up-skill the existing workforce.



VIDEO LECTURE TRANSCRIPTS & TRANSLATION

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DOMAIN CERTIFICATION

Complete courses that are grouped together and become an expert in select domains



28.07 LAKH+ Enrollments



6.75 LAKH+ Exam Registrations



Jul - Dec 2023 Semester



LOCAL CHAPTERS

5900+ colleges partnering with us



onlinecourses.nptel.ac.in

CONTACT US

NPTEL office, 3rd floor, IC & SR, IIT Madras, Chennai - 600 036

(044) 2257 5905 / 5908
+91 93632 18521

nptel.ac.in

support@nptel.iitm.ac.in

MULTIDISCIPLINARY

S.No.	Title of the Course	Instructor	Institution	Course Start Date	Exam Date	FDP
1	Basic Course in Ornithology	Prof. Mousumi Ghosh, Prof. Manjari Jain, Prof. R. Jayapal, Prof. Anand Krishnan, Prof. Suhel Quader, Prof. V.V. Robin & Prof. Umesh Srinivasan	NCF IISER Mohali SACON IISER Bhopal NCF IISER Tirupati IISc	Jan 22, 2024	Apr 20, 2024	Yes
2	Entrepreneurship Essentials	Prof. Manoj Kumar Mondal	IITKGP	Jan 22, 2024	Apr 20, 2024	Yes
3	Fundamental of Fluid Mechanics for Chemical and Biomedical Engineers	Prof. Raghvendra Gupta	IITG	Jan 22, 2024	Apr 21, 2024	No
4	Engineering Statistics	Prof. Manjesh Hanawal	IITB	Jan 22, 2024	Apr 21, 2024	Yes
5	Rural Water Resources Management	Prof. Pennan Chinnasamy	IITB	Jan 22, 2024	Apr 21, 2024	Yes
6	Introduction to Environmental Engineering and Science - Fundamental and Sustainability Concepts	Prof. Brajesh K Dubey	IITKGP	Jan 22, 2024	Apr 27, 2024	No
7	Research Methodology in Natural Sciences	Prof. Soumitro Banerjee	IISER Kolkata	Jan 22, 2024	Apr 27, 2024	Yes
8	Multi-Criteria Decision Making and Applications	Prof. Raghu Nandan Sengupta	IITK	Jan 22, 2024	Apr 28, 2024	Yes
9	Basic Certificate in Palliative Care	Prof. Geeta Joshi & Prof. Piyush Gupta	INTERNATIONAL INSTITUTE OF DISTANCE LEARNING AN INITIATIVE OF NAPCAIM	Jan 22, 2024	Apr 28, 2024	Yes
10	NBA Accreditation and Teaching and learning in Engineering (NATE)	Prof. N.J. Rao & Prof. K. Rajanikanth	IISc	Jan 22, 2024	Apr 28, 2024	Yes
11	Biophotonics	Prof. Basudev Lahiri	IITKGP	Jan 22, 2024	Apr 28, 2024	Yes
12	Foundation Certificate in Palliative Care	Prof. Geeta Joshi & Prof. Piyush Gupta	INTERNATIONAL INSTITUTE OF DISTANCE LEARNING AN INITIATIVE OF NAPCAIM	Jan 22, 2024	Apr 28, 2024	Yes
13	Groundwater Hydrology and Management	Prof. Pennan Chinnasamy	IITB	Jan 22, 2024	Apr 28, 2024	Yes
14	Non-Conventional Energy Resources	Prof. Prathap Haridoss	IITM	Jan 22, 2024	Apr 28, 2024	Yes
15	One Health	Multi Faculty	ICMR - Regional Medical Research Centre, Bhubaneswar	Jan 22, 2024	Apr 28, 2024	Yes
16	Conservation & Project Management of Baoli Water Systems	Multi Faculty	IITD	Jan 22, 2024	Apr 28, 2024	Yes
17	An Overview on Maternal Health Antenatal, Intranatal and Postnatal Care	Prof. Barnali Ghosh	IITKGP	Jan 22, 2024	Apr 28, 2024	Yes
18	Comprehensive Molecular Diagnostics and Advanced Gene Expression Analysis	Prof. Aritri Bir & Prof. Arindam Ghosh	IITKGP	Jan 22, 2024	Apr 28, 2024	Yes
19	Designing Learner-Centric MOOCs	Prof. Sahana Murthy, Prof. Jayakrishnan M & Prof. Sameer Sahasrabudhe	IITB	Jan 22, 2024	Apr 28, 2024	Yes
20	Basics of Mental Health & Clinical Psychiatry	Prof. Arijita Banerjee & Prof. Sumit Kumar	IITKGP	Jan 22, 2024	Mar 24, 2024	Yes
21	Fuzzy Logic and Neural Networks	Prof. Dilip Kumar Pratihari	IITKGP	Jan 22, 2024	Mar 23, 2024	No
22	Introduction to Reliability Engineering	Prof. Neeraj Kumar Goyal	IITKGP	Jan 22, 2024	Mar 24, 2024	Yes
23	Management of Medical Emergencies in Dental Practice	Multifaculty	Sree Balaji Dental College & Hospital and Tagore Dental College & Hospital	Jan 22, 2024	Mar 24, 2024	Yes
24	Nanobio Technology Enabled Point-of-Care Devices	Prof. Gorachand Dutta	IITKGP	Jan 22, 2024	Mar 24, 2024	Yes
25	Oral Biology	Prof. Ramya and Team	Saveetha Dental College & IITM	Jan 22, 2024	Mar 24, 2024	Yes
26	Roadmap for Patent Creation	Prof. Gouri Gargate	IITKGP	Jan 22, 2024	Mar 24, 2024	Yes
27	Vulnerability Studies: An Introduction	Prof. Pramod K Nayar	University of Hyderabad	Jan 22, 2024	Mar 24, 2024	Yes
28	Introduction to Research (New: Research Methodology)	Prof. Edamana Prasad & Prof. Prathap Haridoss	IITM	Feb 19, 2024	Apr 20, 2024	Yes
29	Medical Law	Prof. Chaitanya Mittal & Prof. Narendran Thiruthy	IITKGP	Feb 19, 2024	Apr 21, 2024	Yes
30	Recommender Systems	Prof. Mamata Jenamani	IITKGP	Feb 19, 2024	Apr 27, 2024	Yes
31	Teaching and Learning in Engineering (TALE)	Prof. N.J. Rao	IITKGP	Feb 19, 2024	Apr 28, 2024	Yes
32	Effective Engineering Teaching in Practice	Prof. G.K. Suraishkumar, Prof. Edamana Prasad & Prof. Richa Verma	IISc	Jan 22, 2024	Mar 24, 2024	Yes
33	An Introduction to Urban Ecological Heritage: Theories and Applications	Prof. Jenia Mukherjee	IITM	Jan 22, 2024	Mar 24, 2024	Yes
34	Outcome Based Pedagogic Principles for Effective Teaching	Prof. Shyamal Kumar Das Mandal	IITKGP	Feb 19, 2024	Apr 20, 2024	Yes
35	Pulmonary Function Tests - Interpretation and Application in Clinical Practice	Prof. Shyamal Kumar Das Mandal	IITKGP	Feb 19, 2024	Apr 21, 2024	Yes
36	Experimental Robotics	Multifaculty	Chettinad Hospital and Research Institute	Feb 19, 2024	Apr 27, 2024	Yes
		Prof. Dilip Kumar Pratihari	IITKGP	Feb 19, 2024	Apr 27, 2024	Yes



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More than
21 Lakh+
Learners are
Certified by
NPTEL
so far!

LEARN FOR FREE ENROLL NOW

Earn a Certificate from IITs & IISc

Jan - Apr 2024 Semester



20 Years of NPTEL

2003 - 2023

10 Years of Certification

2014 - 2024



STEPS

- Enroll to courses for free
- Watch videos / submit assignment
- Register for Exam (By Paying Fee)
- Download Hall ticket
- Actual Exam Date
- Possible additional Exam Date
- If pass, get certificate from IITs/IISc



TIMELINE

- 719 Courses Open Now
- Jan - Apr 2024
- Jan 01 - Feb 16 / Jan 01 - Mar 15, 2024
- Mar 15 / Apr 12, 2024
- Mar 23/24, Apr 20/21/27/28, 2024
- March 22 & April 18, 19, 22
- Apr 03 - 15 / May 01 - 20, 2024

YOU CAN GET
CERTIFIED IN
12 COURSES -
ALL IN A SINGLE
SEMESTER!

A BIG STEP FORWARD - NPTEL IS CONDUCTING EXAMS ON SIX DAYS

	4 weeks (SET 1)	8 weeks (SET 1)	12 weeks	4 weeks (SET 2)	8 weeks (SET 2)
Start of course	Jan 22, 2024	Jan 22, 2024	Jan 22, 2024	Feb 19, 2024	Feb 19, 2024
End of course	Feb 16, 2024	Mar 15, 2024	Apr 12, 2024	Mar 15, 2024	Apr 12, 2024
Exam dates	March 23/24, 2024 2 Sessions on each date 9:00 am - 12:00 noon, 2:00 pm - 5:00 pm			April 20/21/27/28, 2024 2 Sessions on each date 9:00 am - 12:00 noon, 2:00 pm - 5:00 pm	

Note: Exam dates are subject to change based on seat availability. Final exam date will be given in the Hall ticket. (Possible additional dates for Jan - Apr 2024 semester March 22 & April 18, 19, 22)

TO ENROLL



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DOUBLE DEGREES, DOUBLE SUCCESS



IIT Madras
BS Degree

Pursue a Diploma/BS Degree from IIT Madras Along with your Campus Degree

UGC allows students to pursue two academic programmes simultaneously
(UGC guidelines, April 2022)

FOR DATA SCIENCE AND APPLICATIONS

Learners should have studied Maths and English in Class 10
Learners can be from any stream (Science, Arts, etc)

FOR ELECTRONIC SYSTEMS

Learners should have studied Maths and
Physics in Class 12

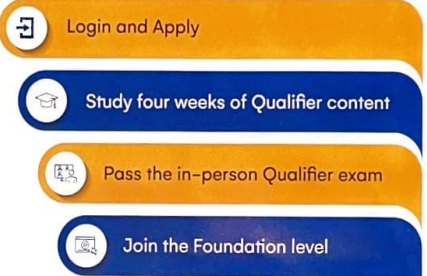


For partnership, college officials may write to coordinator@study.iitm.ac.in

PROGRAM STRUCTURE



ADMISSION PROCESS



TOPICS IN DATA SCIENCE

- Data Structures and Algorithms
- Machine Learning
- Deep Learning
- Artificial Intelligence
- Big Data
- Financial Forensics
- Data Visualization
- Large Language Model (LLM)
- Computer Vision

TOPICS IN ELECTRONIC SYSTEMS

- Electronic Systems Thinking and Circuits
- Electrical and Electronic Circuits
- Basic Digital Systems
- Signals and Systems
- Digital Signal Processing
- Embedded Linux
- Sensors and Applications
- Electronic Product Design
- Control Engineering

Fuel your ambition: Double your credentials
Empower yourself with the best of both worlds!



MORE THAN
22000 STUDENTS
STUDYING IN
THE PROGRAM!



IITM BS Degree Office, 3rd Floor, IC & SR Building,
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Data Science and Applications

study.iitm.ac.in/ds
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Electronic Systems

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