

## JIIT NOIDA

## GUIDELINES- MOOCs

## How to enroll (join) in a course

Please go to this link to join for courses that you/students are interested in. <https://onlinecourses.nptel.ac.in/>

## IMPORTANT STEPS:

- Learners have to say **YES** to the question 'Are you part of a Local Chapter'
- Choose the correct college name from the dropdown. This is very important; else the learner will not be available in your SPOC login
- Students choose the Profession as '**Student**'
- Faculty choose the Profession as 'Faculty' (Not Employed)
- Use the **same email id** for enrolling to courses & exam registration. Assignments submitted through one mail id & exam registered through another mail id will not be accepted
- **NEW:** Please note that the exam registration for the 12 week courses will be closed along with the set one 4wk and 8wk courses.

## Jul 2025 Timelines

	4 weeks (SET 1)	8 weeks (SET 1)	12 weeks	4 weeks (SET 2)	8 weeks (SET 2)
Start of course	Jul 21, 2025	Jul 21, 2025	Jul 21, 2025	Aug 18, 2025	Aug 18, 2025
End of course	Aug 15, 2025	Sep 12, 2025	Oct 10, 2025	Sep 12, 2025	Oct 10, 2025
Exam dates	Sep 20/21, 2025		Oct 25/26, 2025 Nov 01/02, 2025		
Possible additional Exam Dates	Sep 19, 2025		Oct 24, 2025 Oct 31, 2025		
Open enrollment to the course	22 May 2025				
Close enrollment to the course	Jul 28 2025			Aug 18 2025	
Open exam registration form	June 20, 2025				
Close exam registration form	Aug 11, 2025 / Aug 15, 2025			Aug 25, 2025 / Aug 29, 2025	

Enrolment link	<a href="https://onlinecourses.nptel.ac.in/">https://onlinecourses.nptel.ac.in/</a>
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**Note :** Incase of any query, students to connect with their HoDs or MOOC Coordinator, Prof Indira P Sarethy.

# JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, NOIDA

## MOOC COURSES-ODD SEM 2025

JIIT Elective Course Code	Subject Name	CREDITS	MOOC Equivalent Course on NPTEL	JIIT MOOC Course Code	Credits	NPTEL Link
<b>Dept of Biotech</b>						
17B1NBT739	BIO-COMPUTING AND APPLICATIONS	3	Next Generation Sequencing Technologies : Data Analysis and Applications	24B14BT420	3	<a href="https://onlinecourses.nptel.ac.in/Dr._Anirudh_Sharma/preview">https://onlinecourses.nptel.ac.in/Dr._Anirudh_Sharma/preview</a>
20M32BT212	Bioformulations	3	Availability and Management of Groundwater Resources	24M34BT213	3	
15B11BT413	BIOPROCESS ENGINEERING	3	Principles of Downstream Techniques in Bioprocess	24B14BT312	3	
19M22BT211	DIAGNOSTIC MICROBIOLOGY	3	Design for Biosecurity	24M24BT219	3	
17B1NBT737	ENZYMES IN FOOD PROCESSING	3	Food Oils and Fats : Chemistry and Technology	24B14BT419	3	
17B1NBT732	HEALTHCARE MARKETPLACE	3	Medical Image Analysis	24B14BT421	3	
22M22BT211	Market Research and Data Analysis	3	Introduction to Proteogenomics	24M24BT220	3	
17B1NBT735	MOLECULAR DIAGNOSTICS	3	Next Generation Sequencing	24B14BT420	3	
16B1NBT531	NETWORKS OF LIFE	3	Medical Image Analysis	24B14BT421	3	
17M12BT119	PHYTOTHERAPEUTICS AND PHARMACOLOGY	3	Design for Biosecurity	24M14BT111	3	
17M12BT118	PRODUCT DEVELOPMENT IN BIOTECHNOLOGY	3	Design for Biosecurity	24M14BT111	3	
17M12BT116	REGULATORY AFFAIRS	3	Drug Delivery: Principles and Engineering	24M14BT113	3	

17B1NBT734	STEM CELLS AND HEALTHCARE	3	Genome Editing and Engineering	24B14BT418	3	
17B1NBT733	STRESS: BIOLOGY, BEHAVIOUR AND MANAGEMENT	3	Medical Image Analysis	24B14BT421	3	
<b>Dept of CSE/IT</b>						
23M12CS111	Advanced programming with Python and R	3	The Joy of Computing using Python	25M14CS113		
18B12CS424	ALGORITHM ANALYSIS AND ARTIFICIAL INTELLIGENCE	3	Artificial Intelligence: Search Methods for Problem Solving	23B14CS452		
23M12CS114	Computer Vision	3	Deep Learning for Computer Vision	24M14CS142		
19B12CS423	COMPUTING FOR DATA SCIENCE	3	Mathematical Foundations for Machine Learning	25B14CS418		
23B12CS341	Cyber Security	3	Cyber Security and Privacy	25B14CS341		
15M3NCI231	E-COMMERCE AND SOCIAL WEB	3	Social Network Analysis	25M14CS114		
21B12CS418	Ethical Hacking and Prevention	3	Ethical Hacking	24B14CS487		
24B11CS351	Fundamentals of Computer Vision	3	Computer Vision	25B14CS351		
20B12CS331	FUNDAMENTALS OF MACHINE LEARNING	3	Introduction to Machine Learning	19B14CS411		
18B12CS428	INTRODUCTION TO DEEP LEARNING	3	Deep Learning - IIT Ropar	24B14CS484		
19B12CS427	INTRODUCTION TO DEVOPS	3	Software Project Management	25B14CS419		
21B12CS417	Machine Learning and Big Data	3	Responsible & Safe AI Systems	24B14CS486		

20B12CS334	OBJECT ORIENTED ANALYSIS AND DESIGN USING JAVA	3	Programming in Java	20B14CS313		
21B12CS414	Smart Systems and IOT	3	Introduction to Internet of Things	24B14CS485		
15B1NCI732	SOCIAL NETWORK ANALYSIS	3	Social Networks	18B14CS411		
23M12CS113	Software Quality and Testing	3	Software Testing	24M14CS141		
<b>Dept of ECE</b>						
17B1NEC735	INFORMATION THEORY AND APPLICATIONS	3	Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	25B14EC413		
20M51EC121	INTRODUCTION TO IOT SYSTEM DESIGN	3	Electronic Systems Design: Hands-on Circuits and PCB Design with CAD Software	25B14EC414		
22B12EC413	Low Power CMOS VLSI Circuit Design	3	Fabrication Techniques for MEMs-based sensors : Clinical perspective	24B14EC426		
15B1NEC731	SOFT COMPUTING IN ELECTRONICS	3	Microelectronics :devices and Circuits	24B14EC424		
<b>Dept of HSS</b>						
24B12HS314	Contemporary India: A Sociological Perspective	3	Indian Society: Sociological Perspectives	24B14HS425	3	<a href="https://onlinecourses.nptel.ac.in/noc24hs140/preview">https://onlinecourses.nptel.ac.in/noc24hs140/preview</a>
15P1NHS231	DATA ANALYSIS TECHNIQUES IN SOCIAL SCIENCE RESEARCH	3	Introduction to Research Methodology	25P14HS111		

16B1NHS433	FINANCIAL MANAGEMENT	3	Foundations of Accounting & Finance	24M24HS216	3	<a href="#">Foundations of Accounting &amp; Finance - Course (nptel.ac.in)</a>
24M22HS214	Financial Markets	3	Economics of Banking and	24M24HS215		<a href="#">Economics of Banking and Finance</a>
18B12HS412	HUMAN RESOURCE	3	HR Analytics	25B14HS411	3	<a href="#">HR Analytics - Course (nptel.ac.in)</a>
21B12HS312	Management Accounting	3	Management accounting	25B14HS311		<a href="https://onlinecourses.nptel.ac.in/noc21mg62/preview">https://onlinecourses.nptel.ac.in/noc21mg62/preview</a>
16B1NHS432	POSITIVE PSYCHOLOGY	3	Applied Positive Psychology	25B14HS313	3	<a href="#">Dr.Badri Bajaj,Dr.Shweta Verma</a>
12PCGM04	SURVEY DEVELOPMENT AND ANALYSIS	3	Marketing Research and Analysis	25P14HS111	3	<a href="#">Marketing Research and Analysis - Course (nptel.ac.in)</a>
25B12HS313	Indian English Literature	3	Short Fiction in Indian Literature	25B14HS312	3	<a href="https://nptel.ac.in/courses/109106138">https://nptel.ac.in/courses/109106138</a>
12PCGM03	Quantitative Techniques and Statistical Analysis	3	Marketing Research and Analysis	25P14HS111	3	<a href="#">Marketing Research and Analysis - Course (nptel.ac.in)</a>
<b>Dept of Mathematics</b>						
18M12MA111	ADVANCED OPERATIONS RESEARCH	3	Partial Differential Equations - IITB	25M14MA211	3	
17B1NMA731	APPLIED LINEAR ALGEBRA	3	Linear Algebra	25B14MA411	3	
17B1NMA732	APPLIED NUMERICAL METHODS	3	Introduction to Methods of Applied Mathematics	25B14MA414	3	
17B1NMA531	BASIC NUMERICAL METHODS	3	Introduction to Fuzzy Set Theory, Arithmetic and Logic	25B14MA315	3	
16B1NMA531	DISCRETE MATHEMATICS	3	Foundations of R Software	25B14MA316	3	
22M22MA211	Fluid Dynamics	3	Computational Commutative Algebra	25M14MA212	3	
20M22MA213	FUZZY SETS AND APPLICATIONS	3	Approximate Reasoning using Fuzzy Set Theory	25M14MA213	3	

19B12MA412	GENERALIZED FUZZY SET THEORY WITH APPLICATIONS	3	Introduction to Fourier Analysis	25B14MA412	3	
21M22MA215	Graph Theory	3	Matrix Computation and its Applications	25M14MA214	3	
18B12MA312	LOGICAL REASONING AND INEQUALITIES	3	Combinatorics	25B14MA311	3	
16B1NMA533	MATRIX COMPUTATIONS	3	Complex Analysis	25B14MA314	3	
17B1NMA533	STATISTICAL INFORMATION THEORY WITH APPLICATIONS	3	Probability Theory for Data Science	25B14MA312	3	
24M22MA211	Theory of Computation	3	A Primer to Mathematical Optimization	24M14MA211	3	
16B1NMA731	THEORY OF NUMBERS	3	Ordinary Differential Equations	25B14MA313	3	
22B12MA411	Advanced Statistical Methods	3	Regression Analysis	24B14MA414	3	
22B12MA412	Geometric Algebra for computer graphics	3	Differential Equations for Engineers	25B14MA413	3	
21M22MA211	Number Theory	3	A Basic Course in Number Theory	25M14MA215	3	
22M22MA213	Data Structures	3	Essential Mathematics for Machine Learning	25M14MA216	3	
Ph.D	Ph.D Course Work	3	Mathematical Methods and its Applications	25P14MA111	3	
<b>Dept of PMSE</b>						
22B12PH311	Engineering Materials and Technology	3	Materials Design for Electronic, Electromechanical and Optical Functions	24B14PH313	3	<a href="#">Materials Design for Electronic, Electromechanical and Optical Functions - Course</a>

18M11PH114	STRUCTURE AND CHARACTERIZATION OF MATERIALS	3	Physics of Functional Materials & Devices	24P14PH111	3	<a href="#">Physics of Functional Materials &amp; Devices - Course</a>
<b>Dept of Computer Applications</b>						
25B12CA312	Data Analytics using Python and R	3	Advanced R Programming for Data Analytics in Business	25B14CA312	3	<a href="https://onlinecourses.nptel.ac.in/noc24_mg113/preview">https://onlinecourses.nptel.ac.in/noc24_mg113/preview</a>
25B12CA313	Introduction to Deep Learning	3	Deep Learning - IIT Ropar	25B14CA315	3	<a href="https://onlinecourses.nptel.ac.in/noc24_cs114/preview">https://onlinecourses.nptel.ac.in/noc24_cs114/preview</a>
25B12CA314	Statistical Methods for Data Science	3	Data Science for Engineers	25B14CA316	3	<a href="https://onlinecourses.nptel.ac.in/noc24_cs133/preview">https://onlinecourses.nptel.ac.in/noc24_cs133/preview</a>
25B12CA316	Full Stack Developer-I(Java development)	3	Programming in Java	25B14CA317	3	<a href="https://onlinecourses.nptel.ac.in/noc24_cs105/preview">https://onlinecourses.nptel.ac.in/noc24_cs105/preview</a>
25M12CA211	Cyber Security Essentials	3	Cyber Security and Privacy	25M14CA211	3	<a href="https://onlinecourses.nptel.ac.in/noc24_cs121/preview">https://onlinecourses.nptel.ac.in/noc24_cs121/preview</a>
25M12CA213	Fundamentals of Reinforcement Learning	3	Reinforcement Learning	25M14CA213	3	<a href="https://onlinecourses.nptel.ac.in/noc24_cs102/preview">https://onlinecourses.nptel.ac.in/noc24_cs102/preview</a>
25M12CA214	Big data Management Systems	3	Big Data Computing	25M14CA214	3	<a href="https://onlinecourses.nptel.ac.in/noc24_cs130/preview">https://onlinecourses.nptel.ac.in/noc24_cs130/preview</a>
24M12CA215	IoT Programming and Applications	3	Introduction to Industry 4.0 and Industrial Internet of Things	25M14CA215	3	<a href="https://onlinecourses.nptel.ac.in/noc24_cs95/preview">https://onlinecourses.nptel.ac.in/noc24_cs95/preview</a>
24M12CA216	Social Network Analysis	3	Social Network Analysis	25M14CA216	3	<a href="https://onlinecourses.nptel.ac.in/noc25_cs65/preview">https://onlinecourses.nptel.ac.in/noc25_cs65/preview</a>
<b>Dept of Management-JBS</b>						
20M12BIA16	DATA MANAGEMENT AND ANALYSIS USING R	4	Advanced R Programming for Data Analytics in Business	24M14BIA16	3	<a href="https://onlinecourses.nptel.ac.in/noc24_mg113/preview">https://onlinecourses.nptel.ac.in/noc24_mg113/preview</a>
20B12BAF16	INVESTMENT MANAGEMENT	4	Quantitative Investment Management	24B14BAF16	3	<a href="https://onlinecourses.nptel.ac.in/noc24_mg101/preview">https://onlinecourses.nptel.ac.in/noc24_mg101/preview</a>
20B12BMM19	Product & brand Management	4	Product and Brand Management	24B14BMM19	3	<a href="https://onlinecourses.nptel.ac.in/noc24_mg89/preview">https://onlinecourses.nptel.ac.in/noc24_mg89/preview</a>

20M12BAF11	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	4	Security Analysis & Portfolio Management	24M14BAF11	3	<a href="https://onlinecourses.nptel.ac.in/noc24_mg102/preview">https://onlinecourses.nptel.ac.in/noc24_mg102/preview</a>
20M12BMM16	SERVICES MARKETING	4	Services Marketing : Integrating People, Technology, Strategy	24M14BMM16	3	<a href="https://onlinecourses.nptel.ac.in/noc24_mg94/preview">https://onlinecourses.nptel.ac.in/noc24_mg94/preview</a>
20M12BOM19	Strategic Service Operations Management	4	Service Management: Integrating Strategy, Operations, and Technology	24M14BOM19	3	<a href="https://onlinecourses.nptel.ac.in/noc24_mg111/preview">https://onlinecourses.nptel.ac.in/noc24_mg111/preview</a>
20M12BOM16	Sustainable Supply Chain Management	4	Logistics & Supply Chain Management	24M14BOM16	3	<a href="https://onlinecourses.nptel.ac.in/noc24_hs128/preview">https://onlinecourses.nptel.ac.in/noc24_hs128/preview</a>
20B12BAF14	WORKING CAPITAL MANAGEMENT	4	Working Capital Management	24B14BAF14	3	<a href="https://onlinecourses.nptel.ac.in/noc24_mg100/preview">https://onlinecourses.nptel.ac.in/noc24_mg100/preview</a>