



## Department of Information Technology

**NPTEL Courses Identified for Honours Degree for the period of Jan - Apr, 2025**

**Following are the rules to obtain Honours Degree in information Technology.**

- (i) Choose NPTEL courses from the following list which were not studied in your B.E IT engineering degree.
- (ii) Student shall be permitted to take a maximum of 2 theory courses/courses equivalent to 6 credits during any semester for additional learning towards Honours curriculum.
- (iii) 12 weeks courses carries 3 credits, 8 weeks courses carries 2 credits, 4 weeks courses carries 1 credit.
- (iv) Courses which will be opted from the below list must be registered in the IT department.

**The Tentative List of NPTEL Courses for Honours Degree Approved by IT Department are given below. AY:2024-25**

S.No	Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
1	noc25-cs03	Advanced Graph Theory	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs03/preview">https://onlinecourses.nptel.ac.in/noc25_cs03/preview</a>
2	noc25-cs04	Affective Computing	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs04/preview">https://onlinecourses.nptel.ac.in/noc25_cs04/preview</a>
3	noc25-cs06	Algorithms in Computational Biology and Sequence Analysis	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs06/preview">https://onlinecourses.nptel.ac.in/noc25_cs06/preview</a>
4	noc25-cs08	Blockchain and its Applications	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs08/preview">https://onlinecourses.nptel.ac.in/noc25_cs08/preview</a>
5	noc25-cs10	Circuit Complexity Theory	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs10/preview">https://onlinecourses.nptel.ac.in/noc25_cs10/preview</a>
6	noc25-cs12	Cloud Computing and Distributed Systems	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs12/preview">https://onlinecourses.nptel.ac.in/noc25_cs12/preview</a>
7	noc25-cs14	Computational Number Theory and Algebra	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs14/preview">https://onlinecourses.nptel.ac.in/noc25_cs14/preview</a>
8	noc25-cs15	Computer Networks And Internet Protocol	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs15/preview">https://onlinecourses.nptel.ac.in/noc25_cs15/preview</a>
9	noc25-cs16	Cryptography and Network Security	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs16/preview">https://onlinecourses.nptel.ac.in/noc25_cs16/preview</a>
10	noc25-cs20	Data Science for Engineers	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs20/preview">https://onlinecourses.nptel.ac.in/noc25_cs20/preview</a>



Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course	
12	noc25-cs22	Deep Learning for Natural Language Processing	12 weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs22/preview">https://onlinecourses.nptel.ac.in/noc25_cs22/preview</a>
	noc25-cs24	Design and Engineering of Computer Systems	8 Weeks	January 20, 2025	March 14, 2025	March 23, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs24/preview">https://onlinecourses.nptel.ac.in/noc25_cs24/preview</a>
13	noc25-cs25	Digital Design with Verilog	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs25/preview">https://onlinecourses.nptel.ac.in/noc25_cs25/preview</a>
14	noc25-cs28	Edge Computing	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs28/preview">https://onlinecourses.nptel.ac.in/noc25_cs28/preview</a>
15	noc25-cs29	Embedded System Design with ARM	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs29/preview">https://onlinecourses.nptel.ac.in/noc25_cs29/preview</a>
16	noc25-cs30	Embedded Systems Design	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs30/preview">https://onlinecourses.nptel.ac.in/noc25_cs30/preview</a>
17	noc25-cs31	Foundations of Cryptography	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs31/preview">https://onlinecourses.nptel.ac.in/noc25_cs31/preview</a>
18	noc25-cs32	Foundations of Cyber Physical Systems	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs32/preview">https://onlinecourses.nptel.ac.in/noc25_cs32/preview</a>
19	noc25-cs37	GPU Architectures and Programming	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs37/preview">https://onlinecourses.nptel.ac.in/noc25_cs37/preview</a>
20	noc25-cs38	Human Computer Interaction (In English)	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs38/preview">https://onlinecourses.nptel.ac.in/noc25_cs38/preview</a>
21	noc25-cs39	Information Security - 5 - Secure Systems Engineering	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs39/preview">https://onlinecourses.nptel.ac.in/noc25_cs39/preview</a>
22	noc25-cs42	Introduction To Haskell Programming	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs42/preview">https://onlinecourses.nptel.ac.in/noc25_cs42/preview</a>
23	noc25-cs43	Introduction To Industry 4.0 And Industrial Internet Of Things	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs43/preview">https://onlinecourses.nptel.ac.in/noc25_cs43/preview</a>
24	noc25-cs45	Introduction to Large Language Models (LLMs)	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs45/preview">https://onlinecourses.nptel.ac.in/noc25_cs45/preview</a>
25	noc25-cs48	Introduction To Soft Computing	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs48/preview">https://onlinecourses.nptel.ac.in/noc25_cs48/preview</a>
26	noc25-cs54	Parallel Computer Architecture	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs54/preview">https://onlinecourses.nptel.ac.in/noc25_cs54/preview</a>
27	noc25-cs55	Practical High-Performance Computing	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs55/preview">https://onlinecourses.nptel.ac.in/noc25_cs55/preview</a>
28	noc25-cs61	Quantum Algorithms and Cryptography	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs61/preview">https://onlinecourses.nptel.ac.in/noc25_cs61/preview</a>
29	noc25-cs62	Reinforcement Learning	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs62/preview">https://onlinecourses.nptel.ac.in/noc25_cs62/preview</a>
30	noc25-cs63	Secure Computation: Part I	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs63/preview">https://onlinecourses.nptel.ac.in/noc25_cs63/preview</a>
31	noc25-cs65	Social Networks	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs65/preview">https://onlinecourses.nptel.ac.in/noc25_cs65/preview</a>
32	noc25-cs66	Software Testing	4 Weeks	January 20, 2025	February 14, 2025	March 22, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs66/preview">https://onlinecourses.nptel.ac.in/noc25_cs66/preview</a>



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	noc25-cs68	Systems and Usable Security	4 Weeks	January 20, 2025	February 14, 2025	March 22, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs68/preview">https://onlinecourses.nptel.ac.in/noc25_cs68/preview</a>
34	noc25-cs71	Time Series Modelling and Forecasting with Applications in R	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs71/preview">https://onlinecourses.nptel.ac.in/noc25_cs71/preview</a>
35	noc25-cs72	User-centric Computing For Human-Computer Interaction	8 Weeks	January 20, 2025	March 14, 2025	March 23, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs72/preview">https://onlinecourses.nptel.ac.in/noc25_cs72/preview</a>
36	noc25-cs73	VLSI Physical Design	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs73/preview">https://onlinecourses.nptel.ac.in/noc25_cs73/preview</a>
37	noc25-cs74	Wireless Ad Hoc and Sensor Networks	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs74/preview">https://onlinecourses.nptel.ac.in/noc25_cs74/preview</a>
38	noc25-cs75	Foundation of Cloud IoT Edge ML	8 Weeks	February 17, 2025	April 11, 2025	April 26, 2025	February 17, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs75/preview">https://onlinecourses.nptel.ac.in/noc25_cs75/preview</a>
39	noc25-cs76	Large Applications Practicum	4 Weeks	February 17, 2025	March 14, 2025	April 26, 2025	February 17, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs76/preview">https://onlinecourses.nptel.ac.in/noc25_cs76/preview</a>
40	noc25-cs77	Linear programming and its applications to computer science	8 Weeks	February 17, 2025	April 11, 2025	May 3, 2025	February 17, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs77/preview">https://onlinecourses.nptel.ac.in/noc25_cs77/preview</a>
41	noc25-cs78	Real Time Operating System	4 Weeks	February 17, 2025	March 14, 2025	April 26, 2025	February 17, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs78/preview">https://onlinecourses.nptel.ac.in/noc25_cs78/preview</a>
42	noc25-cs79	Privacy and Security in Online Social Media	12 weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs79/preview">https://onlinecourses.nptel.ac.in/noc25_cs79/preview</a>

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Department of IT  
 CBIT, Hyderabad