





# Department of Information Technology

NPTEL Courses Identified for Additional Minor Engineering(Data Science) Degree for the period of July - Dec, 2025

Following are the rules to obtain Additional Minor Engineering Degree in Data Science.

i) Choose NPTEL courses from the following list which were not studied in your B.E/B.Tech 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 Additional Minor Engineering(Data Science) Degree Approved by IT Department are given below.

A.Y: 2025 -26

S NO	Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
1	noc25-cs88	Artificial Intelligence: Search Methods for Problem Solving	12 Weeks	July 21, 2025	October 10, 2025	October 26, 2025	July 28, 2025	https://onlinecourses.nptel.ac.in /noc25_cs88/preview
2	noc25-cs91	Introduction to Machine Learning	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	https://onlinecourses.nptel.ac.in /noc25_cs91/preview
3	noc25-cs92	Reinforcement Learning	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	https://onlinecourses.nptel.ac.in /noc25_cs92/preview
4	noc25-cs93	Deep Learning for Computer Vision	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	https://onlinecourses.nptel.ac.in /noc25_cs93/preview
5	noc25-cs98	Applied Accelerated Artificial Intelligence	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	https://onlinecourses.nptel.ac.in /noc25_cs98/preview
6	noc25-cs100	*	12 Weeks	July 21, 2025	October 10, 2025	October 26, 2025	July 28, 2025	https://onlinecourses.nptel.ac.in /noc25_cs100/preview
7	noc25-cs101	Data Science for Engineers	8 Weeks	July 21, 2025	September 12, 2025	September 21, 2025	July 28, 2025	https://onlinecourses.nptel.ac.in /noc25_cs101/preview
8	-	Python for Data Science	4 Weeks	July 21, 2025	August 15, 2025	September 20, 2025	July 28, 2025	https://onlinecourses.nptel.ac.in /noc25_cs104/preview
9			12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	https://onlinecourses.nptel.ac.in /noc25_cs106/preview
10		Responsible & Safe AI Systems	12 Weeks	July 21, 2025	October 10, 2025	October 26, 2025	July 28, 2025	https://onlinecourses.nptel.ac.in /noc25_cs118/preview

/	ourse ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
1								https://onlinecourses.nptel.ac.in
11	noc25-cs131	Big Data Computing	8 Weeks	August 18, 2025	October 10, 2025	November 2, 2025	August 18, 2025	/noc25_cs131/preview
		Mathematical Foundations for Machine						https://onlinecourses.nptel.ac.in
12	noc25-cs136	Learning	12 Weeks	July 21, 2025	October 10, 2025	November 1, 2025	July 28, 2025	/noc25_cs136/preview
								https://onlinecourses.nptel.ac.in
13	noc25-cs137	Programming with Generative AI	8 Weeks	August 18, 2025	October 10, 2025	November 1, 2025	August 18, 2025	/noc25_cs137/preview
		Introduction to Machine Learning -						https://onlinecourses.nptel.ac.in
14	noc25-cs149	IITKGP	8 Weeks	July 21, 2025	September 12, 2025	September 21, 2025	July 28, 2025	/noc25_cs149/preview
								https://onlinecourses.nptel.ac.in
15	noc25-cs152	Artificial Intelligence for Economics	8 Weeks	July 21, 2025	September 12, 2025	September 21, 2025	July 28, 2025	/noc25_cs152/preview
		Machine Learning for Earth System						https://onlinecourses.nptel.ac.in
16	noc25-cs157	Sciences	8 Weeks	July 21, 2025	September 12, 2025	September 21, 2025	July 28, 2025	/noc25_cs157/preview
		Artificial Intelligence: Concepts and		a first of the second second				https://onlinecourses.nptel.ac.in
17	noc25-cs159		12 Weeks	July 21, 2025	October 10, 2025	November 2, 2025	July 28, 2025	/noc25_cs159/preview
								https://onlinecourses.nptel.ac.in
18	noc25-cs160	Scalable Data Science	8 Weeks	July 21, 2025	September 12, 2025	September 21, 2025	July 28, 2025	/noc25_cs160/preview
		Introduction to Large Language						https://onlinecourses.nptel.ac.in
19	noc25-cs161	Models (LLMs)	12 Weeks	<sup>-</sup> July 21, 2025	October 10, 2025	November 2, 2025	July 28, 2025	/noc25_cs161/preview

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Coordinator

M. Vergeral Head, I.T

**PROFESSOR & HEAD** Department of Information Technology Chaitanya Bharathi Institute of Technology (A) Gandipet, Hyderabad-500 075. Telangana





### Department of Information Technology

NPTEL Courses Identified for Additional Minor Engineering (Augmented Reality & Virtual Reality) Degree for the period of July - Dec, 2025

Following are the rules to obtain Additional Minor Engineering Degree in Augmented Reality & Virtual Reality.

i) Choose NPTEL courses from the following list which were not studied in your B.E/B.Tech 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 Additional Minor Engineering (Augmented Reality & Virtual Reality) Degree Approved by IT Department are given below. A.Y: 2025 - 26

S NO	Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
1	noc25-cs80	Mobile Virtual Reality and Artificial Intelligence	4 Weeks	August 18, 2025	September 12, 2025	October 26, 2025	August 18, 2025	https://onlinecourses.nptel.ac.i n/noc25_cs80/preview
2	noc25-cs85	Introduction to Algebraic Graph Theory	8 Weeks	August 18, 2025	October 10, 2025	November 2, 2025	August 18, 2025	https://onlinecourses.nptel.ac.i n/noc25_cs85/preview
3	noc25-cs87	Foundations of Virtual Reality	12 Weeks	July 21, 2025	October 10, 2025	November 2, 2025	July 28, 2025	https://onlinecourses.nptel.ac.i n/noc25_cs87/preview
4	noc25-cs91	Introduction to Machine Learning	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	https://onlinecourses.nptel.ac.i n/noc25_cs91/preview
5	noc25-cs92	Reinforcement Learning	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	https://onlinecourses.nptel.ac.i n/noc25_cs92/preview
6	noc25-cs93	Deep Learning for Computer Vision	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	https://onlinecourses.nptel.ac.i n/noc25_cs93/preview
7	noc25-cs98	Applied Accelerated Artificial Intelligence	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	https://onlinecourses.nptel.ac.i n/noc25_cs98/preview
8		Computer Graphics	8 Weeks	July 21, 2025	September 12, 2025	September 21, 2025	July 28, 2025	https://onlinecourses.nptel.ac.i n/noc25_cs133/preview
9		Design & Implementation of Human- Computer Interfaces	12 Weeks	July 21, 2025	October 10, 2025	November 2, 2025	July 28, 2025	https://onlinecourses.nptel.ac.i n/noc25_cs135/preview

SNO	Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
10					0.1.1. 10.0005	N		https://onlinecourses.nptel.ac.i
10		Computer Vision	12 Weeks	July 21, 2025	October 10, 2025	November 2, 2025		n/noc25_cs143/preview
		Introduction to Industry 4.0 and						https://onlinecourses.nptel.ac.i
11		Industrial Internet of Things	12 Weeks	July 21, 2025	October 10, 2025	November 1, 2025	July 28, 2025	n/noc25_cs146/preview
								https://onlinecourses.nptel.ac.i
12	noc25-cs151	Algorithmic Game Theory	12 Weeks	July 21, 2025	October 10, 2025	November 2, 2025	July 28, 2025	n/noc25_cs151/preview
								https://onlinecourses.nptel.ac.i
13	noc25-cs156	Real-Time Systems	12 Weeks	July 21, 2025	October 10, 2025	November 2, 2025	July 28, 2025	n/noc25_cs156/preview

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Star /	Kokapet Village, Gandipet Mandal, Hyderabad, Telangana 500075, www.cbit.ac.in	

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#### **Department of Information Technology**

## NPTEL Courses Identified for Additional Minor Engineering (Information Security) Degree for the period of July - Dec, 2025

Following are the rules to obtain Additional Minor Engineering Degree in Information Security.

i) Choose NPTEL courses from the following list which were not studied in your B.E/B.Tech 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 Additional Minor Engineering(Information Security) Degree Approved by IT Department are given below. A.Y: 2025 -26

S NO	Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
1		Introduction to Quantum Computing:						https://onlinecourses.nptel.ac.i
<u> </u>	noc25-cs95	Quantum Algorithms and Qiskit	4 Weeks	July 21, 2025	August 15, 2025	September 20, 2025	July 28, 2025	n/noc25_cs95/preview
2								https://onlinecourses.nptel.ac.i
-	noc25-cs116	Cyber Security and Privacy	12 Weeks	July 21, 2025	October 10, 2025	October 26, 2025	July 28, 2025	n/noc25_cs116/preview
2		Privacy and Security in Online Social						https://onlinecourses.nptel.ac.i
5	noc25-cs117	Media	12 Weeks	July 21, 2025	October 10, 2025	October 26, 2025	July 28, 2025	n/noc25_cs117/preview
4		Practical Cyber Security for Cyber						https://onlinecourses.nptel.ac.i
4	noc25-cs120	Security Practitioners	12 Weeks	July 21, 2025	October 10, 2025	October 26, 2025	July 28, 2025	n/noc25_cs120/preview
5								https://onlinecourses.nptel.ac.i
0	noc25-cs125	Demystifying Networking	4 Weeks	July 21, 2025	August 15, 2025	September 21, 2025	July 28, 2025	n/noc25_cs125/preview
6	noc25-cs126	Introduction to Computer and Network Performance Analysis using Queuing Systems	4 Weeks	August 18, 2025	September 12, 2025	November 1, 2025	August 18, 2025	https://onlinecourses.nptel.ac.i n/noc25 cs126/preview
_								https://onlinecourses.nptel.ac.i
7	noc25-cs128	Secure Computation: Part II	12 Weeks	July 21, 2025	October 10, 2025	November 2, 2025	July 28, 2025	n/noc25 cs128/preview
0								https://onlinecourses.nptel.ac.i
8	noc25-cs142	Ethical Hacking	12 Weeks	July 21, 2025	· October 10, 2025	November 1, 2025	July 28, 2025	n/noc25_cs142/preview
9	-							https://onlinecourses.nptel.ac.i
9	noc25-cs160	Scalable Data Science	8 Weeks	July 21, 2025	September 12, 2025	September 21, 2025	July 28, 2025	n/noc25_cs160/preview

Coordinator

**PROFESSOR & HEAD** Department of Information Technology Chaitanya Bharathi Institute of Technology (A)





## Department of Information Technology

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NPTEL Courses Identified for Additional Minor Engineering (Artificial Intelligence) Degree for the period July - Dec, 2025

Following are the rules to obtain Additional Minor Engineering Degree in Artificial Intelligence.

i) Choose NPTEL courses from the following list which were not studied in your B.E/B.Tech 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 Additional Minor Engineering (Artificial Intelligence) Degree Approved by IT Department are given below. A.Y: 2025 - 26

S NO	Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
		Mobile Virtual Reality and Artificial						https://onlinecourses.nptel.ac.
1	noc25-cs80	Intelligence	4 Weeks	August 18, 2025	September 12, 2025	October 26, 2025	August 18, 2025	in/noc25_cs80/preview
		Distributed Optimization and Machine					The second second	https://onlinecourses.nptel.ac.
2	noc25-cs86	Learning	12 Weeks	July 21, 2025	October 10, 2025	October 26, 2025	July 28, 2025	in/noc25_cs86/preview
		Artificial Intelligence: Search Methods					QY.A.	https://onlinecourses.nptel.ac.
3	noc25-cs88	for Problem Solving	12 Weeks	July 21, 2025	October 10, 2025	October 26, 2025	July 28, 2025	in/noc25_cs88/preview
								https://onlinecourses.nptel.ac.
4	noc25-cs91	Introduction to Machine Learning	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	in/noc25_cs91/preview
								https://onlinecourses.nptel.ac.
5	noc25-cs92	Reinforcement Learning	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	in/noc25_cs92/preview
								https://onlinecourses.nptel.ac.
6	noc25-cs93	Deep Learning for Computer Vision	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	in/noc25_cs93/preview
		Applied Accelerated Artificial						https://onlinecourses.nptel.ac.
7	noc25-cs98	Intelligence	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	in/noc25_cs98/preview
								https://onlinecourses.nptel.ac.
8	noc25-cs101	Data Science for Engineers	8 Weeks	July 21, 2025	September 12, 2025	September 21, 2025	July 28, 2025	in/noc25_cs101/preview
								https://onlinecourses.nptel.ac.
9	noc25-cs106	Deep Learning - IIT Ropar	12 Weeks	July 21, 2025	October 10, 2025	October 25, 2025	July 28, 2025	in/noc25_cs106/preview
								https://onlinecourses.nptel.ac.
10	noc25-cs118	Responsible & Safe AI Systems	12 Weeks	July 21, 2025	October 10, 2025	October 26, 2025	July 28, 2025	in/noc25_cs118/preview

	1			01 1 1 1	End date	Exam date	Enrollment End	Click here to Join the
25	Course ID	Course Name	Duration	Start date	Enduate	Examutate	date	course
11		tin LE stations for Machina						https://onlinecourses.nptel.ac.
1 11		Mathematical Foundations for Machine	10 10/00/00	July 21, 2025	October 10, 2025	November 1, 2025	July 28, 2025	in/noc25_cs136/preview
111	noc25-cs136	Learning	12 Weeks	July 21, 2025	000000110,2020	10000111001 1, ====		https://onlinecourses.nptel.ac.
12			0 Maaka	August 18, 2025	October 10, 2025	November 1, 2025	August 18, 2025	in/noc25_cs137/preview
12	noc25-cs137	Programming with Generative AI	8 Weeks	August 10, 2023	001000110,2020	11010111001 1, 2021	0	https://onlinecourses.nptel.ac.
10				L.L. 04 0005	October 10, 2025	November 2, 2025	July 28, 2025	in/noc25 cs143/preview
13	noc25-cs143	Computer Vision	12 Weeks	July 21, 2025	OCIODEI 10, 2023	14070111001 2, 2020		https://onlinecourses.nptel.ac.
		Introduction to Machine Learning -	A A A A A A A A A A A A A A A A A A A		Quetershar 10, 2025	September 21, 2025	July 28, 2025	in/noc25 cs149/preview
14	noc25-cs149	IITKGP	8 Weeks	July 21, 2025	September 12, 2025	September 21, 2020	0 diy 20, 2020	https://onlinecourses.nptel.ac.
					0 1 1 10 0005	September 21, 2025	July 28, 2025	in/noc25 cs152/preview
15	noc25-cs152	Artificial Intelligence for Economics	8 Weeks	July 21, 2025	September 12, 2025	September 21, 2025	July 20, 2020	https://onlinecourses.nptel.ac.
	110020 00.00	Machine Learning for Earth System					1.1.20 2025	in/noc25 cs157/preview
16	noc25-cs157	Sciences	8 Weeks	July 21, 2025	September 12, 2025	September 21, 2025	July 28, 2025	https://onlinecourses.nptel.ac.
	110020-03107	Artificial Intelligence: Concepts and						
17	05 150		12 Weeks	July 21, 2025	October 10, 2025	November 2, 2025	July 28, 2025	in/noc25_cs159/preview
	noc25-cs159	Techniques						https://onlinecourses.nptel.ac.
18		Introduction to Large Language Models	12 Mooks	July 21, 2025	October 10, 2025	November 2, 2025	July 28, 2025	in/noc25_cs161/preview
10	noc25-cs161	(LLMs)	12 Weeks	July 21, 2020	000000110,2020	1		

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M.Vergenal Head, MT

PROFESSOR & HEAD epartment of Information Technology haitanya Bharathi Institute of Technology (A) failanya Bharathi Institute of Technology (A) failanya Bharathi Constitute of Technology (A)