

Department of Information Technology

NPTEL Courses Identified for Additional Minor Engineering (Information Security) Degree for the period of Jan - Apr, 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.

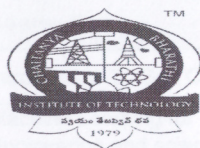
The Tentative List of NPTEL Courses for Additional Minor Engineering(Information Security) Degree Approved by IT Department are given below. A.Y: 2024 -25

S.No	Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
1	noc25-cs02	Advanced Computer Networks	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs02/preview
2	noc25-cs08	Blockchain and its Applications	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs08/preview
3	noc25-cs11	Cloud Computing	12 Weeks	January 20, 2025	April 11, 2025	May 3, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs11/preview
4	noc25-cs12	Cloud Computing and Distributed Systems	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs12/preview
5	noc25-cs15	Computer Networks And Internet Protocol	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs15/preview
6	noc25-cs16	Cryptography and Network Security	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs16/preview
7	noc25-cs24	Design and Engineering of Computer Systems	8 Weeks	January 20, 2025	March 14, 2025	March 23, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs24/preview
8	noc25-cs31	Foundations of Cryptography	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs31/preview
9	noc25-cs32	Foundations of Cyber Physical Systems	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs32/preview
10	noc25-cs39	Information Security - 5 - Secure Systems Engineering	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs39/preview
11	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	https://onlinecourses.nptel.ac.in/noc25_cs43/preview
12	noc25-cs61	Quantum Algorithms and Cryptography	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs61/preview
13	noc25-cs63	Secure Computation: Part I	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs63/preview
14	noc25-cs68	Systems and Usable Security	4 Weeks	January 20, 2025	February 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs68/preview
15	noc25-cs74	Wireless Ad Hoc and Sensor Networks	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs74/preview
16	noc25-cs78	Real Time Operating System	4 Weeks	February 17, 2025	March 14, 2025	April 26, 2025	February 17, 2025	https://onlinecourses.nptel.ac.in/noc25_cs78/preview
17	noc25-cs79	Privacy and Security in Online Social Media	12 weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs79/preview

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M. Veeramani
20/1/2025
Head, I.T.

**Department of IT
CBIT, Hyderabad**



**CHAITANYA BHARATHI
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COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

46
years

Department of Information Technology

NPTEL Courses Identified for Additional Minor Engineering (Artificial Intelligence) Degree for the period Jan - Apr, 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.

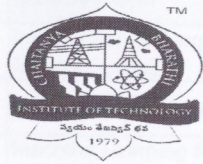
A.Y: 2024 -25

S.No	Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
1	noc25-cs06	Algorithms in Computational Biology and Sequence Analysis	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs06/preview
2	noc25-cs07	Artificial Intelligence: Knowledge Representation And Reasoning	12 Weeks	January 20, 2025	April 11, 2025	May 3, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs07/preview
3	noc25-cs09	Business Intelligence & Analytics	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs09/preview
4	noc25-cs17	Data Analytics with Python	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs17/preview
5	noc25-cs20	Data Science for Engineers	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs20/preview
6	noc25-cs21	Deep Learning - IIT Ropar	12 Weeks	January 20, 2025	April 11, 2025	May 3, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs21/preview
7	noc25-cs22	Deep Learning for Natural Language Processing	12 weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs22/preview
8	noc25-cs37	GPU Architectures and Programming	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs37/preview
9	noc25-cs45	Introduction to Large Language Models (LLMs)	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs45/preview
10	noc25-cs46	Introduction to Machine Learning	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs46/preview

S.No	Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
11	noc25-cs48	Introduction To Soft Computing	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs48/preview
12	noc25-cs49	Machine Learning for Engineering and science applications	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs49/preview
13	noc25-cs50	Machine Learning, ML	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs50/preview
14	noc25-cs51	Natural Language Processing	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs51/preview
15	noc25-cs55	Practical High-Performance Computing	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs55/preview
16	noc25-cs60	Python for Data Science	4 Weeks	January 20, 2025	February 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs60/preview
17	noc25-cs62	Reinforcement Learning	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs62/preview
18	noc25-cs75	Foundation of Cloud IoT Edge ML	8 Weeks	February 17, 2025	April 11, 2025	April 26, 2025	February 17, 2025	https://onlinecourses.nptel.ac.in/noc25_cs75/preview

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Department of Information Technology

NPTEL Courses Identified for Additional Minor Engineering(Data Science) Degree for the period of Jan - Apr, 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: 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-cs07	Artificial Intelligence: Knowledge Representation And Reasoning	12 Weeks	January 20, 2025	April 11, 2025	May 3, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs07/preview
2	noc25-cs09	Business Intelligence & Analytics	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs09/preview
3	noc25-cs14	Computational Number Theory and Algebra	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs14/preview
4	noc25-cs17	Data Analytics with Python	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs17/preview
5	noc25-cs18	Data Base Management System	8 Weeks	January 20, 2025	March 14, 2025	March 23, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs18/preview
6	noc25-cs19	Data Mining	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs19/preview
7	noc25-cs20	Data Science for Engineers	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs20/preview
8	noc25-cs21	Deep Learning - IIT Ropar	12 Weeks	January 20, 2025	April 11, 2025	May 3, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs21/preview
9	noc25-cs22	Deep Learning for Natural Language Processing	12 weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs22/preview
10	noc25-cs26	Discrete Mathematics	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs26/preview
11	noc25-cs37	GPU Architectures and Programming	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs37/preview
12	noc25-cs44	Introduction To Internet Of Things	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs44/preview

S.No	Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
13	noc25-cs45	Introduction to Large Language Models (LLMs)	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs45/preview
14	noc25-cs46	Introduction to Machine Learning	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs46/preview
15	noc25-cs49	Machine Learning for Engineering and science applications	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs49/preview
16	noc25-cs50	Machine Learning, ML	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs50/preview
17	noc25-cs51	Natural Language Processing	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs51/preview
18	noc25-cs60	Python for Data Science	4 Weeks	January 20, 2025	February 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs60/preview
19	noc25-cs62	Reinforcement Learning	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs62/preview
20	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	https://onlinecourses.nptel.ac.in/noc25_cs71/preview

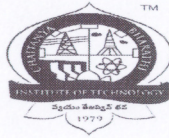
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M. Veeramani
Head, I.T.

Department of
CBIT, Hyderabad

The following list of Courses for Additional Minor / Scientific Degree Approved by IT Department are given below

S.No	Course ID	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	Click here to Join the course
1	noc25-cs27	Business Intelligence: Reports, Dashboards & Analytics	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs27/preview
2	noc25-cs28	Business Intelligence: A Analytics	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs28/preview
3	noc25-cs34	Introduction to ML and Analytics	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs34/preview
4	noc25-cs37	Data Analytics with Tableau	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs37/preview
5	noc25-cs38	Logic Data Management System	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs38/preview
6	noc25-cs39	Data Mining	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs39/preview
7	noc25-cs40	Data Science for Engineers	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs40/preview
8	noc25-cs41	Deep Learning - IT Focus	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs41/preview
9	noc25-cs42	Deep Learning for Natural Language Processing	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs42/preview
10	noc25-cs43	Course Mathematics	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs43/preview
11	noc25-cs44	GPU Architecture and Programming	8 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs44/preview
12	noc25-cs45	Introduction to Large Language Models (LLMs)	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs45/preview



Department of Information Technology

NPTEL Courses Identified for Additional Minor Engineering (Augmented Reality & Virtual Reality) Degree for the period of Jan - Apr, 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: 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	https://onlinecourses.nptel.ac.in/noc25_cs03/preview
2	noc25-cs04	Affective Computing	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs04/preview
3	noc25-cs14	Computational Number Theory and Algebra	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs14/preview
4	noc25-cs21	Deep Learning - IIT Ropar	12 Weeks	January 20, 2025	April 11, 2025	May 3, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs21/preview
5	noc25-cs22	Deep Learning for Natural Language Processing	12 weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs22/preview
6	noc25-cs23	Design and analysis of algorithms	8 Weeks	January 20, 2025	March 14, 2025	March 22, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs23/preview
7	noc25-cs35	Games and Information	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs35/preview
8	noc25-cs37	GPU Architectures and Programming	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs37/preview
9	noc25-cs38	Human Computer Interaction (In English)	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs38/preview
10	noc25-cs46	Introduction to Machine Learning	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs46/preview
11	noc25-cs51	Natural Language Processing	12 Weeks	January 20, 2025	April 11, 2025	April 26, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs51/preview
12	noc25-cs54	Parallel Computer Architecture	12 Weeks	January 20, 2025	April 11, 2025	April 27, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs54/preview
13	noc25-cs62	Reinforcement Learning	12 Weeks	January 20, 2025	April 11, 2025	May 4, 2025	January 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs62/preview

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