

Proposed List of MOOCs (NPTEL Jan-April-2023 time line) for B.E. Degree Honors

Table 1. List of certifiable courses approved for earning the extra credits under type Disciplinary-Computer Science and Engineering

Sl. No.	Course Code	Course Title	Course Area	Name of the Subject and Subject matter Expert's name	Course Duration in weeks	Credits	Name of the Board of Studies	Disciplinary Courses	Course Session	Start Date	End date	Exam Date	Enrollment End Date
	noc23-cs14	AI:Constraint Satisfaction	Computer Science and Engineering	AI:Constraint Satisfaction-Prof. Deepak Khemani	8 Weeks	2	CSE	CSE	Jan-July-2023	January 23, 2023	March 17, 2023	March 26, 2023	Jan 30,2023, 5 PM
	noc23-cs19	Social Networks	Computer Science and Engineering	Social Networks-Prof. Sudarshan Iyengar	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs21	Python for Data Science	Computer Science and Engineering	Python for Data Science-Prof. Ragunathan Rengasamy	4 Weeks	1	CSE	CSE	Jan-July-2023	January 23, 2023	February 17, 2023	March 26, 2023	January 30, 2023
	noc23-cs23	Reinforcement Learning	Computer Science and Engineering	Reinforcement Learning-Prof. Balaraman Ravindran	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
	noc23-cs25	User-centric Computing for Human-Computer Interaction	Computer Science and Engineering	User-centric Computing for Human-Computer Interaction-Prof. Samit Bhattacharya	8 Weeks	2	CSE	CSE	Jan-July-2023	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
	noc23-cs26	Advanced Graph Theory	Computer Science and Engineering	Advanced Graph Theory-Prof. Rajiv Misra	8 Weeks	2	CSE	CSE	Jan-July-2023	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
	noc23-cs27	Cloud Computing and Distributed Systems	Computer Science and Engineering	Cloud Computing and Distributed Systems-Prof. Hajiv Misra	8 Weeks	2	CSE	CSE	Jan-July-2023	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
	noc23-cs28	Introduction to parallel programming with OpenMP and MPI	Computer Science and Engineering	Introduction to parallel programming with OpenMP and MPI-Prof. Yogish Sabharwal	8 Weeks	2	CSE	CSE	Jan-July-2023	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
	noc23-cs30	Getting Started with Competitive Programming	Computer Science and Engineering	Getting Started with Competitive Programming-Prof. Neelidhara Misra	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs32	Systems and Usable Security	Computer Science and Engineering	Systems and Usable Security- Prof. Neminath Hubballi	4 Weeks	1	CSE	CSE	Jan-July-2023	January 23, 2023	February 17, 2023	March 26, 2023	January 30, 2023
	noc23-cs34	Secure Computation: Part I	Computer Science and Engineering	Secure Computation: Part I - Prof. Ashish Choudhury	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs36	Affective Computing	Computer Science and Engineering	Affective Computing -Prof. Jainendra Shukla, Prof. Abhinav Dhal	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs40	Introduction To Soft Computing	Computer Science and Engineering	Introduction To Soft Computing - Prof. Debasis Samanta	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs44	Ethical Hacking	Computer Science and Engineering	Ethical Hacking-Prof. Indranil Sengupta	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
	noc23-cs45	Natural Language Processing	Computer Science and Engineering	Natural Language Processing - Prof. Pawan Goyal	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs46	Object Oriented System Development Using UML, Java And	Computer Science and Engineering	Object Oriented System Development Using UML, Java And Patterns - Prof. Rajib Mall	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs47	Blockchain and its Applications	Computer Science and Engineering	Blockchain and its Applications - Prof. Sandip Chakraborty, Prof. Shamik Sural	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs52	Introduction To Industry 4.0 And Industrial Internet Of Things	Computer Science and Engineering	Introduction To Industry 4.0 And Industrial Internet Of Things - Prof. Sudip Misra	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs59	Hardware Security	Computer Science and Engineering	Hardware Security - Prof. Debdeep Mukhopadhyay	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs60	Discrete Structures	Computer Science and Engineering	Discrete Structures - Prof. Dipanwita Roy Chowdhury	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs61	GPU Architectures And Programming	Computer Science and Engineering	GPU Architectures And Programming - Prof. Soumyajit Dey	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs62	Foundations of Cyber Physical Systems	Computer Science and Engineering	Foundations of Cyber Physical Systems - Prof. Soumyajit Dey	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs65	Foundation of Cloud IoT Edge ML	Computer Science and Engineering	Foundation of Cloud IoT Edge ML	8 Weeks	2	CSE	CSE	Jan-July-2023	February 20, 2023	April 14, 2023	April 29, 2023	February 20, 2023
	noc23-cs04	Quantum Algorithms and Cryptography	Computer Science and Engineering	Quantum Algorithms and Cryptography - Prof. Shweta Agrawal	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs10	Information Security - 5 - Secure Systems Engineering	Computer Science and Engineering	Information Security - 5 - Secure Systems Engineering - Prof. Chester Robeiro	8 Weeks	2	CSE	CSE	Jan-July-2023	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
	noc23-cs12	Model Checking	Computer Science and Engineering	Model Checking - Prof. Srivathsan.B	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs13	Privacy and Security in Online Social Media	Computer Science and Engineering	Privacy and Security in Online Social Media	12 Weeks	3	CSE	CSE	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023

Table 1. List of certifiable courses approved for earning the extra credits under type Interdisciplinary

Sl No	Course Code	Course Title	Course Area	Name of the Subject and Subject matter Expert's name	Course Duration in weeks	Credits	Name of the Board of Studies	Disciplinary Courses	Course Session	Start Date	End date	Exam Date	Enrollment End Date
	noc23-de04	Understanding Incubation and Entrepreneurship	Design Engineering	Understanding Incubation and Entrepreneurship - Prof. B. K. Chakravarthy	12 Weeks	3	CSE	Interdisciplinary	Jan-July-2023	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-ee53	Deep Learning For Visual Computing	Electrical Engineering	Deep Learning For Visual Computing-Prof. Debdeep Sheet	12 Weeks	3	CSE	Interdisciplinary	Jan-July-2023	January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023