

Proposed List of MOOCs (NPTEL July-December -2023 time line) for PG programs of scheme 2022

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

Program		Computer Science & Engineering Stream									
Sl. No.	Course Code	Course Title	Course Area	Name of the Subject and Subject matter Expert's name	Course Duration in weeks	Credits	Course Session	Start Date	End date	Exam Date	Enrollment End Date
1	noc23-cs100	Reinforcement Learning	Computer Science and Engineering	Prof. Balaraman Ravindran	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 29, 2023	July 24, 2023
2	noc23-cs101	Introduction To Operating Systems	Computer Science and Engineering	Prof. Chester Rebeiro	8 Weeks	2	July-December 2023	July 24, 2023	September 15, 2023	September 24, 2023	July 24, 2023
3	noc23-cs102	Parameterized Algorithms	Computer Science and Engineering	Prof. Neeldhara Misra Prof. Saket Saurabh	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
4	noc23-cs103	Getting Started With Competitive Programming	Computer Science and Engineering	Prof. Neeldhara Misra	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
5	noc23-cs104	Applied Accelerated Artificial Intelligence	Computer Science and Engineering	Prof. Satyadhyan Chickerur Prof. Bharatkumar Sharma	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
6	noc23-cs106	Social Network Analysis	Computer Science and Engineering	Prof. Tanmoy Chakraborty	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
7	noc23-cs107	Social Networks	Computer Science and Engineering	Prof. Sudarshan Iyengar Prof. Yayati Gupta	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
8	noc23-cs108	The Joy Of Computing Using Python	Computer Science and Engineering	Prof. Sudarshan Iyengar	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
9	noc23-cs109	Discrete Mathematics	Computer Science and Engineering	Prof. Sudarshan Iyengar Prof. Anil Shukla	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
10	noc23-cs110	Deep Learning - IIT Ropar	Computer Science and Engineering	Prof. Sudarshan Iyengar Prof. Padmavati	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
11	noc23-cs111	Computational Complexity	Computer Science and Engineering	Prof. Subrahmanyam Kalyanasundaram	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 29, 2023	July 24, 2023
12	noc23-cs112	Big Data Computing	Computer Science and Engineering	Prof. Rajiv Misra	8 Weeks	2	July-December 2023	August 21, 2023	Oktober 13, 2023	Oktober 28, 2023	August 21, 2023
13	noc23-cs113	Multi-Core Computer Architecture	Computer Science and Engineering	Prof. John Jose	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
14	noc23-cs114	C-Based VLSI Design	Computer Science and Engineering	Prof. Chandan Karfa	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
15	noc23-cs115	Computer Graphics	Computer Science and Engineering	Prof. Samit Bhattacharya	8 Weeks	2	July-December 2023	July 24, 2023	September 15, 2023	September 24, 2023	July 24, 2023
16	noc23-cs116	Design & Implementation Of Human-Computer Interfaces	Computer Science and Engineering	Prof. Samit Bhattacharya	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
17	noc23-cs117	Introduction To Game Theory And Mechanism Design	Computer Science and Engineering	Prof. Swaprava Nath	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
18	noc23-cs119	Secure Computation: Part II	Computer Science and Engineering	Prof Ashish Choudhary	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
19	noc23-cs120	Discrete Mathematics - IITB	Computer Science and Engineering	Prof Ashish Choudhary	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 29, 2023	July 24, 2023
20	noc23-cs121	Problem Solving Through Programming In C	Computer Science and Engineering	Prof. Anupam Basu	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
21	noc23-cs122	Software Engineering	Computer Science and Engineering	Prof. Rajib Mall	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 29, 2023	July 24, 2023
22	noc23-cs123	Operating System Fundamentals	Computer Science and Engineering	Prof. Santanu Chattopadhyay	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 29, 2023	July 24, 2023
23	noc23-cs67	Computer Architecture	Computer Science and Engineering	Prof. Smruti Ranjan Sarangi	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 29, 2023	July 24, 2023
24	noc23-cs68	Advanced Distributed Systems	Computer Science and Engineering	Prof. Smruti Ranjan Sarangi	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
25	noc23-cs69	Privacy And Security In Online Social Media	Computer Science and Engineering	Prof. Ponnurangam Kumaraguru	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
26	noc23-cs70	Theory Of Computation	Computer Science and Engineering	Prof. Raghunath Tewari	8 Weeks	2	July-December 2023	July 24, 2023	September 15, 2023	September 24, 2023	July 24, 2023
27	noc23-cs71	Modern Algebra	Computer Science and Engineering	Prof. Manindra Agrawal	8 Weeks	2	July-December 2023	August 21, 2023	Oktober 13, 2023	Oktober 28, 2023	August 21, 2023
28	noc23-cs72	Distributed Systems	Computer Science and Engineering	Prof. Rajiv Misra	8 Weeks	2	July-December 2023	July 24, 2023	September 15, 2023	September 24, 2023	July 24, 2023
29	noc23-cs74	Programming In Java	Computer Science and Engineering	Prof. Debasis Samanta	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 29, 2023	July 24, 2023
30	noc23-cs75	Ethical Hacking	Computer Science and Engineering	Prof. Indranil Sengupta	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 29, 2023	July 24, 2023
31	noc23-cs76	Hardware Modeling Using Verilog	Computer Science and Engineering	Prof. Indranil Sengupta	8 Weeks	2	July-December 2023	July 24, 2023	September 15, 2023	September 24, 2023	July 24, 2023
32	noc23-cs77	Computer Vision	Computer Science and Engineering	Prof. Jayanta Mukhopadhyay	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
33	noc23-cs78	Programming In Modern C++	Computer Science and Engineering	Prof. Partha Pratim Das	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
34	noc23-cs79	Data Base Management System	Computer Science and Engineering	Prof. Partha Pratim Das Prof. Samiran Chattopadhyay	8 Weeks	2	July-December 2023	July 24, 2023	September 15, 2023	September 24, 2023	July 24, 2023
35	noc23-cs80	Natural Language Processing	Computer Science and Engineering	Prof. Pawan Goyal	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
36	noc23-cs82	Introduction To Industry 4.0 And Industrial Internet Of Things	Computer Science and Engineering	Prof. Sudip Misra	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
37	noc23-cs83	Introduction To Internet Of Things	Computer Science and Engineering	Prof. Sudip Misra	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 29, 2023	July 24, 2023
38	noc23-cs84	Statistical Learning For Reliability Analysis	Computer Science and Engineering	Prof. Monalisa Sarma	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 28, 2023	July 24, 2023
39	noc23-cs85	Data Structure And Algorithms Using Java	Computer Science and Engineering	Prof. Debasis Samanta	12 Weeks	3	July-December 2023	July 24, 2023	Oktober 13, 2023	Oktober 29, 2023	July 24, 2023
40	noc23-cs86	Machine Learning For Earth System Sciences	Computer Science and Engineering	Prof. Adway Mitra	8 Weeks	2	July-December 2023	July 24, 2023	September 15, 2023	September 24, 2023	July 24, 2023
41	noc23-cs87	Introduction To Machine Learning - IITKGP	Computer Science and Engineering	Prof. Sudeshna Sarkar	8 Weeks	2	July-December 2023	July 24, 2023	September 15, 2023	September 24, 2023	July 24, 2023

Sl. No.	Course Code	Course Title	Course Area	Name of the Subject and Subject matter Expert's name	Course Duration in weeks	Credits	Course Session	Start Date	End date	Exam Date	Enrollment End Date
42	noc23-cs88	Introduction To Algorithms And Analysis	Computer Science and Engineering	Prof. Sourav Mukhopadhyay	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 24, 2023
43	noc23-cs89	Cloud Computing	Computer Science and Engineering	Prof. Soumya Kanti Ghosh	8 Weeks	2	July-December 2023	Juli 24, 2023	September 15, 2023	September 24, 2023	Juli 24, 2023
44	noc23-cs90	Google Cloud Computing Foundations	Computer Science and Engineering	Prof. Soumya Kanti Ghosh	8 Weeks	2	July-December 2023	August 21, 2023	Oktober 13, 2023	Oktober 29, 2023	August 21, 2023
45	noc23-cs91	Software Testing (IITB)	Computer Science and Engineering	Prof. Meenakshi D'Souza	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 24, 2023
46	noc23-cs92	Artificial Intelligence : Search Methods For Problem Solving	Computer Science and Engineering	Prof. Deepak Khemani	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 24, 2023
47	noc23-cs94	Introduction To Haskell Programming	Computer Science and Engineering	Prof. S. P Suresh	8 Weeks	2	July-December 2023	Juli 24, 2023	September 15, 2023	September 24, 2023	Juli 24, 2023
48	noc23-cs95	Programming, Data Structures And Algorithms Using Python	Computer Science and Engineering	Prof. Madhavan Mukund	8 Weeks	2	July-December 2023	Juli 24, 2023	September 15, 2023	September 24, 2023	Juli 24, 2023
49	noc23-cs96	Design And Analysis Of Algorithms	Computer Science and Engineering	Prof. Madhavan Mukund	8 Weeks	2	July-December 2023	Juli 24, 2023	September 15, 2023	September 24, 2023	Juli 24, 2023
50	noc23-cs97	Data Science For Engineers	Computer Science and Engineering	Prof. Ragumathan Rengasamy Prof. Shankar Narasimhan	8 Weeks	2	July-December 2023	Juli 24, 2023	September 15, 2023	September 24, 2023	Juli 24, 2023
51	noc23-cs98	Introduction To Machine Learning	Computer Science and Engineering	Prof. Balaraman Ravindran	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 24, 2023
52	noc23-cs126	Deep Learning for Computer Vision	Computer Science and Engineering	Prof. Vineeth N Balasubramanian	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 24, 2023
53	noc23-cs127	Cyber Security and Privacy	Computer Science and Engineering	Prof. Saji K Mathew	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 24, 2023

Table 2. List of certifiable courses approved for earning the extra credits under type Interdisciplinary

Program		Computer Science & Engineering Stream									
Sl. No.	Course Code	Course Title	Course Area	Name of the Subject and Subject matter Expert's name	Course Duration in weeks	Credits	Course Session	Start Date	End date	Exam Date	Enrollment End Date
1	noc23-ee106	Analog Electronic Circuit	Electrical and Electronics Engineering	Prof. Shouribrata Chatterjee	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 31, 2023
2	noc23-ee110	Electronic Systems For Cancer Diagnosis	Electrical and Electronics Engineering	Prof. Hardik Jeetendra Pandya	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 31, 2023
3	noc23-ee118	Digital Image Processing	Electrical and Electronics Engineering	Prof. Prabir Kumar Biswas	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 31, 2023
4	noc23-ee119	Pattern Recognition And Application	Electrical and Electronics Engineering	Prof. Prabir Kumar Biswas	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 31, 2023
5	noc23-ee131	Deep Learning	Electrical and Electronics Engineering	Prof. Prabir Kumar Biswas	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 31, 2023
6	noc23-ee79	Introduction To Wireless And Cellular Communications	Electrical and Electronics Engineering	Prof. David Koilpillai	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 31, 2023
7	noc23-ee98	Digital Switching - I	Electrical and Electronics Engineering	Prof. Y.N.Singh	8 Weeks	2	July-December 2023	Juli 24, 2023	September 15, 2023	September 24, 2023	Juli 31, 2023
8	noc23-ee99	Applied Optimization For Wireless, Machine Learning, Big Data	Electrical and Electronics Engineering	Prof. Aditya K. Jagannatham	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 31, 2023
9	noc23-mg118	Advanced Business Decision Support Systems	Management	Prof. Deepu Philip / Prof. Amandeep Singh Oberoi / Prof. Prabal Pratap Singh	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 31, 2023
10	noc23-mg125	Yoga And Positive Psychology For Managing Career And Life	Management	Prof. Ashish Pandey	8 Weeks	2	July-December 2023	August 21, 2023	Oktober 13, 2023	Oktober 29, 2023	August 21, 2023
11	noc23-mg68	Intellectual Property Rights And Competition Law	Management	Prof. K. D. Raju Prof. Niharika Sahoo Bhattacharya	8 Weeks	2	July-December 2023	August 21, 2023	Oktober 13, 2023	Oktober 29, 2023	August 21, 2023
12	noc23-mg71	Operations And Supply Chain Management	Management	Prof. G. Srinivasan	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 31, 2023
13	noc23-mg73	Organizational Behaviour	Management	Prof. M. P. Ganesh	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 31, 2023
14	noc23-mg74	Entrepreneurship	Management	Prof. C Bhaktavatsala Rao	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 31, 2023
15	noc23-mg80	Financial Accounting	Management	Prof. Varadraj Bapat	8 Weeks	2	July-December 2023	Juli 24, 2023	September 15, 2023	September 24, 2023	Juli 31, 2023
16	noc23-mg90	Organizational Behaviour - II	Management	Prof. Susmita Mukhopadhyay Prof. Sangeeta Sahney Prof. S. Srinivasan	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 31, 2023
17	noc23-mg97	Ethics In Engineering Practice	Management	Prof. Susmita Mukhopadhyay	8 Weeks	2	July-December 2023	August 21, 2023	Oktober 13, 2023	Oktober 28, 2023	August 21, 2023
18	noc23-mg99	Patent Search For Engineers And Lawyers	Management	Prof. M Padmavati Prof. Shreya Matilal	8 Weeks	2	July-December 2023	August 21, 2023	Oktober 13, 2023	Oktober 28, 2023	August 21, 2023
19	noc23-de12	Introduction To Robotics	Design Engineering	Prof. Asokan T Prof. Balaraman Ravindran Prof. Krishna Vasudevan	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 31, 2023
20	noc23-de17	Geographic Information System	Design Engineering	Prof. Bharath H Aithal	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 31, 2023
21	noc23-de18	Innovation By Design	Design Engineering	Prof. B. K. Chakravarthy	4 Weeks		July-December 2023	Juli 24, 2023	August 18, 2023	September 24, 2023	Juli 31, 2023
22	noc23-ec02	Economics Of Banking And Finance Markets	Economics	Prof. Sukumar Vellakkal	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 31, 2023
23	noc23-ec03	Economics Of Innovation	Economics	Prof. Ruchi Sharma	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 31, 2023
24	noc23-ec04	Environmental & Resource Economics	Economics	Prof. Sabuj Kumar Mandal	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 31, 2023
25	noc23-ec05	Spatial Statistics And Spatial Econometrics	Economics	Prof. Gaurav Arora	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 28, 2023	Juli 31, 2023
26	noc23-ec06	Principles Of Economics	Economics	Prof. Sabuj Kumar Mandal	12 Weeks	3	July-December 2023	Juli 24, 2023	Oktober 13, 2023	Oktober 29, 2023	Juli 31, 2023

