Proposed List of MOOCs (NPTEL July-December -2023 time line) for B.E. Degree Honors   **BOS(EIE/BM/ML)**

Table 1. List of certifiable courses approved for earning the extra credits under type **Disciplinary (EI/BM/ML)**

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-bt38	Fundamentals Of Micro And Nanofabrication	Electrical, Electronics and Communications Engineering	Prof Sushobhan Avasti Prof. Shankar Selvaraja	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/29/2023	7/31/2023
2	noc23-cs103	Getting Started With Competitive Programming	Computer Science and Engineering	Prof. Neeldhara Misra	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
3	noc23-cs104	Applied Accelerated Artificial Intelligence	Computer Science and Engineering	Prof. Satyajit Das Prof. Satyadhyan Chickerur Prof. Bharatkumar Sharma Prof. Adesuyi Tosin	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
4	noc23-cs106	Social Network Analysis	Computer Science and Engineering	Prof. Tanmoy Chakraborty	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
5	noc23-cs110	Deep Learning - IIT Ropar	Computer Science and Engineering	Prof. Sudarshan IyengarProf. Padmavati	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
6	noc23-cs116	Design & Implementation Of Human-Computer Interfaces	Computer Science and Engineering	Prof. Samit Bhattacharya	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
7	noc23-cs75	Ethical Hacking	Computer Science and Engineering	Prof. Indranil Sengupta	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/29/2023	7/31/2023
8	noc23-cs78	Programming In Modern C++	Computer Science and Engineering	Prof. Partha Pratim Das	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
9	noc23-cs81	Software Testing (IITKGP)	Computer Science and Engineering	Prof. Rajib Mall	4 Weeks	1	July-December 2023	7/24/2023	8/18/2023	9/24/2023	7/31/2023
10	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	7/24/2023	10/13/2023	10/28/2023	7/31/2023
11	noc23-cs85	Data Structure And Algorithms Using Java	Computer Science and Engineering	Prof. Debasis Samanta	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/29/2023	7/31/2023
12	noc23-cs87	Introduction To Machine Learning - IITKGP	Computer Science and Engineering	Prof. Sudeshna Sarkar	8 Weeks	2	July-December 2023	7/24/2023	9/15/2023	9/24/2023	7/31/2023
13	noc23-cs88	Introduction To Algorithms And Analysis	Computer Science and Engineering	Prof. Sourav Mukhopadhyay	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
14	noc23-cs90	Google Cloud Computing Foundations	Computer Science and Engineering	Prof. Soumya Kanti Ghosh	8 Weeks	2	July-December 2023	8/21/2023	10/13/2023	10/29/2023	8/21/2023
15	noc23-cs92	Artificial Intelligence : Search Methods For Problem Solving	Computer Science and Engineering	Prof. Deepak Khemani	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
16	noc23-cs98	Introduction To Machine Learning	Computer Science and Engineering	Prof. Balaraman Ravindran	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/29/2023	7/31/2023
17	noc23-cs99	Python For Data Science	Computer Science and Engineering	Prof. Ragunathan Rengasamy	4 Weeks	1	July-December 2023	7/24/2023	8/18/2023	9/24/2023	7/31/2023
18	noc23-ee131	Deep Learning	Electrical and Electronics Engineering	Prof. Prabir Kumar Biswas	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/29/2023	7/31/2023
19	noc23-ee132	Discrete Time Signal Processing	Electrical and Electronics Engineering	Prof. Mrityunjoy Chakraborty	8 Weeks	2	July-December 2023	7/24/2023	9/15/2023	9/24/2023	7/31/2023
20	noc23-ee136	Simulation Of Communication Systems Using Matlab	Electrical and Electronics Engineering	Prof. Ribhu	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/29/2023	7/31/2023
21	noc23-ee80	Fiber Optic Communication Technology	Electrical and Electronics Engineering	Prof. Deepa Venkitesh	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
22	noc23-ee93	Real-Time Digital Signal Processing	Electrical and Electronics Engineering	Prof Rathna Gn	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
23	noc23-ee99	Applied Optimization For Wireless, Machine Learning, Big Data	Electrical and Electronics Engineering	Prof. Aditya K. Jagannatham	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023

Table 2. List of certifiable courses approved for earning the extra credits under type **INTER Disciplinary**

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-ge32	Food Packaging Technology	Multidisciplinary	Prof. Maya Raman Prof. Jenny Ann John	8 Weeks	2	July-December 2023	8/21/2023	10/13/2023	10/28/2023	8/21/2023
2	noc23-ge35	Numerical Methods For Engineers	Multidisciplinary	Prof. Niket Kaisare	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
3	noc23-ge36	Introduction To Research **New title: Research Methodology**	Multidisciplinary	Prof. Edamana Prasad Prof. Prathap Haridoss	8 Weeks	2	July-December 2023	8/21/2023	10/13/2023	10/28/2023	8/21/2023
4	noc23-ge41	Solar Energy Engineering And Technology	Multidisciplinary	Prof. Pankaj Kalita	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
5	noc23-ge42	Learning Analytics Tools	Multidisciplinary	Prof. Ramkumar Rajendran	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/28/2023	7/31/2023
6	noc23-ge47	Sustainable Power Generation Systems	Multidisciplinary, Energy, Mechanical Engineering, Electrical Engineering and Chemical Engineering	Prof. Pankaj Kalita	12 Weeks	3	July-December 2023	7/24/2023	10/13/2023	10/29/2023	7/31/2023