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

Table 1. List of certifiable courses approved for earning the extra credits under type **Disciplinary** (CIVIL ENGINEERING)

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-ce100	Finite Element Method And Computational Structural	Civil Engineering	Prof. Manish Shrikhande	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
2	noc23-ce101	Geotechnical Earthquake Engineering	Civil Engineering	Prof. Kousik Deb	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
3	noc23-ce57	Mechanics Of Materials	Civil Engineering	Prof. Saravanan.U	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
4	noc23-ce59	Project Planning & Control	Civil Engineering	Prof. Koshy Varghese	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
5	noc23-ce61	Admixtures And Special Concretes	Civil Engineering	Prof. Manu Santhanam	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
6	noc23-ce62	Principles Of Construction Management	Civil Engineering	Prof. Sudhir Misra	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
7	noc23-ce66	Municipal Solid Waste Management	Civil Engineering	Prof. Ajay Kalamdhad	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
8	noc23-ce67	Optimization Methods For Civil Engineering	Civil Engineering	Prof. Rajib Kumar Bhattacharjya	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
9	noc23-ce73	Dynamics Of Structures	Civil Engineering	Prof. Manish Kumar	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
10	noc23-ce75	Introduction to Multimodal Urban Transportation	Civil Engineering	Prof. Arkopal Kishore Goswami	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
11	noc23-ce81	Bridge Engineering	Civil Engineering	Prof. Piyali Sengupta	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
12	noc23-ce85	Wastewater Treatment And Recycling	Civil Engineering	Prof. Manoj Kumar Tiwari	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
13	noc23-ce87	Matrix Method Of Structural Analysis	Civil Engineering	Prof. Amit Shaw Prof Biswanath Banerjee	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
14	noc23-ce89	Integrated Waste Management For A Smart	Civil Engineering	Prof. Brajesh Kumar Dubey	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
15	noc23-ce90	Sustainable Engineering Concepts And Life Cycle	Civil Engineering	Prof. Brajesh Kumar Dubey	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
16	noc23-ce91	Sustainable Transportation Systems	Civil Engineering	Prof. Bhola Ram Gurjar	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
17	noc23-ce95	Geometric Design Of Highways	Civil Engineering	Prof. Rajat Rastogi	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
18	noc23-ce99	Pavement Materials (Under Pavement Engineering)	Civil Engineering	Prof. Nikhil Saboo	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023

Table . 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	Course Session	Start Date	End date	Exam Date	Enrollment End Date
1	noc23-ae08	Elements Of Mechanical Vibration	Aerospace / Mechanical Engineering	Prof. Ashish K Darpe	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023

No	Course ID	Course Name	Discipline	Instructor	Duration	Credits	Session				
2	noc23-ae17	Vibration And Structural Dynamics	Aerospace Engineering	Prof. Mira Mitra	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
3	noc23-ae18	Aerodynamic Design Of Axial Flow Compressors &	Aerospace Engineering	Prof. Chetankumar Sureshbhai Mistry	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
4	noc23-ae19	Smart Structures	Aerospace Engineering	Prof. Mohammed Rabius Sunny	12 weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
5	noc23-ag10	Micro Irrigation Engineering	Agriculture Engineering	Prof. Kamlesh Narayan Tiwari	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
6	noc23-ag15	Natural Resources Management	Agriculture Engineering	Prof. Sudip Mitra	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
7	noc23-ag17	Irrigation And Drainage	Agriculture Engineering	Prof. Damodhara Rao Mailapalli	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
8	noc23-ar08	Urban Utilities Planning : Water Supply, Sanitation	Architecture and Planning	Prof. Debapratim Pandit	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
9	noc23-ar10	Building Materials And Composites	Architecture and Planning	Prof. Sumana Gupta	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
10	noc23-ar12	Urban Landuse And Transportation Planning	Architecture and Planning	Prof. Debapratim Pandit	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
11	noc23-ar15	Introduction To Urban Planning	Architecture and Planning	Prof. Harshit Sosan Lakra	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
12	noc23-ar18	Housing Policy & Planning	Architecture and Planning	Prof. Uttam Kumar Roy	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
13	noc23-ar19	Urban governance and Development Management	Architecture and Planning	Prof. Uttam Kumar Roy	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
14	noc23-ar21	Principles And Applications Of Building Science	Architecture and Planning	Prof. E. Rajasekar	4 Weeks	1	July-October2023	July 24, 2023	August 18, 2023	September 24, 2023	July 31, 2023
15	noc23-ar25	Understanding And Reducing Ghg Emissions –	Architecture and Planning	Prof. Avlokita Agrawal	8 Weeks	2	July-October2023	August 21, 2023	October 13, 2023	October 29, 2023	August 21, 2023
16	noc23-ch75	Rheology and Processing of Paints, Plastic, and	Chemical engineering	Prof. Santanu Chattopadhyay	8 Weeks	2	July-October2023	July 24, 2023	October 13, 2023	September 24, 2023	July 31, 2023
17	noc23-ch76	Energy Conversion Technologies (Biomass And	Chemical Engineering/Multidisciplinary	Prof. Vaibhav V. Goud	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
18	noc23-cs108	The Joy Of Computing Using Python	Computer Science and Engineering	Prof. Sudarshan Iyengar	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
19	noc23-cs112	Big Data Computing	Computer Science and Engineering	Prof. Rajiv Misra	8 Weeks	2	July-October2023	August 21, 2023	October 13, 2023	October 28, 2023	August 21, 2023
20	noc23-cs121	Problem Solving Through Programming In C	Computer Science and Engineering	Prof. Anupam Basu	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
21	noc23-cs74	Programming In Java	Computer Science and Engineering	Prof. Debasis Samanta	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
22	noc23-cs79	Data Base Management System	Computer Science and Engineering	Prof. Partha Pratim Das Prof. Samiran Chattopadhyay	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
23	noc23-cs85	Data Structure And Algorithms Using Java	Computer Science and Engineering	Prof. Debasis Samanta	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
24	noc23-cs87	Introduction To Machine Learning - IITKGP	Computer Science and Engineering	Prof. Sudeshna Sarkar	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
25	noc23-cs90	Google Cloud Computing Foundations	Computer Science and Engineering	Prof. Soumya Kanti Ghosh	8 Weeks	2	July-October2023	August 21, 2023	October 13, 2023	October 29, 2023	August 21, 2023
26	noc23-cs95	Programming, Data Structures And Algorithms Using Python	Computer Science and Engineering	Prof. Madhavan Mukund	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
27	noc23-cs97	Data Science For Engineers	Computer Science and Engineering	Prof. Ragunathan Rengasamy Prof. Shankar Narasimhan	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023

#	Course ID	Course Name	Department	Instructor	Duration	Credits	Session	Date 1	Date 2	Date 3	Date 4
28	noc23-cs99	Python For Data Science	Computer Science and Engineering	Prof. Ragunathan Rengasamy	4 Weeks	1	July-October2023	July 24, 2023	August 18, 2023	September 24, 2023	July 31, 2023
29	noc23-de17	Geographic Information System	Design Engineering	Prof. Bharath H Aithal	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
30	noc23-de18	Innovation By Design	Design Engineering	Prof. B. K. Chakravarthy	4 Weeks	1	July-October2023	July 24, 2023	August 18, 2023	September 24, 2023	July 31, 2023
31	noc23-de19	Understanding Design	Design Engineering	Prof. Nina Sabnani	4 Weeks	1	July-October2023	July 24, 2023	August 18, 2023	September 24, 2023	July 31, 2023
32	noc23-ec04	Environmental & Resource Economics	Economics	Prof. Sabuj Kumar Mandal	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
33	noc23-ec06	Principles Of Economics	Economics	Prof. Sabuj Kumar Mandal	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
34	noc23-ee118	Digital Image Processing	Electrical and Electronics Engineering	Prof. Prabir Kumar Biswas	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
35	noc23-hs107	History Of English Language And Literature	Humanities and Social Sciences	Prof. Merin Simi Raj	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
36	noc23-hs115	Technical English For Engineers	Humanities and Social Sciences	Prof. Aysha Iqbal	8 Weeks	2	July-October2023	August 21, 2023	October 13, 2023	October 28, 2023	August 21, 2023
37	noc23-hs116	Developing Soft Skills And Personality	Humanities and Social Sciences	Prof. T Ravichandran	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
38	noc23-hs131	Science, Technology And Society	Humanities and Social Sciences	Prof. Sambit Mallick	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
39	noc23-hs133	Environment And Development	Humanities and Social Sciences	Prof. Ngamjahao Kipgen	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
40	noc23-hs138	Stress Management	Humanities and Social Sciences	Prof. Rajlakshmi Guha	4 Weeks	1	July-October2023	August 21, 2023	September 15, 2023	October 28, 2023	August 21, 2023
41	noc23-hs151	Public Speaking	Humanities and Social Sciences	Prof. Binod Mishra	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
42	noc23-hs80	Soft Skill Development	Humanities and Social Sciences	Prof. Priyadarshi Patnaik Prof. V. N. Giri Prof. D. Suar	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
43	noc23-hs92	Water, Society And Sustainability	Humanities and Social Sciences	Prof. Jenia Mukherjee	4 Weeks	1	July-October2023	August 21, 2023	September 15, 2023	October 29, 2023	August 21, 2023
44	noc23-me128	Structural Analysis Of Nanomaterials	Mechanical Engineering	Prof. Kaushik Pal	4 Weeks	1	July-October2023	July 24, 2023	August 18, 2023	September 24, 2023	July 31, 2023
45	noc23-mg74	Entrepreneurship	Management	Prof. C Bhaktavatsala Rao	12 Weeks	3	July-October2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
46	noc23-mg83	Organization Development And Change In 21st Century	Management	Prof. Ashish Pandey	8 Weeks	2	July-October2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
47	noc23-mg84	Business And Sustainable Development	Management	Prof. Trupti Mishra	4 Weeks	1	July-October2023	August 21, 2023	September 15, 2023	October 28, 2023	August 21, 2023
48	noc23-mg97	Ethics In Engineering Practice	Management	Prof. Susmita Mukhopadhyay	8 Weeks	2	July-October2023	August 21, 2023	October 13, 2023	October 28, 2023	August 21, 2023