

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 (EEE)**

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-ee-107	Design of Photovoltaic Systems	Electrical and Electronics Engineering	Design of Photovoltaic Systems, Prof. L Umanand	12 weeks		July-December 2023	July 24,2023	Oct 13, 2023	Oct 29,2023	July 31, 2023
2	noc23-ee-124	Smart Grid: Basics To Advanced Technologies	Electrical and Electronics Engineering	Smart Grid: Basics To Advanced TechnologiesProf. N.P. Padhy Prof. Premalata Jena	12 weeks		July-December 2023	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
3	noc23-ee83	Phase-Locked Loops	Electrical and Electronics Engineering	Phase-Locked Loops, Prof. Saurabh Saxena	12 Weeks		July-December 2023	July 24, 2023	October 13, 2023	October 28, 2023	August 18, 2023
4	noc23-ee92	Advances In Uhv Transmission And Distribution	Electrical and Electronics Engineering	Advances In Uhv Transmission And Distribution, Prof Subba Reddy	8 Weeks		July-December 2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
5	noc23-ee105	Transducers For Instrumentation	Electrical and Electronics Engineering	Transducers For Instrumentation, Ankur Gupta	12 Weeks		July-December 2027	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
6	noc23-ee108	Enclosure Design Of Electronics Equipment	Electrical and Electronics Engineering	Enclosure Design Of Electronics Equipment, Prof. N. V Chalapathi Rao	12 Weeks		July-December 2028	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
7	noc23-ee120	Microelectronics: Devices To Circuits	Electrical and Electronics Engineering	Microelectronics: Devices To Circuits, Prof. Sudeb Dasgupta	12 Weeks		July-December 2029	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
8	noc23-ee122	Advanced Linear Continuous Control Systems: Applications With Matlab Programming And Simulink	Electrical and Electronics Engineering	Advanced Linear Continuous Control Systems: Applications With Matlab Programming And Simulink, Prof. Yogesh Vijay Hote	8 Weeks		July-December 2030	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
9	noc23-ee123	Dc Microgrid And Control Systems	Electrical and Electronics Engineering	Dc Microgrid And Control Systems, Prof. Avik Bhattacharya	8 Weeks		July-December 2031	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
10	noc23-ee126	Electrical Distribution System Analysis	Electrical and Electronics Engineering	Electrical Distribution System Analysis, Prof. G. B. Kumbhar	8 Weeks		July-December 2032	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
11	noc23-ee134	Digital Control in Switched Mode Power Converters and FPGA-based	Electrical and Electronics Engineering	Digital Control in Switched Mode Power Converters and FPGA-based Prototyping, Prof. Santanu Kapat	12 Weeks		July-December 2033	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
12	noc23-ee135	VLSI Interconnects	Electrical and Electronics Engineering	VLSI Interconnects, Prof. Sarang Pendharker	8 Weeks		July-December 2034	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
13	noc23-ee140	Design Of Electric Motors	Electrical and Electronics Engineering	Design Of Electric Motors, Prof. Prathap Reddy	12 Weeks		July-December 2035	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
14	noc23-ee142	Analog VLSI Design	Electrical and Electronics Engineering	Analog VLSI Design, Prof. Imon Mondal	12 Weeks		July-December 2036	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
15	noc23-ee82	Introduction To Semiconductor Devices	Electrical and Electronics Engineering	Introduction To Semiconductor Devices	12 Weeks		July-December 2037	July 24, 2023	October 13, 2023	October 29, 2023	July 31, 2023
16	noc23-ee88	System Design Through Verilog	Electrical and Electronics Engineering	System Design Through Verilog, Prof. Shaik Rafi Ahamed	8 Weeks		July-December 2038	July 24, 2023	September 15, 2023		July 31, 2023
17	noc23-ee96	Applied Electromagnetics For Engineers	Electrical and Electronics Engineering	Applied Electromagnetics For Engineers, Prof. Pradeep Kumar K	12 Weeks		July-December 2039	July 24, 2023	October 13, 2023	October 29, 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-ch72	Basic Environmental Engineering And Pollution Abatement	Chemical Engineering	Basic Environmental Engineering And Pollution Abatement, Prof. P. Mondal	12 weeks		July-December 2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
2	noc23-cs116	Design & Implementation Of Human-Computer Interfaces	Computer Science and Engineering	Design & Implementation Of Human-Computer Interfaces, Prof. Samit Bhattacharya	12 weeks		July-December 2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
3	noc23-cs71	Modern Algebra	Computer Science and Engineering	Modern Algebra, Prof. Manindra Agrawal	8 weeks		July-December 2023	August 21, 2023	October 13, 2023	October 28, 2023	August 21, 2023
4	noc23-cs76	Hardware Modeling Using Verilog,	Computer Science and Engineering	Hardware Modeling Using Verilog, Prof. Indranil Sengupta	8 weeks		July-December 2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
5	noc23-cs82	And Industrial Internet Of Things	Computer Science and Engineering	Introduction To Industry 4.0 And Industrial Internet Of Things, Prof. Sudip Misra	12 weeks		July-December 2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
6	noc23-cs97	Data Science For Engineers,	Computer Science and Engineering	Data Science For Engineers, Prof. Ragunathan Rengasamy, Prof. Shankar Nara	8 weeks		July-December 2023	July 24, 2023	September 15, 2023	September 24, 2023	July 31, 2023
7	noc23-cs99	Python For Data Science.	Computer Science and Engineering	Python For Data Science. Prof. Ragunathan Rengasamy	4 weeks		July-December 2023	July 24, 2023	August 18, 2023	September 24, 2023	July 31, 2023
8	noc23-cs127	Cyber Security and Privacy	Computer Science and Engineering	Cyber Security and Privacy, Prof. Saji K Mathew	12 weeks		July-December 2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
	noc23-cs110	Deep Learning	Computer Science and Engineering	Deep Learning - "Prof. Sudarshan Iyengar, Prof. Padmavati"	12 weeks		July-December 2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
9	noc23-de10	Control Systems,	Design Engineering	Control Systems, Prof. C.S.Shankar Ram	12 weeks		July-December 2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
10	noc23-de14	System Design For Sustainability,	Design Engineering	System Design For Sustainability, Prof. Sharmistha Banerjee	12 weeks		July-December 2023	July 24, 2023	October 13, 2023	October 28, 2023	July 31, 2023
11	noc23-de18	Innovation By Design,	Design Engineering	Innovation By Design, Prof. B. K. Chakravarthy	4 weeks		July-December 2023	July 24, 2023	August 18, 2023	September 24, 2023	July 31, 2023

