

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**

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
1	rec23-ee01	Electric Vehicles - Part 1	Electrical and Electronics Engineering	Prof. Anil Jain	4 Weeks	1	EEE	Electrical and Electronics Engineering		January 23, 2023	February 17, 2023	March 26, 2023	January 30, 2023
2	rec23-ee09	A brief introduction of Micro - Sensors	Electrical and Electronics Engineering	Prof. Santanu Talukder	4 Weeks	1	EEE	Electrical and Electronics Engineering		January 23, 2023	February 17, 2023	March 26, 2023	January 30, 2023
3	rec23-ee13	Power Management Integrated Circuits	Electrical and Electronics Engineering	Prof. Gadeer Ahmed Khan	12 Weeks	3	EEE	Electrical and Electronics Engineering		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
4	rec23-ee20	High Power Multilevel Converters- Analysis, design and operational issues	Electrical and Electronics Engineering	Prof. Anandap Das	12 Weeks	3	EEE	Electrical and Electronics Engineering		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
5	rec23-ee35	Semiconductor device modeling and Simulation	Electrical and Electronics Engineering	Prof. Vivek Dutt	12 Weeks	3	EEE	Electrical and Electronics Engineering		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
6	rec23-ee67	Physics of Nanoscale Devices	Electronics and Communication	Prof. Vishwendra Singh Poonia	12 Weeks	3	EEE	Electronics and Communication		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
7	rec23-ee74	Analog Circuits And Systems Through SPICE Simulation	Electronics and Communication Engineering	Prof. Miganek Sharad	12 Weeks	3	EEE	Electronics and Communication Engineering		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
8	rec23-hs11	Emotional Intelligence	Humanities and Social Science	Prof. Rabindra Kumar Pradhan	8 Weeks	2	EEE	Humanities and Social Science		January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
9	rec23-hs15	Introduction On Intellectual Property To Engineers And Technologists	Humanities and Social Science	Prof. Tapas Kumar Bandyopadhyay	8 Weeks	2	EEE	Humanities and Social Science		February 20, 2023	April 14, 2023	April 29, 2023	February 20, 2023
10	rec23-hs16	Elements of Literature and Creative Communication	Humanities and Social Science	Prof. H S Komalatha	12 Weeks	3	EEE	Humanities and Social Science		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
11	rec23-hs17	Education for Sustainable Development	Humanities and Social Science	Prof. Abasi Mohanty	12 Weeks	3	EEE	Humanities and Social Science		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
12	rec23-hs26	Patent Law for Engineers and Scientists	Humanities and Social Sciences	Prof. Feroz Ali	12 Weeks	3	EEE	Humanities and Social Sciences		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
13	rec23-hs43	Patent Drafting for Beginners	Humanities and Social Sciences	Prof. Feroz Ali	4 Weeks	1	EEE	Humanities and Social Sciences		January 23, 2023	February 17, 2023	March 26, 2023	January 30, 2023
14	rec23-hs44	An Introduction to Microeconomics	Humanities and Social Sciences	Prof. Vimal Kumar	12 Weeks	3	EEE	Humanities and Social Sciences		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
15	rec23-hs71	Psychology of Stress, Health and Well-being	Humanities and Social Sciences	Prof. Dihar Hussain	12 Weeks	3	EEE	Humanities and Social Sciences		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
16	rec23-mgt11	Design Thinking - A Primer	Management	Prof. Ashw Mahalingam Prof. Balu Ramadurai	4 Weeks	1	EEE	Management		January 23, 2023	February 17, 2023	March 26, 2023	January 30, 2023
17	rec23-mgt13	Financial Management For Managers	Management	Prof. Anil K. Sharma	12 Weeks	3	EEE	Management		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
18	rec23-mgt28	Leadership and Team Effectiveness	Management	Prof. Santosh Rangnekar	12 Weeks	3	EEE	Management		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
19	rec23-mgt41	Ethics in Engineering Practice	Management	Prof. Sumita Mukhopadhyay	8 Weeks	2	EEE	Management		February 20, 2023	April 14, 2023	April 29, 2023	February 20, 2023
20	rec23-ma24	Probability And Statistics	Mathematics	Prof. Somesh Kumar	12 Weeks	3	EEE	Mathematics		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
21	rec23-ma31	Applied Linear Algebra in AI and ML	Mathematics	Prof. Swardand Khare	12 Weeks	3	EEE	Mathematics		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
22	rec23-me07	Robotics and Control - Theory and Practice	Mechanical Engineering	Prof. N. Subramaniam Prof. M. Felix Orlando	8 Weeks	2	EEE	Mechanical Engineering		January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
23	rec23-me17	Nature and Properties of Materials	Mechanical Engineering	Prof. Bishakh Bhattacharya	8 Weeks	2	EEE	Mechanical Engineering		February 20, 2023	April 14, 2023	April 30, 2023	February 20, 2023
24	rec23-hs10	Soft Skill Development	Humanities and Social Science	Prof. V. N. Giri Prof. D. Sagar	8 Weeks	2	EEE	Humanities and Social Science		January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
25	rec23-hs13	Speaking Effectively	Humanities and Social Science	Prof. Argal Gera Roy	8 Weeks	2	EEE	Humanities and Social Science		January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
26	rec23-hs19	Effective Writing	Humanities and Social Sciences	Prof. Binod Mishra	4 Weeks	1	EEE	Humanities and Social Sciences		January 23, 2023	February 17, 2023	March 26, 2023	January 30, 2023
27	rec23-hs30	Enhancing Soft Skills and Personality	Humanities and Social Sciences	Prof. T. Ravichandran	8 Weeks	2	EEE	Humanities and Social Sciences		February 20, 2023	April 14, 2023	April 29, 2023	February 20, 2023
28	rec23-hs31	Literature, Culture and Media	Humanities and Social Sciences	Prof. Rashmi Gaur	12 Weeks	3	EEE	Humanities and Social Sciences		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
29	rec23-mgt05	Data Analysis and Decision Making - I	Management	Prof. Raghu Nandan Sengupta	12 Weeks	3	EEE	Management		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
30	rec23-mgt09	Introduction to Operations Research	Management	Prof. G. Srivastava	8 Weeks	2	EEE	Management		February 20, 2023	April 14, 2023	April 30, 2023	February 20, 2023
31	rec23-mgt11	Design Thinking - A Primer	Management	Prof. Ashw Mahalingam Prof. Balu Ramadurai	4 Weeks	1	EEE	Management		January 23, 2023	February 17, 2023	March 26, 2023	January 30, 2023
32	rec23-mgt28	Leadership and Team Effectiveness	Management	Prof. Santosh Rangnekar	12 Weeks	3	EEE	Management		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
33	rec23-mgt56	Engineering Economics	Management	Prof. Rudra P Pradhan	12 Weeks	3	EEE	Management		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
34	rec23-ma30	Advanced Computational Techniques	Mathematics	Prof. Somnath Bhattacharyya	4 Weeks	1	EEE	Mathematics		February 20, 2023	March 17, 2023	April 30, 2023	February 20, 2023
35	rec23-ma39	Essentials Of Data Science With R Software - 1: Probability And Statistical Inference	Mathematics	Prof. Shalesh	12 Weeks	3	EEE	Mathematics		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
36	rec23-me50	Mechatronics	Mechanical Engineering	Prof. Pushparaj Mani Pathak	8 Weeks	2	EEE	Mechanical Engineering		February 20, 2023	April 14, 2023	April 29, 2023	February 20, 2023
37	rec23-ge12	Rural Water Resources Management	Multidisciplinary	Prof. Pennan Chinvasamy	12 Weeks	3	EEE	Multidisciplinary		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
38	rec23-ge15	Fuzzy Logic And Neural Networks	Multidisciplinary	Prof. Dilip Kumar Prathar	8 Weeks	2	EEE	Multidisciplinary		February 20, 2023	April 14, 2023	April 30, 2023	February 20, 2023
39	rec23-ph06	A brief course on Superconductivity	Physics	Prof. Saurabh Basu	4 Weeks	1	EEE	Physics		January 23, 2023	February 17, 2023	March 26, 2023	January 30, 2023
40	rec23-ph18	Electronic Theory Of Solids	Physics	Prof. Arghya Taraphder	12 Weeks	3	EEE	Physics		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
41	rec23-eh30	Physico-chemical processes for wastewater treatment	Chemical Engineering	Prof. Vimal Chandra Srivastava	12 Weeks	3	EEE	Chemical Engineering		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
42	rec23-eh31	Metallocene and Metal-carbene based Organometallic Compounds as Industrially Important Advanced Polyolefin Catalysts	Chemical Engineering	Prof. Sanjay K. Patra	8 Weeks	2	EEE	Chemical Engineering		February 20, 2023	April 14, 2023	April 29, 2023	February 20, 2023
43	rec23-eh32	Chemical Engineering Fluid Dynamics and Heat Transfer	Chemical Engineering	Prof. Babirata Mukherjee Prof. Anubhava	12 Weeks	3	EEE	Chemical Engineering		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
44	rec23-eh33	Biomass Conversion and Biorefinery	Chemical Engineering	Prof. Kavubabu Mohanty	12 Weeks	3	EEE	Chemical Engineering		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
45	rec23-eh34	Aspen Plus® simulation software - a basic course for beginners	Chemical Engineering	Prof. Prabhakumar Saha	12 Weeks	3	EEE	Chemical Engineering		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
46	rec23-eh35	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	Chemical Engineering	Prof. Vaibhav Vasant Goud Prof. R. Arundelakshmi	12 Weeks	3	EEE	Chemical Engineering		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
47	rec23-cs05	An Introduction to Artificial Intelligence	Computer Science and Engineering	Prof. Mausam	12 Weeks	3	EEE	Computer Science and Engineering		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
48	rec23-cs06	Introduction to Embedded System Design	Computer Science and Engineering	Prof. Dharmajyoti V. Gadre Prof. Babu N. Subrah	12 Weeks	3	EEE	Computer Science and Engineering		January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
49	rec23-cs07	Advanced Computer Architecture	Computer Science and Engineering	Prof. Smita R Sarangi	12 Weeks	3	EEE	Computer Science and Engineering		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
50	rec23-cs08	Data Analytics with Python	Computer Science and Engineering	Prof. A. Ramesh	12 Weeks	3	EEE	Computer Science and Engineering		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
51	rec23-cs51	Introduction To Internet Of Things	Computer Science and Engineering	Prof. Sudip Misra	12 Weeks	3	EEE	Computer Science and Engineering		January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
52	rec23-ee44	VLSI Signal Processing	Electrical Engineering	Prof. Mithunjoy Chakraborty	8 Weeks	2	EEE	Electrical Engineering		February 20, 2023	April 14, 2023	April 29, 2023	February 20, 2023
53	rec23-ee26	Recent Advances in Transmission Insulators	Electrical and Electronics Engineering	Prof. Subba Reddy B	4 Weeks	1	EEE	Electrical and Electronics Engineering		January 23, 2023	February 17, 2023	March 26, 2023	January 30, 2023
54	rec23-ee24	Electronics equipment integration and Prototype building	Electrical and Electronics Engineering	Prof. N.V.Chaitanya Rao	8 Weeks	2	EEE	Electrical and Electronics Engineering		January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023