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

SI. 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
noc23-ch04	Computer Aided Applied Single Objective Optimization	Chemical Engineering	Prof. Prakash Kotecha	12 Weeks	3	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
noc23-ch05	Waste to Energy Conversion	Chemical Engineering	Prof. P. Mondal	8 Weeks	2	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
noc23-ch09	Applied Time-Series Analysis	Chemical Engineering	Prof. Arun K Tangirala	12 Weeks	3	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
noc23-ch10	Computational Fluid Dynamics	Chemical Engineering	Prof. Srinivas Jayanti	12 Weeks	3	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
noc23-ch11	Process Control - Design, Analysis and Assessment	Chemical Engineering	Prof. Ragunathan Rengasamy	8 Weeks	2	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
noc23-ch14	Multiphase Flows	Chemical Engineering	Prof. Rajesh Kumar Upadhyay	12 Weeks	3	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
noc23-ch15	Environmental Quality Monitoring & Analysis	Chemical Engineering	Prof. Ravi Krishna R	8 Weeks	2	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
noc23-ch17	Biological process design for wastewater treatment	Chemical Engineering	Prof. Vimal Chandra Srivastava	4 Weeks	1	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	February 17, 2023	March 26, 2023	January 30, 2023
noc23-ch18	Introduction To Process Modeling In The Membrane Separation Process	Chemical Engineering	Prof. Sirshendu De	8 Weeks	2	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
noc23-ch19	Soft Nano Technology	Chemical Engineering	Prof. Rabibrata Mukherjee	8 Weeks	2	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
noc23-ch22	Optimization In Chemical Engineering	Chemical Engineering	Prof. Debasis Sarkar	12 Weeks	3	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
noc23-ch30	Physico-chemical processes for wastewater treatment	Chemical Engineering	Prof. Vimal Chandra Srivastava	12 Weeks	3	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
noc23-ch33	Biomass Conversion and Biorefinery	Chemical Engineering	Prof. Kaustubha Mohanty	12 Weeks	3	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
noc23-ch34	Aspen Plus® simulation software - a basic course for beginners	Chemical Engineering	Prof. Prabirkumar Saha	12 Weeks	3	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023
noc23-ch35	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	Chemical Engineering	Prof. Vaibhav Vasant Goud Prof. R. Anandalakshmi	12 Weeks	3	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
noc23-ch36	Physical and Electrochemical Characterization in Chemical Engineering	Chemical Engineering	Prof. Tamal Banerjee	8 Weeks	2	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	February 20, 2023	April 14, 2023	April 29, 2023	February 20, 2023
noc23-ch37	Multiphase Microfluidics	Chemical Engineering	Prof. Raghvendra Gupta	8 Weeks	2	Chemical Engineering	Chemical Engineering	Jan-23 to June-23	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023

$Table \ 1. \ List \ of \ certifiable \ courses \ approved \ for \ earning \ the \ extra \ credits \ under \ type \ Interdisciplinary$

SI 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
	noc23-ag07	Soil And Water Conservation Engineering	Agriculture Engineering	Prof. Rajendra Singh	12 Weeks	3	Agriculture Engineering	Agriculture Engineering	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-bt30	Nanotechnology In Agriculture	Biotechnology and Bioengineering	Prof. Mainak Das	8 Weeks	2	Biotechnology and Bioengineering	Biotechnology and Bioengineering	Jan-23 to June-23	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
	noc23-ce10	Applied Environmental Microbiology	Civil Engineering	Prof. Gargi Singh	12 Weeks	3	Civil Engineering	Civil Engineering	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-cs17	Data Science for Engineers	Computer Science and Engineering	Prof. Ragunathan Rengasamy Prof. Shankar Narasimhan	8 Weeks	2	Computer Science and Engineering	Computer Science and Engineering	Jan-23 to June-23	January 23, 2023	March 17, 2023	March 26, 2023	January 30, 2023
	noc23-hs26	Patent Law for Engineers and Scientists	Humanities and Social Sciences	Prof. Feroz Ali	12 Weeks	3	Humanities and Social Sciences	Humanities and Social Sciences	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 29, 2023	January 30, 2023
	noc23-ge06	Research Methodology in Natural Sciences	Multidisciplinary	Prof. Soumitro Banerjee	12 Weeks	3	Multidisciplinary	Multidisciplinary	Jan-23 to June-23	January 23, 2023	April 14, 2023	April 30, 2023	January 30, 2023