



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ (ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ)  
Visvesvaraya Technological University, Belagavi (State Technological University, Govt. of Karnataka)

**ECE/TCE BoS – Submission of Bouquet of MOOCs/NPTEL/SWAYAM Courses – July 2022 – Dec 2022**

Table #	Stream	# Courses
Table 1	Core ECE Stream	33
Table 2	CSE Discipline (Interdisciplinary)	30
Table 3	Mechanical Discipline, Aerospace Engineering, Metallurgical and Materials Engineering (Interdisciplinary)	09
Table 4	Biotechnology and Bioengineering, Chemistry, Civil Engineering, Design Engineering, Mathematics, Physics, Economics, Earth Science (Interdisciplinary addressing cutting edge technologies, environmental, etc.)	45
Table 5	Humanities and Social Sciences, Management, Multidisciplinary (addresses economics and others that kindles research activities, start-ups, entrepreneurial activities etc.)	79
	Total Number of Courses	196

**Table 1. List of certifiable courses approved for earning the extra credits under core ECE Stream**

S.no	Course Id	Discipline	Course Name	SME Name	Institute	Duration	Start date	End date	Click here to join the course
1	noc22-ee68	Electrical and Electronics Engineering	Applied Electromagnetics For Engineers	Prof. Pradeep Kumar K	IITK	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee68/preview">https://onlinecourses.nptel.ac.in/noc22_ee68/preview</a>
2	noc22-ee71	Electrical and Electronics Engineering	Design of photovoltaic systems	Prof. L Umanand	IISc	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee71/preview">https://onlinecourses.nptel.ac.in/noc22_ee71/preview</a>
3	noc22-ee72	Electrical and Electronics Engineering	Principles of Signal Estimation for MIMO/ OFDM Wireless Communication	Prof. Aditya K. Jagannatham	IITK	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee72/preview">https://onlinecourses.nptel.ac.in/noc22_ee72/preview</a>
4	noc22-ee75	Electrical and Electronics Engineering	Enclosure design of electronics equipment	Prof. N. V Chalapathi Rao	IISc	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee75/preview">https://onlinecourses.nptel.ac.in/noc22_ee75/preview</a>
5	noc22-ee76	Electrical and Electronics Engineering	Fabrication Techniques for MEMs-based sensors : clinical perspective	Prof. Hardik Jeetendra Pandya	IISc	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee76/preview">https://onlinecourses.nptel.ac.in/noc22_ee76/preview</a>
6	noc22-ee77	Electrical and Electronics Engineering	Electronic Systems for Cancer Diagnosis	Prof. Hardik Jeetendra Pandya	IISc	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee77/preview">https://onlinecourses.nptel.ac.in/noc22_ee77/preview</a>
7	noc22-ee78	Electrical and Electronics Engineering	Basics of software defined Radios	Prof. Meenakshi Rawat	IITR	4 weeks	Jul 25, 2022	Aug 19, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee78/preview">https://onlinecourses.nptel.ac.in/noc22_ee78/preview</a>
8	noc22-ee81	Electrical and Electronics Engineering	Dc Microgrid and control systems	Prof. Avik Bhattacharya	IITR	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee81/preview">https://onlinecourses.nptel.ac.in/noc22_ee81/preview</a>
9	noc22-ee82	Electrical and Electronics Engineering	Introduction to Smart Grid	Prof. N.P. Padhy Prof. Premalata Jena	IITR	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee82/preview">https://onlinecourses.nptel.ac.in/noc22_ee82/preview</a>
10	noc22-ee84	Electrical and Electronics Engineering	Linear Systems Theory	Prof. Ramkrishna Pasumarthy	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee84/preview">https://onlinecourses.nptel.ac.in/noc22_ee84/preview</a>

11	noc22-ee86	Electrical and Electronics Engineering	Image Signal Processing	Prof. A. N. Rajagopalan	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee86/preview">https://onlinecourses.nptel.ac.in/noc22_ee86/preview</a>
12	noc22-ee87	Electrical and Electronics Engineering	Introductory Neuroscience & Neuro-Instrumentation	Prof. Mahesh Jayachandra	IISc	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee87/preview">https://onlinecourses.nptel.ac.in/noc22_ee87/preview</a>
13	noc22-ee88	Electrical and Electronics Engineering	Fiber Optic Communication Technology	Prof. Deepa Venkitesh	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee88/preview">https://onlinecourses.nptel.ac.in/noc22_ee88/preview</a>
14	noc22-ee94	Electrical and Electronics Engineering	Fundamentals Of Electric Drives	Prof. Shyama Prasad Das	IITK	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee94/preview">https://onlinecourses.nptel.ac.in/noc22_ee94/preview</a>
15	noc22-ee95	Electrical and Electronics Engineering	Concentration inequalities	Prof. Aditya Gopalan; Prof. Himanshu tyagi	IISc	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee95/preview">https://onlinecourses.nptel.ac.in/noc22_ee95/preview</a>
16	noc22-ee96	Electrical and Electronics Engineering	Mathematical Aspects of Biomedical Electronic System Design	Prof. Chandramani Singh	IISc	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee96/preview">https://onlinecourses.nptel.ac.in/noc22_ee96/preview</a>
17	noc22-ee98	Electrical and Electronics Engineering	Advances in UHV Transmission and Distribution	Prof. Subba Reddy	IISC	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee98/preview">https://onlinecourses.nptel.ac.in/noc22_ee98/preview</a>
18	noc22-ee99	Electrical and Electronics Engineering	Real-Time Digital Signal Processing	Prof. Rathna G N	IISc	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee99/preview">https://onlinecourses.nptel.ac.in/noc22_ee99/preview</a>
19	noc22-ee100	Electrical and Electronics Engineering	Control and Tuning Methods in Switched Mode Power Converters	Prof. Santanu Kapat	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee100/preview">https://onlinecourses.nptel.ac.in/noc22_ee100/preview</a>
20	noc22-ee101	Electrical and Electronics Engineering	Power System Protection	Prof. Ashok Kumar Pradhan	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee101/preview">https://onlinecourses.nptel.ac.in/noc22_ee101/preview</a>
21	noc22-ee102	Electrical and Electronics Engineering	Signal Processing for mm Wave communication for 5G and beyond	Prof. Amit Kumar Dutta	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee102/preview">https://onlinecourses.nptel.ac.in/noc22_ee102/preview</a>
22	noc22-ee105	Electrical and Electronics Engineering	Computational Electromagnetics	Prof. Uday Khankhoje	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee105/preview">https://onlinecourses.nptel.ac.in/noc22_ee105/preview</a>

23	noc22-ee107	Electrical and Electronics Engineering	Probability Foundations for Electrical Engineers	Prof. Krishna Jagannathan	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee107/preview">https://onlinecourses.nptel.ac.in/noc22_ee107/preview</a>
24	noc22-ee108	Electrical and Electronics Engineering	An introduction to Coding Theory	Prof. Adrish Banerjee	IITK	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee108/preview">https://onlinecourses.nptel.ac.in/noc22_ee108/preview</a>
25	noc22-ee111	Electrical and Electronics Engineering	Electrical Machines - I	Prof. Tapas Kumar Bhattacharya	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee111/preview">https://onlinecourses.nptel.ac.in/noc22_ee111/preview</a>
26	noc22-ee114	Electrical and Electronics Engineering	Principles And Techniques Of Modern Radar Systems	Prof. Amitabha Bhattacharya	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee114/preview">https://onlinecourses.nptel.ac.in/noc22_ee114/preview</a>
27	noc22-ee117	Electrical and Electronics Engineering	Digital Speech Processing	Prof. Shyamal Kumar Das Mandal	IITKG P	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee117/preview">https://onlinecourses.nptel.ac.in/noc22_ee117/preview</a>
28	noc22-ee119	Electrical and Electronics Engineering	Pattern recognition and Application	Prof. Prabir Kumar Biswas	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee119/preview">https://onlinecourses.nptel.ac.in/noc22_ee119/preview</a>
29	noc22-ee120	Electrical and Electronics Engineering	Power System Analysis	Prof. Debapriya Das	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee120/preview">https://onlinecourses.nptel.ac.in/noc22_ee120/preview</a>
30	noc22-ee121	Electrical and Electronics Engineering	Fundamentals of Nano and Quantum Photonics	Prof. Naresh Kumar Emani	IITH	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee121/preview">https://onlinecourses.nptel.ac.in/noc22_ee121/preview</a>
31	noc22-ee123	Electrical and Electronics Engineering	Probability and Random Processes (प्रायिकता एवं यादृच्छिक प्रक्रियाएँ)	Prof Rohit Sinha Prof. Ribhu	IITG	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee123/preview">https://onlinecourses.nptel.ac.in/noc22_ee123/preview</a>
32	noc22-ee125	Electrical and Electronics Engineering	VLSI Interconnects	Prof. Sarang Pendharker	IITKG P	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee125/preview">https://onlinecourses.nptel.ac.in/noc22_ee125/preview</a>
33	noc22-ee127	Electrical and Electronics Engineering	Advance power electronics and Control	Prof. Avik Bhattacharya	IITR	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ee127/preview">https://onlinecourses.nptel.ac.in/noc22_ee127/preview</a>

**Table 2. List of certifiable courses approved for earning the extra credits by ECE Students under CSE Discipline (Interdisciplinary)**

S.no	Course Id	Discipline	Course Name	SME Name	Institute	Duration	Start date	End date	Click here to join the course
1	noc22-cs63	Computer Science and Engineering	Theory of Computation	Prof. Raghunath Tewari	IITK	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs63/preview">https://onlinecourses.nptel.ac.in/noc22_cs63/preview</a>
2	noc22-cs65	Computer Science and Engineering	Big Data Computing	Prof. Rajiv Misra	IIT Patna	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs65/preview">https://onlinecourses.nptel.ac.in/noc22_cs65/preview</a>
3	noc22-cs67	Computer Science and Engineering	Artificial Intelligence : Search Methods For Problem solving	Prof. Deepak Khemani	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs67/preview">https://onlinecourses.nptel.ac.in/noc22_cs67/preview</a>
4	noc22-cs71	Computer Science and Engineering	Design and analysis of algorithms	Prof. Madhavan Mukund	CMI	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs71/preview">https://onlinecourses.nptel.ac.in/noc22_cs71/preview</a>
5	noc22-cs72	Computer Science and Engineering	Data Science for Engineers	Prof. Ragunathan Rengasamy Prof. Shankar Narasimhan	IITM	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs72/preview">https://onlinecourses.nptel.ac.in/noc22_cs72/preview</a>
6	noc22-cs75	Computer Science and Engineering	Reinforcement Learning	Prof. Balaraman Ravindran	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs75/preview">https://onlinecourses.nptel.ac.in/noc22_cs75/preview</a>
7	noc22-cs76	Computer Science and Engineering	Deep Learning for Computer Vision	Prof. Vineeth N Balasubramanian	IITH	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs76/preview">https://onlinecourses.nptel.ac.in/noc22_cs76/preview</a>
8	noc22-cs77	Computer Science and Engineering	Introduction to Game Theory and Mechanism Design	Prof. Swaprava Nath	IITB	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs77/preview">https://onlinecourses.nptel.ac.in/noc22_cs77/preview</a>
9	noc22-cs79	Computer Science and Engineering	Introduction to Quantum Computing: Quantum Algorithms and Qiskit	Prof. Prabha Mandayam; Prof. Anupama Ray Prof. Sheshashayee Raghunathan	IBM and IITM	4 Weeks	Jul 25, 2022	Aug 19, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs79/preview">https://onlinecourses.nptel.ac.in/noc22_cs79/preview</a>
10	noc22-cs80	Computer Science and Engineering	Advanced Distributed systems	Prof. Smruti R. Sarangi	IITD	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs80/preview">https://onlinecourses.nptel.ac.in/noc22_cs80/preview</a>

11	noc22-cs81	Computer Science and Engineering	Parameterized Algorithms	Prof. Neeldhara Misra Prof. Saket Saurabh	IIT Gandhinagar	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs81/preview">https://onlinecourses.nptel.ac.in/noc22_cs81/preview</a>
12	noc22-cs82	Computer Science and Engineering	Getting Started with Competitive Programming	Prof. Neeldhara Misra	IIT Gandhinagar	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs82/preview">https://onlinecourses.nptel.ac.in/noc22_cs82/preview</a>
13	noc22-cs85	Computer Science and Engineering	Discrete Mathematics - IITB	Prof. Ashish Choudhury	IIT Bangalore	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs85/preview">https://onlinecourses.nptel.ac.in/noc22_cs85/preview</a>
14	noc22-cs87	Computer Science and Engineering	Cloud Computing	Prof. Soumya Kanti Ghosh	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs87/preview">https://onlinecourses.nptel.ac.in/noc22_cs87/preview</a>
15	noc22-cs89	Computer Science and Engineering	Computer Vision	Prof. Jayanta Mukhopadhyay	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs89/preview">https://onlinecourses.nptel.ac.in/noc22_cs89/preview</a>
16	noc22-cs91	Computer Science and Engineering	Data Base Management System	Prof. Partha Pratim Das; Prof. Ansuman Banerjee Prof. Kausik Datta	IITKGP	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs91/preview">https://onlinecourses.nptel.ac.in/noc22_cs91/preview</a>
17	noc22-cs95	Computer Science and Engineering	Introduction To Industry 4.0 And Industrial Internet Of Things	Prof. Sudip Misra	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs95/preview">https://onlinecourses.nptel.ac.in/noc22_cs95/preview</a>
18	noc22-cs98	Computer Science and Engineering	Natural Language Processing	Prof. Pawan Goyal	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs98/preview">https://onlinecourses.nptel.ac.in/noc22_cs98/preview</a>
19	noc22-cs105	Computer Science and Engineering	Scalable Data Science	Prof. Anirban Dasgupta Prof. Sourangshu Bhattacharya	IITKGP	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs105/preview">https://onlinecourses.nptel.ac.in/noc22_cs105/preview</a>
20	noc22-cs107	Computer Science and Engineering	Software Project Management	Prof. Rajib Mall Prof. Durga Prasad Mohapatra	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs107/preview">https://onlinecourses.nptel.ac.in/noc22_cs107/preview</a>
21	noc22-cs109	Computer Science and Engineering	C-Based VLSI Design	Prof. Chandan Karfa	IITG	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs109/preview">https://onlinecourses.nptel.ac.in/noc22_cs109/preview</a>

22	noc22-cs110	Computer Science and Engineering	Multi-Core Computer Architecture - Storage and Interconnects	Prof. John Jose	IITG	8 weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs110/preview">https://onlinecourses.nptel.ac.in/noc22_cs110/preview</a>
23	noc22-cs111	Computer Science and Engineering	Computer Graphics	Prof. Samit Bhattacharya	IITG	8 weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs111/preview">https://onlinecourses.nptel.ac.in/noc22_cs111/preview</a>
24	noc22-cs112	Computer Science and Engineering	Demystifying Networking	Prof. Sridhar Iyer Prof. Kavya Alse	IITB	4 weeks	Jul 25, 2022	Aug 19, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs112/preview">https://onlinecourses.nptel.ac.in/noc22_cs112/preview</a>
25	noc22-cs113	Computer Science and Engineering	Secure Computation: Part II	Prof. Ashish Choudhury	IIITB	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs113/preview">https://onlinecourses.nptel.ac.in/noc22_cs113/preview</a>
26	noc22-cs116	Computer Science and Engineering	Algorithmic Game Theory	Prof. Palash Dey	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs116/preview">https://onlinecourses.nptel.ac.in/noc22_cs116/preview</a>
27	noc22-cs117	Computer Science and Engineering	Social Network Analysis	Prof. Tanmoy Chakraborty	IIITD	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs117/preview">https://onlinecourses.nptel.ac.in/noc22_cs117/preview</a>
28	noc22-cs124	Computer Science and Engineering	Deep Learning - IIT Ropar	Prof. Mitesh M. Khapra; Prof. Sudarshan Iyengar	IIT Ropar	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs124/preview">https://onlinecourses.nptel.ac.in/noc22_cs124/preview</a>
29	noc22-cs125	Computer Science and Engineering	Design & Implementation of Human-Computer Interfaces	Prof. Samit Bhattacharya	IITG	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs125/preview">https://onlinecourses.nptel.ac.in/noc22_cs125/preview</a>
30	noc22-cs126	Computer Science and Engineering	Computational Complexity	Prof. Subrahmanyam Kalyanasundaram	IIT Hyderabad	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_cs126/preview">https://onlinecourses.nptel.ac.in/noc22_cs126/preview</a>

**Table 3. List of certifiable courses approved for earning the extra credits by ECE Students under  
Mechanical Discipline, Aerospace Engineering, Metallurgical and Materials Engineering (Interdisciplinary)**

S.no	Course Id	Discipline	Course Name	SME Name	Institute	Duration	Start date	End date	Click here to join the course
1	noc22-me74	Mechanical Engineering	Rapid Manufacturing	Prof. J. Ramkumar	IITK	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_me74/preview">https://onlinecourses.nptel.ac.in/noc22_me74/preview</a>
2	noc22-me75	Mechanical Engineering	Engineering Metrology	Prof. J. Ramkumar Prof. Amandeep Singh	IITK/NIT	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_me75/preview">https://onlinecourses.nptel.ac.in/noc22_me75/preview</a>
3	noc22-me77	Mechanical Engineering	Foundations of Cognitive Robotics	Prof. Bishakh Bhattacharya	IITK	4 weeks	Jul 25, 2022	Aug 19, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_me77/preview">https://onlinecourses.nptel.ac.in/noc22_me77/preview</a>
4	noc22-me92	Mechanical Engineering	Laser Based Manufacturing	Prof. S. N. Joshi	IITG	8 Weeks	Aug, 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_me92/preview">https://onlinecourses.nptel.ac.in/noc22_me92/preview</a>
5	noc22-me93	Mechanical Engineering	Mechanics and Control of Robotic Manipulators	Prof. Santhakumar Mohan	IIT Palakkad	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_me93/preview">https://onlinecourses.nptel.ac.in/noc22_me93/preview</a>
6	noc22-me98	Mechanical Engineering	Elements of Solar Energy Conversion	Prof. Jishnu Bhattacharya	IITK	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_me98/preview">https://onlinecourses.nptel.ac.in/noc22_me98/preview</a>
7	noc22-me100	Mechanical Engineering	Manufacturing Processes - Casting And Joining	Prof. Sounak Kumar Choudhury	IITK	4 Weeks	Jul 25, 2022	Aug 19, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_me100/preview">https://onlinecourses.nptel.ac.in/noc22_me100/preview</a>
8	noc22-me109	Mechanical Engineering	Robotics	Prof. D. K. Pratihari	IITKGP	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_me109/preview">https://onlinecourses.nptel.ac.in/noc22_me109/preview</a>
9	noc22-me128	Mechanical Engineering	Design of Mechatronic Systems	Prof. Prasanna Gandhi	IITB	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_me128/preview">https://onlinecourses.nptel.ac.in/noc22_me128/preview</a>



**Table 4. List of certifiable courses approved for earning the extra credits by ECE Students under  
Biotechnology and Bioengineering, Chemistry, Civil Engineering, Design Engineering, Mathematics, Physics, Economics, Earth Science  
(Interdisciplinary addressing cutting edge technologies, environmental, etc.)**

S.no	Course Id	Discipline	Course Name	SME Name	Institute	Duration	Start date	End date	Click here to join the course
1	noc22-bt61	Biotechnology and Bioengineering	Organ Printing	Prof. Falguni Pati	IIT Hyderabad	8 Weeks	25 July 2022	16 September 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_bt61/preview">https://onlinecourses.nptel.ac.in/noc22_bt61/preview</a>
2	noc22-bt34	Biotechnology and Bioengineering	Medical Image Analysis	Prof. Ganapathy krishnamurthi	IITM	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_bt34/preview">https://onlinecourses.nptel.ac.in/noc22_bt34/preview</a>
3	noc22-bt45	Biotechnology and Bioengineering	Fundamentals of micro and nanofabrication	Prof Sushobhan Avasti; Prof. Shankar Selvaraja	IISc	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_bt45/preview">https://onlinecourses.nptel.ac.in/noc22_bt45/preview</a>
4	noc22-bt46	Biotechnology and Bioengineering	Biomedical nanotechnology	Prof. P.Gopinath	IITR	4 weeks	Aug 22, 2022	16 September 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_bt46/preview">https://onlinecourses.nptel.ac.in/noc22_bt46/preview</a>
5	noc22-bt56	Biotechnology and Bioengineering	Introduction to Biomedical Imaging Systems	Prof. Arun K. Thittai	IITM	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_bt56/preview">https://onlinecourses.nptel.ac.in/noc22_bt56/preview</a>
6	noc22-ce76	Civil Engineering	Wastewater Treatment And Recycling	Prof. Manoj Kumar Tiwari	IITKGP	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ce76/preview">https://onlinecourses.nptel.ac.in/noc22_ce76/preview</a>
7	noc22-ce64	Civil Engineering	Introduction to Engineering Seismology	Prof. Anbazhagan Panjamani	IISC	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ce64/preview">https://onlinecourses.nptel.ac.in/noc22_ce64/preview</a>
8	noc22-ce62	Civil Engineering	Underground Space Technology	Prof. Priti Maheshwari	IITR	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ce62/preview">https://onlinecourses.nptel.ac.in/noc22_ce62/preview</a>
9	noc22-ce72	Civil Engineering	Plastic Waste Management	Prof. Brajesh Kumar Dubey	IITKGP	8 Weeks	22 August 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ce72/preview">https://onlinecourses.nptel.ac.in/noc22_ce72/preview</a>

10	noc22-ce84	Civil Engineering	Remote Sensing and GIS	Prof. Rishikesh Bharti	IITG	8 weeks	25 July 2022	16 September 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ce84/preview">https://onlinecourses.nptel.ac.in/noc22_ce84/preview</a>
11	noc22-de11	Design Engineering	Introduction to robotics	Prof. Asokan T Prof. Balaraman Ravindran Prof. Krishna Vasudevan	IITM	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_de11/preview">https://onlinecourses.nptel.ac.in/noc22_de11/preview</a>
12	noc22-de12	Design Engineering	System Design for Sustainability	Prof. Sharmistha Banerjee	IITG	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_de12/preview">https://onlinecourses.nptel.ac.in/noc22_de12/preview</a>
13	noc22-de13	Design Engineering	Ergonomics Workplace Analysis	Prof. Urmi R. Salve	IITG	4 weeks	Jul 25, 2022	19 August 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_de13/preview">https://onlinecourses.nptel.ac.in/noc22_de13/preview</a>
14	noc22-de14	Design Engineering	Innovation by Design	Prof. B. K. Chakravarthy	IITB	4 weeks	Jul 25, 2022	19 August 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_de14/preview">https://onlinecourses.nptel.ac.in/noc22_de14/preview</a>
15	noc22-de15	Design Engineering	Understanding Design	Prof. Nina Sabnani	IITB	4 weeks	Jul 25, 2022	19 August 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_de15/preview">https://onlinecourses.nptel.ac.in/noc22_de15/preview</a>
16	noc22-de16	Design Engineering	Design, Technology and Innovation	Prof. B. K. Chakravarthy	IITB	8 Weeks	Jul 25, 2022	16 September 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_de16/preview">https://onlinecourses.nptel.ac.in/noc22_de16/preview</a>
17	noc22-ce97	Earth Sciences	Global Navigation Satellite Systems And Applications	Prof. Arun K. Saraf	IITR	4 weeks	25 July 2022	19 August 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ce97/preview">https://onlinecourses.nptel.ac.in/noc22_ce97/preview</a>
18	noc22-ge17	Health sciences	Electrocardiogram - Interpretation and application in clinical practice	Multifaculty; Chettinad Hospital and Research Institute		4 weeks	25 July 2022	19 August 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ge17/preview">https://onlinecourses.nptel.ac.in/noc22_ge17/preview</a>
19	noc22-ma40	Mathematics	Essential Mathematics For Machine Learning	Prof. Sanjeev Kumar Prof. S.K. Gupta	IITR	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ma40/preview">https://onlinecourses.nptel.ac.in/noc22_ma40/preview</a>
20	noc22-ma53	Mathematics	Matrix Analysis with Applications	Prof. S.K. Gupta Prof. Sanjeev Kumar	IITR	8 Weeks	25 July 2022	16 September 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ma53/preview">https://onlinecourses.nptel.ac.in/noc22_ma53/preview</a>

21	noc22-ma56	Mathematics	Introduction to Probability Theory and Stochastic Processes	Prof. S Dharmaraja	IITD	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ma56/preview">https://onlinecourses.nptel.ac.in/noc22_ma56/preview</a>
22	noc22-ma71	Mathematics	Approximate Reasoning using Fuzzy Set Theory	Prof. Balasubramaniam Jayaram	IIT Hyderabad	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ma71/preview">https://onlinecourses.nptel.ac.in/noc22_ma71/preview</a>
23	noc22-ma75	Mathematics	Advanced Calculus For Engineers	Prof. Jitendra Kumar; Prof. Somesh Kumar	IITKG P	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ma75/preview">https://onlinecourses.nptel.ac.in/noc22_ma75/preview</a>
24	noc22-ma79	Mathematics	Introductory Course In Real Analysis	Prof. P D Srivastava	IITKG P	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ma79/preview">https://onlinecourses.nptel.ac.in/noc22_ma79/preview</a>
25	noc22-ma80	Mathematics	Mathematical Methods For Boundary Value Problems	Prof. Somnath Bhattacharyya	IITKG P	4 Weeks	25 July 2022	19 August 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ma80/preview">https://onlinecourses.nptel.ac.in/noc22_ma80/preview</a>
26	noc22-ma81	Mathematics	Introduction to Probability Theory and Statistics	Prof. S Dharmaraja	IITD	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ma81/preview">https://onlinecourses.nptel.ac.in/noc22_ma81/preview</a>
27	noc22-ma82	Mathematics	Matrix Computation and its applications	Prof. Mani Mehra Prof. Vivek K. Aggarwal	IITD	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ma82/preview">https://onlinecourses.nptel.ac.in/noc22_ma82/preview</a>
28	noc22-ma83	Mathematics	Probability with Examples Using R	Prof Siva Athreya	ISI bangalore	12 weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ma83/preview">https://onlinecourses.nptel.ac.in/noc22_ma83/preview</a>
29	noc22-ge29	Multidisciplinary	Fundamentals Of Artificial Intelligence	Prof. Shyamanta M. Hazarika	IITG	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ge29/preview">https://onlinecourses.nptel.ac.in/noc22_ge29/preview</a>
30	noc22-ge28	Multidisciplinary	Solar Energy Engineering and Technology	Prof. Pankaj Kalita	IITG	12 Weeks	25 July 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ge28/preview">https://onlinecourses.nptel.ac.in/noc22_ge28/preview</a>

31	noc22-ge23	Multidisciplinary	Introduction to Research	Prof. Edamana Prasad; Prof. Prathap Haridoss	IITM	8 Weeks	Aug 22, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ge23/preview">https://onlinecourses.nptel.ac.in/noc22_ge23/preview</a>
32	noc22-ph25	Physics	Solar Photovoltaics Fundamentals, Technology And Applications	Prof. Soumitra SataPathi	IITR	8 Weeks	Jul 25, 2022	16 September 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ph25/preview">https://onlinecourses.nptel.ac.in/noc22_ph25/preview</a>
33	noc22-ph26	Physics	Computational Physics	Prof. Apratim Chatterji; Prof. Prasenjit Ghosh	IISER Pune	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ph26/preview">https://onlinecourses.nptel.ac.in/noc22_ph26/preview</a>
34	noc22-ph29	Physics	Dynamics of Classical and Quantum Fields	Prof. Girish S. Setlur	IITG	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ph29/preview">https://onlinecourses.nptel.ac.in/noc22_ph29/preview</a>
35	noc22-ph30	Physics	Introduction to Quantum Field Theory(Theory of Scalar Fields)	Prof. Anurag Tripathi	IIT Hyderabad	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ph30/preview">https://onlinecourses.nptel.ac.in/noc22_ph30/preview</a>
36	noc22-ph32	Physics	Applied Optics	Prof. Akhilesh Kumar Mishra	IITR	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ph32/preview">https://onlinecourses.nptel.ac.in/noc22_ph32/preview</a>
37	noc22-ph37	Physics	Solid State Physics	Prof. Amal Kumar Das	IITKGP	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ph37/preview">https://onlinecourses.nptel.ac.in/noc22_ph37/preview</a>
38	noc22-ph40	Physics	Advanced Quantum Mechanics with Applications	Prof. Saurabh Basu	IITG	8 weeks	Jul 25, 2022	16 September 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ph40/preview">https://onlinecourses.nptel.ac.in/noc22_ph40/preview</a>
39	noc22-ph42	Physics	Numerical Methods And Simulation Techniques For Scientists And Engineers	Prof. Saurabh Basu	IITG	8 weeks	Jul 25, 2022	16 September 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ph42/preview">https://onlinecourses.nptel.ac.in/noc22_ph42/preview</a>
40	noc22-ph44	Physics	Physics of Renewable Energy Systems	Prof. Amreesh Chandra	IITKGP	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ph44/preview">https://onlinecourses.nptel.ac.in/noc22_ph44/preview</a>

41	noc22-ph45	Physics	Bonds and Bands in Solids	Prof. S. Ramasesha	IISc	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ph45/preview">https://onlinecourses.nptel.ac.in/noc22_ph45/preview</a>
42	noc22-ph46	Physics	Foundations of Classical Electrodynamics	Prof. Samudra Roy	IITKG P	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ph46/preview">https://onlinecourses.nptel.ac.in/noc22_ph46/preview</a>
43	noc22-hs71	Economics	Environmental & Resource Economics	Prof. Sabuj Kumar Mandal	IITM	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs71/preview">https://onlinecourses.nptel.ac.in/noc22_hs71/preview</a>
44	noc22-hs72	Economics	Economics of Banking and Finance Markets	Prof. Sukumar Vellakkal	IITK	12 weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs72/preview">https://onlinecourses.nptel.ac.in/noc22_hs72/preview</a>
45	noc22-hs140	Economics	Spatial Statistics and Spatial Econometrics	Prof. Gaurav Arora	IIITD	12 Weeks	Jul 25, 2022	14 October 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs140/preview">https://onlinecourses.nptel.ac.in/noc22_hs140/preview</a>

**Table 5. List of certifiable courses approved for earning the extra credits by ECE Students under  
Humanities and Social Sciences, Management, Multidisciplinary  
(Addresses others that kindles research activities, start-ups, entrepreneurial activities etc.)**

S.no	Course Id	Discipline	Course Name	SME Name	Institute	Duration	Start date	End date	Click here to join the course
1	noc22-hs73	Humanities and Social Sciences	Health Research Fundamentals	Prof. P. Manickam	NIE	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs73/preview">https://onlinecourses.nptel.ac.in/noc22_hs73/preview</a>
2	noc22-hs74	Humanities and Social Sciences	Patent Drafting for Beginners	Prof. Feroz Ali	IITM	4 weeks	Jul 25, 2022	Aug 19, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs74/preview">https://onlinecourses.nptel.ac.in/noc22_hs74/preview</a>
3	noc22-hs76	Humanities and Social Sciences	Soft skills	Prof. Binod Mishra	IITR	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs76/preview">https://onlinecourses.nptel.ac.in/noc22_hs76/preview</a>
4	noc22-hs77	Humanities and Social Sciences	Developing Soft Skills and Personality	Prof. T Ravichandran	IITK	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs77/preview">https://onlinecourses.nptel.ac.in/noc22_hs77/preview</a>
5	noc22-hs78	Humanities and Social Sciences	Body language: Key to professional Success	Prof. Rashmi Gaur	IITR	4 weeks	Aug 22, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs78/preview">https://onlinecourses.nptel.ac.in/noc22_hs78/preview</a>
6	noc22-hs81	Humanities and Social Sciences	Psychology of Everyday	Prof. Braj Bhushan; Prof. Alok Bajpai	IITK	4 weeks	Aug 22, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs81/preview">https://onlinecourses.nptel.ac.in/noc22_hs81/preview</a>
7	noc22-hs84	Humanities and Social Sciences	Introduction to Japanese Language and Culture	Prof. Vatsala Misra	IITK	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs84/preview">https://onlinecourses.nptel.ac.in/noc22_hs84/preview</a>
8	noc22-hs85	Humanities and Social Sciences	Applied Linguistics	Prof. Rajesh Kumar	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs85/preview">https://onlinecourses.nptel.ac.in/noc22_hs85/preview</a>

9	noc22- hs86	Humanities and Social Sciences	Appreciating Carnatic Music	Prof. Lakshmi Sreeram	IITM	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs86/preview">https://onlinecourses.nptel.ac.in/ noc22_hs86/preview</a>
10	noc22- hs87	Humanities and Social Sciences	Patent Law for Engineers and Scientists	Prof. Feroz Ali	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs87/preview">https://onlinecourses.nptel.ac.in/ noc22_hs87/preview</a>
11	noc22- hs88	Humanities and Social Sciences	German - I	Prof. Milind Brahme	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs88/preview">https://onlinecourses.nptel.ac.in/ noc22_hs88/preview</a>
12	noc22- hs89	Humanities and Social Sciences	German - II	Prof. Milind Brahme	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs89/preview">https://onlinecourses.nptel.ac.in/ noc22_hs89/preview</a>
13	noc22- hs90	Humanities and Social Sciences	Economics of IPR	Prof. Nalin Bharti	IITP	4 Weeks	Jul 25, 2022	Aug 19, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs90/preview">https://onlinecourses.nptel.ac.in/ noc22_hs90/preview</a>
14	noc22- hs93	Humanities and Social Sciences	Poetry	Prof. S P Dhanavel	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs93/preview">https://onlinecourses.nptel.ac.in/ noc22_hs93/preview</a>
15	noc22- hs94	Humanities and Social Sciences	Literary Theory and Literary Criticism	Prof. Aysha Iqbal	IITM	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs94/preview">https://onlinecourses.nptel.ac.in/ noc22_hs94/preview</a>
16	noc22- hs95	Humanities and Social Sciences	Introduction to Film Studies	Prof. Aysha Iqbal	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs95/preview">https://onlinecourses.nptel.ac.in/ noc22_hs95/preview</a>
17	noc22- hs96	Humanities and Social Sciences	Introduction to Advanced Cognitive Processes	Prof. Ark Verma	IITK	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs96/preview">https://onlinecourses.nptel.ac.in/ noc22_hs96/preview</a>
18	noc22- hs97	Humanities and Social Sciences	Introduction to Basic Cognitive Processes	Prof. Ark Verma	IITK	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs97/preview">https://onlinecourses.nptel.ac.in/ noc22_hs97/preview</a>
19	noc22- hs98	Humanities and Social Sciences	International Trade - Theory and Empirics	Prof. Pratap C. Mohanty	IITR	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs98/preview">https://onlinecourses.nptel.ac.in/ noc22_hs98/preview</a>

20	noc22-hs102	Humanities and Social Sciences	History of English Language and Literature	Prof. Merin Simi Raj	IIT M	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs102/preview">https://onlinecourses.nptel.ac.in/noc22_hs102/preview</a>
21	noc22hs104	Humanities and Social Sciences	Managing Intellectual Property in Universities	Prof. Feroz Ali	IITM	4 Weeks	Jul 25, 2022	Aug 19, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs104/preview">https://onlinecourses.nptel.ac.in/noc22_hs104/preview</a>
22	noc22hs105	Humanities and Social Sciences	Energy Economics And Policy	Prof. Shyamasree Dasgupta	IIT Mandi	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs105/preview">https://onlinecourses.nptel.ac.in/noc22_hs105/preview</a>
23	noc22hs134	Humanities and Social Sciences	Public Speaking	Prof. Binod Mishra	IITR	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs134/preview">https://onlinecourses.nptel.ac.in/noc22_hs134/preview</a>
24	noc22hs141	Humanities and Social Sciences	German - III	Prof. Milind Brahme	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_hs141/preview">https://onlinecourses.nptel.ac.in/noc22_hs141/preview</a>
25	noc22-mg57	Management	Marketing Management - I	Prof. Jayanta Chatterjee; Prof. Shashi Shekhar	IITK	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg57/preview">https://onlinecourses.nptel.ac.in/noc22_mg57/preview</a>
26	noc22-mg58	Management	Managing Services	Prof. Jayanta Chatterjee	IITK	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg58/preview">https://onlinecourses.nptel.ac.in/noc22_mg58/preview</a>
27	noc22-mg59	Management	Data Analysis & Decision Making - III	Prof. Raghu Nandan Sengupta	IITK	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg59/preview">https://onlinecourses.nptel.ac.in/noc22_mg59/preview</a>
28	noc22-mg60	Management	Project Management	Prof. Raghu Nandan Sengupta	IITK	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg60/preview">https://onlinecourses.nptel.ac.in/noc22_mg60/preview</a>
29	noc22-mg62	Management	Decision-Making Under Uncertainty	Prof. N. Gautam	Texas A&M Univ.	4 weeks	Aug 22, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg62/preview">https://onlinecourses.nptel.ac.in/noc22_mg62/preview</a>
30	noc22-mg63	Management	Financial Accounting	Prof. Varadraj Bapat	IITB	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg63/preview">https://onlinecourses.nptel.ac.in/noc22_mg63/preview</a>
31	noc22-mg64	Management	Cost Accounting	Prof. Varadraj Bapat	IITB	4 weeks	Jul 25, 2022	Aug 19, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg64/preview">https://onlinecourses.nptel.ac.in/noc22_mg64/preview</a>
32	noc22-mg65	Management	Management Accounting	Prof. Anil K. Sharma	IITR	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg65/preview">https://onlinecourses.nptel.ac.in/noc22_mg65/preview</a>



33	noc22-mg66	Management	Working Capital Management	Prof. Anil K. Sharma	IITR	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg66/preview">https://onlinecourses.nptel.ac.in/noc22_mg66/preview</a>
34	noc22-mg67	Management	Business Analytics & Data Mining Modeling Using R Part II	Prof. Gaurav Dixit	IITR	4 weeks	Jul 25, 2022	Aug 19, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg67/preview">https://onlinecourses.nptel.ac.in/noc22_mg67/preview</a>
35	noc22-mg68	Management	Business Analytics & Text Mining Modeling Using Python	Prof. Gaurav Dixit	IITR	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg68/preview">https://onlinecourses.nptel.ac.in/noc22_mg68/preview</a>
36	noc22-mg69	Management	Toyota Production System	Prof. Rajat Agarwal	IITR	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg69/preview">https://onlinecourses.nptel.ac.in/noc22_mg69/preview</a>
37	noc22-mg70	Management	Marketing research and analysis	Prof. J.K.Nayak	IITR	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg70/preview">https://onlinecourses.nptel.ac.in/noc22_mg70/preview</a>
38	noc22-mg71	Management	Project management for managers	Prof. Mukesh Kumar Barua	IITR	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg71/preview">https://onlinecourses.nptel.ac.in/noc22_mg71/preview</a>
39	noc22-mg72	Management	Services Marketing : Integrating People, Technology, Strategy	Prof. Zillur Rahman	IITR	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg72/preview">https://onlinecourses.nptel.ac.in/noc22_mg72/preview</a>
40	noc22-mg73	Management	Innovation, Business Models and Entrepreneurship	Prof. Rajat Agarwal; Prof. Vinay Sharma	IITR	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg73/preview">https://onlinecourses.nptel.ac.in/noc22_mg73/preview</a>
41	noc22-mg74	Management	Operations and supply chain management	Prof. G. Srinivasan	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg74/preview">https://onlinecourses.nptel.ac.in/noc22_mg74/preview</a>
42	noc22-mg75	Management	Design Thinking - A Primer	Prof. Ashwin Mahalingam Prof. Bala Ramadurai	IITM	4 Weeks	Aug 22, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg75/preview">https://onlinecourses.nptel.ac.in/noc22_mg75/preview</a>
43	noc22-mg76	Management	Game Theory	Prof.K.S. Mallikarjuna Rao	IITB	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg76/preview">https://onlinecourses.nptel.ac.in/noc22_mg76/preview</a>
44	noc22-mg77	Management	Strategy: An Introduction to game Theory	Prof. Aditya Jagannatham; Prof. Vimal Kumar	IITK	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg77/preview">https://onlinecourses.nptel.ac.in/noc22_mg77/preview</a>

45	noc22-mg79	Management	The Future of Manufacturing Business: Role of Digital Technologies	Prof. R. K. Amit Prof. U. Chandrasekhar	IITM & Wipro 3D	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg79/preview">https://onlinecourses.nptel.ac.in/noc22_mg79/preview</a>
46	noc22-mg80	Management	Managerial Skills for Interpersonal Dynamics	Prof. Santosh Rangnekar	IITR	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg80/preview">https://onlinecourses.nptel.ac.in/noc22_mg80/preview</a>
47	noc22-mg81	Management	Entrepreneurship	Prof. C Bhaktavatsala Rao	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg81/preview">https://onlinecourses.nptel.ac.in/noc22_mg81/preview</a>
48	noc22-mg82	Management	Product and Brand Management	Prof. Vinay Sharma	IITR	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg82/preview">https://onlinecourses.nptel.ac.in/noc22_mg82/preview</a>
49	noc22-mg83	Management	Quantitative Investment Management	Prof. J P Singh	IITR	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg83/preview">https://onlinecourses.nptel.ac.in/noc22_mg83/preview</a>
50	noc22-mg84	Management	Organization Development and Change in 21st Century	Prof. Ashish Pandey	IITB	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg84/preview">https://onlinecourses.nptel.ac.in/noc22_mg84/preview</a>
51	noc22-mg85	Management	Business and Sustainable Development	Prof. Trupti Mishra	IITB	4 weeks	Aug 22, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg85/preview">https://onlinecourses.nptel.ac.in/noc22_mg85/preview</a>
52	noc22-mg86	Management	Economics Of Health And Health Care	Prof. Angan Sengupta	Amrita Vishwa Vidyapeetham	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg86/preview">https://onlinecourses.nptel.ac.in/noc22_mg86/preview</a>
53	noc22-mg87	Management	Descriptive Statistics With R Software	Prof. Prashant Jha Prof. Shalabh	IITK	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg87/preview">https://onlinecourses.nptel.ac.in/noc22_mg87/preview</a>
54	noc22-mg88	Management	Strategic Management for Competitive Advantage	Prof. Sanjib Chowdhury	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg88/preview">https://onlinecourses.nptel.ac.in/noc22_mg88/preview</a>
55	noc22-mg89	Management	Strategic Management – The Competitive Edge	Prof. R Srinivasan	IISC	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg89/preview">https://onlinecourses.nptel.ac.in/noc22_mg89/preview</a>

56	noc22-mg90	Management	Automation in Production Systems and Management	Prof. Pradip Kumar Ray	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg90/preview">https://onlinecourses.nptel.ac.in/noc22_mg90/preview</a>
57	noc22-mg91	Management	Commodity Derivatives And Risk Management	Prof. Prabina Rajib	IITKG P	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg91/preview">https://onlinecourses.nptel.ac.in/noc22_mg91/preview</a>
58	noc22-mg92	Management	Corporate Finance	Prof. Abhijeet Chandra	IITKG P	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg92/preview">https://onlinecourses.nptel.ac.in/noc22_mg92/preview</a>
59	noc22-mg93	Management	Customer Relationship Management	Prof. Swagato Chatterjee	IITKG P	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg93/preview">https://onlinecourses.nptel.ac.in/noc22_mg93/preview</a>
60	noc22-mg94	Management	Decision Support System For Managers	Prof. Kunal Kanti Ghosh; Prof. Anupam Ghosh Prof Sujoy Bhattacharya	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg94/preview">https://onlinecourses.nptel.ac.in/noc22_mg94/preview</a>
61	noc22-mg95	Management	Ethics In Engineering Practice	Prof. Susmita Mukhopadhyay	IITKG P	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg95/preview">https://onlinecourses.nptel.ac.in/noc22_mg95/preview</a>
62	noc22-mg96	Management	Gender Justice And Workplace Security	Prof. Dipa Dube	IITKG P	4 Weeks	Aug 22, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg96/preview">https://onlinecourses.nptel.ac.in/noc22_mg96/preview</a>
63	noc22-mg97	Management	Industrial Safety Engineering	Prof. Jhareswar Maiti	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg97/preview">https://onlinecourses.nptel.ac.in/noc22_mg97/preview</a>
64	noc22-mg98	Management	Intellectual Property Rights And Competition Law	Prof. K. D. Raju Prof. Niharika Sahoo Bhattacharya	IITKG P	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg98/preview">https://onlinecourses.nptel.ac.in/noc22_mg98/preview</a>
65	noc22-mg99	Management	Knowledge Management	Prof. KBL Srivastava	IITKG P	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg99/preview">https://onlinecourses.nptel.ac.in/noc22_mg99/preview</a>
66	noc22-mg100	Management	Management Information System	Prof. Kunal Kanti Ghosh Prof. Saini Das Prof. Surojit Mukherjee	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg100/preview">https://onlinecourses.nptel.ac.in/noc22_mg100/preview</a>
67	noc22-ma38	Management	Matrix Solver	Prof. Somnath Roy	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_ma38/preview">https://onlinecourses.nptel.ac.in/noc22_ma38/preview</a>

68	noc22-mg101	Management	Patent Search and Analysis	Prof. M. Padmavati; Prof. Shreya Matilal	IITKG P	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg101/preview">https://onlinecourses.nptel.ac.in/noc22_mg101/preview</a>
69	noc22-mg102	Management	Performance And Reward Management	Prof. Susmita Mukhopadhyay	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg102/preview">https://onlinecourses.nptel.ac.in/noc22_mg102/preview</a>
70	noc22-mg103	Management	Principles Of Human Resource Management	Prof. Aradhna Malik	IITKG P	8 Weeks	Aug 22, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg103/preview">https://onlinecourses.nptel.ac.in/noc22_mg103/preview</a>
71	noc22-mg104	Management	Principles Of Management	Prof. Susmita Mukhopadhyay Prof. S. Srinivasan	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg104/preview">https://onlinecourses.nptel.ac.in/noc22_mg104/preview</a>
72	noc22-mg105	Management	Soft Skills For Business Negotiations And Marketing Strategies	Prof. Uttam Kumar Banerjee	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg105/preview">https://onlinecourses.nptel.ac.in/noc22_mg105/preview</a>
73	noc22-mg106	Management	Decision Modeling	Prof. Biswajit Mahanty	IITKG P	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg106/preview">https://onlinecourses.nptel.ac.in/noc22_mg106/preview</a>
74	noc22-mg107	Management	Strategic Sales Management	Prof. Sourabh Arora; Prof. Kalpak Kulkarni	IITR	8 Weeks	Aug 22, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg107/preview">https://onlinecourses.nptel.ac.in/noc22_mg107/preview</a>
75	noc22-mg108	Management	Human Factors Engineering	Prof. Pradip Kumar Ray Prof. Virendra Kumar Tewari	IITKG P	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg108/preview">https://onlinecourses.nptel.ac.in/noc22_mg108/preview</a>
76	noc22-mg109	Management	Introduction to Marketing Essentials	Prof. Zillur Rahman	IITR	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg109/preview">https://onlinecourses.nptel.ac.in/noc22_mg109/preview</a>
77	noc22-mg111	Management	Stress Management	Prof. Rajlakshmi Guha	IITKG P	4 Weeks	Aug 22, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg111/preview">https://onlinecourses.nptel.ac.in/noc22_mg111/preview</a>
78	noc22-mg112	Management	Econometric Modelling	Prof. Sujata Kar	IITR	8 Weeks	Jul 25, 2022	Sep 16, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg112/preview">https://onlinecourses.nptel.ac.in/noc22_mg112/preview</a>
79	noc22-mg113	Management	Security Analysis & Portfolio Management	Prof. J. P. Singh	IITR	12 Weeks	Jul 25, 2022	Oct 14, 2022	<a href="https://onlinecourses.nptel.ac.in/noc22_mg113/preview">https://onlinecourses.nptel.ac.in/noc22_mg113/preview</a>