



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 – January – July 2022

Note: Students are requested to go through the **exam dates** while selecting the courses., viz.,

not more than **TWO** courses per day (includes morning and afternoon sessions) on
March 27, 2022,
April 23, 2022, and
April 24, 2022.

Exam Dates: 27 March 2022 (Sunday); 23 & 24 April 2022 (Saturday and Sunday) - 2 Sessions on each date : 9am- 12 noon; 2pm-5pm

TIMELINE	4 Weeks (SET 1)	8 Weeks (SET 1)	12 Weeks	4 Weeks (SET 2)	8 Weeks (SET 2)
Start of Course	Jan 24, 2022	Jan 24, 2022	Jan 24, 2022	Feb 21, 2022	Feb 21, 2022
End of Course	Feb 18, 2022	March 18, 2022	April 15, 2022	March 18, 2022	April 15, 2022
Exam Dates	March 27, 2022 - 2 Sessions on each date - 9am-12 noon; 2pm-5pm		April 23/24, 2022 - 2 Sessions on each date - 9am-12 noon; 2pm-5pm		
Open enrollment to the Course: November 12, 2021					

Table #	Stream	# Courses
Table 1	Core ECE Stream	32
Table 2	CSE Discipline (Interdisciplinary)	37
Table 3	Mechanical Discipline, Aerospace Engineering, Metallurgical and Materials Engineering (Interdisciplinary)	42
Table 4	Agriculture Engineering, Biotechnology and Bioengineering, Chemistry, Chemical Engineering, Civil Engineering, Civil Engg, Rural Development, Earth Science, Geology, Design Engineering, Mathematics, Physics, Textile Engineering (Interdisciplinary addressing cutting edge technologies, environmental, etc.)	74
Table 5	Humanities and Social Sciences, Management, Multidisciplinary (addresses economics and others that kindles research activities, start-ups, entrepreneurial activities etc.)	80
	Total Number of Courses	265

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

Sl. No	Course Id	Discipline	Course Name	SME Name	Institute	Duration	Start date	Exam date	Enrollment End date	Click here to join the course
1	noc22-ee23	Electrical & Electronics Engineering	Nonlinear and Adaptive Control	Prof. Shubhendu Bhasin	IITD	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee23/preview
2	noc22-ee36	Electrical & Electronics Engineering	A brief introduction of Micro - Sensors	Prof. Santanu Talukder	IISER	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee36/preview
3	noc22-ee14	Electrical & Electronics Engineering	Microwave Integrated Circuits	Prof. Jayanta Mukherjee	IITB	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee14/preview
4	noc22-ee24	Electrical & Electronics Engineering	Optimal control	Prof. Barjeev Tyagi	IITR	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee24/preview
5	noc22-ee25	Electrical & Electronics Engineering	Electronics equipment integration and Prototype building Prof. N.V Chalapathi Rao		IISc	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee25/preview
6	noc22-ee46	Electrical & Electronics Engineering	Digital Protection of Power System	Prof. Bhavesh kumar R. Bhalja	IITR	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee46/preview
7	noc22-ee52	Electrical & Electronics Engineering	Basic Building Blocks of Microwave Engineering & Design Principles of RF And Microwave Filters And Amplifiers Prof. Amitabha Bhattacharya		IITK GP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee52/preview
8	noc22-ee65	Electrical & Electronics Engineering	Fundamentals of MIMO Wireless Communication Prof. Suvera Sekhar Das		IITK GP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee65/preview
9	noc22-ee26	Electrical & Electronics Engineering	Electronics Enclosures Thermal issues	Prof. N.V Chalapathi Rao	IISc	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ee26/preview

10	noc22-ee33	Electrical & Electronics Engineering	Design of Power Electronic Converters Prof. Shabari Nath	IITG	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ee33/preview	
11	noc22-ee56	Electrical & Electronics Engineering	Evolution Of Air Interface Towards 5G	Prof. Suvra Sekhar Das	IITK GP	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ee56/preview
12	noc22-ee19	Electrical & Electronics Engineering	Biomedical Signal Processing	Prof. Sudipta Mukhopadhyay	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee19/preview
13	noc22-ee21	Electrical & Electronics Engineering	Fuzzy Sets, Logic and Systems & Applications	Prof. Nishchal Kumar Verma	IITK	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee21/preview
14	noc22-ee32	Electrical & Electronics Engineering	Multirate DSP	Prof. R. David Koilpillai	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee32/preview
15	noc22-ee47	Electrical & Electronics Engineering	Physics of Nanoscale Devices	Prof. Vishvendra Singh Poonia	IITR	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee47/preview
16	noc22-ee48	Electrical & Electronics Engineering	Computer Vision and Image Processing Fundamentals and Applications Prof. M. K. Bhuyan	IITG	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee48/preview	
17	noc22-ee51	Electrical & Electronics Engineering	Photonic integrated circuit	Prof. Shankar Kumar Selvaraja	IISC	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee51/preview
18	noc22-ee60	Electrical and Electronics Engineering	Statistical Signal Processing	Prof. Prabin Kumar Bora	IITG	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee60/preview
19	noc22-ee02	Electrical & Electronics Engineering	Applied Linear Algebra	Prof. Andrew Thangaraj	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee02/preview
20	noc22-ee53	Electrical & Electronics Engineering	Electric Vehicles - Part 1	Prof. Amit Jain	IITD	4 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ee53/preview

21	noc22-ee64	Electrical & Electronics Engineering	Medical Image Analysis	Prof. Debdoot Sheet	IITK GP	4 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ee64/preview
22	noc22-ee57	Electrical & Electronics Engineering	VLSI Signal Processing	Prof. Mrityunjay Chakraborty	IITK GP	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ee57/preview
23	noc22-ee20	Electrical & Electronics Engineering	Spread Spectrum Communications and Jamming Prof. Debarati Sen		IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee20/preview
24	noc22-ee34	Electrical & Electronics Engineering	Circuit Analysis for Analog Designers	Prof. Shanthi Pavan	IIT M	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee34/preview
25	noc22-ee54	Electrical & Electronics Engineering	Deep Learning for Visual Computing	Prof. Debdoot Sheet	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee54/preview
26	noc22-ee59	Electrical & Electronics Engineering	Biophotonics	Prof. Basudev Lahiri	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee59/preview
27	noc22-ee61	Electrical & Electronics Engineering	Communication Networks	Prof. Goutam Das	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee61/preview
28	noc22-ee67	Electrical & Electronics Engineering	Optical Fiber Sensors	Prof Balaji Srinivasan	IIT M	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee67/preview
29	noc22-ee41	Electrical and Electronics Engineering	Power Management Integrated Circuits	Prof. Qadeer Ahmad Khan	IIT M	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee41/preview
30	noc22-ee38	Electrical and Electronics Engineering	Digital IC Design	Prof. Janakiraman	IIT M	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee38/preview
31	noc22-ee37	Electrical and Electronics Engineering	Analog Ic Design	Prof. Aniruddhan.S	IIT M	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee37/preview

32	noc22-ee50	Electrical and Electronics Engineering	Sensors and Actuators	Prof. Hardik Jeetendra Pandya	IISc	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ee50/preview
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Table 2. List of certifiable courses approved for earning the extra credits by ECE Students under CSE Discipline (Interdisciplinary)

Sl. No	Course Id	Discipline	Course Name	SME Name	Institute	Duration	Start date	Exam date	Enrollment End date	Click here to join the course
1	noc22-cs12	Computer Science and Engineering	Software Testing	Prof. Rajib Mall	IITKGP	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs12/preview
2	noc22-cs32	Computer Science and Engineering	Python for Data Science	Prof. Ragunathan Rengasamy	IITM	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs32/preview
3	noc22-cs06	Computer Science and Engineering	AI: Constraint Satisfaction	Prof. Deepak Khemani	IITM	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs06/preview
4	noc22-cs16	Computer Science and Engineering	User-centric Computing for Human-Computer Interaction	Prof. Samit Bhattacharya	IITG	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs16/preview
5	noc22-cs18	Computer Science and Engineering	Cloud Computing and Distributed Systems	Prof. Rajiv Misra	IIT Patna	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs18/preview
6	noc22-cs23	Computer Science and Engineering	Information Security - 5 - Secure Systems Engineering	Prof. Chester Robeiro	IITM	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs23/preview

7	noc22-cs26	Computer Science and Engineering	Programming, Data Structures & Algorithms Using Python	Prof. Madhavan Mukund	CMI	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs26/preview
8	noc22-cs27	Computer Science and Engineering	Design and analysis of algorithms	Prof. Madhavan Mukund	CMI	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs27/preview
9	noc22-cs28	Computer Science and Engineering	Data Science for Engineers	Prof. Ragunathan Rengasamy	IITM	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs28/preview
10	noc22-cs38	Computer Science and Engineering	Design and Engineering of Computer Systems	Prof. Mythili Vutukuru	IITB	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs38/preview
11	noc22-cs51	Computer Science and Engineering	Data Base Management System	Prof. Partha Pratim Das	IITK GP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs51/preview
12	noc22-cs54	Computer Science and Engineering	Introduction To Soft Computing	Prof. Debasis Samanta	IITK GP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs54/preview
13	noc22-cs11	Computer Science and Engineering	Data Mining	Prof. Pabitra Mitra	IITK GP	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_cs11/preview
14	noc22-cs02	Computer Science and Engineering	Artificial Intelligence: Knowledge Representation And Reasoning	Prof. Deepak Khemani	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs02/preview
15	noc22-cs08	Computer Science and Engineering	Data Analytics with Python	Prof. A. Ramesh	IITR	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs08/preview
16	noc22-cs13	Computer Science and Engineering	Ethical Hacking	Prof. Indranil Sengupta	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs13/preview

17	noc22-cs19	Computer Science and Engineering	Computer Networks and Internet Protocol	Prof. Soumya Kanti Ghosh	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs19/preview
18	noc22-cs22	Computer Science and Engineering	Deep Learning	Prof. Prabir Kumar Biswas	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs22/preview
19	noc22-cs25	Computer Science and Engineering	Model Checking	Prof. Srivathsan.B	CMI	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs25/preview
20	noc22-cs34	Computer Science and Engineering	Reinforcement Learning	Prof. Balaraman Ravindran	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs34/preview
21	noc22-cs37	Computer Science and Engineering	Online Privacy	Prof. Ponnurangam Kumaraguru	IIITH	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs37/preview
22	noc22-cs44	Computer Science and Engineering	Blockchain and its Applications	Prof. Sandip Chakraborty	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs44/preview
23	noc22-cs55	Computer Science and Engineering	Object Oriented System Development Using UML, Java And Patterns	Prof. Rajib Mall	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs55/preview
24	noc22-cs57	Computer Science and Engineering	Introduction to Database Systems	Prof. Sreenivasa Kumar	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs57/preview
25	noc22-cs01	Computer Science and Engineering	Fundamental Algorithms: Design and Analysis	Prof. Sourav Mukhopadhyay	IITK GP	4 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_cs01/preview
26	noc22-cs20	Computer Science and Engineering	Cloud computing	Prof. Soumya Kanti Ghosh	IITK GP	8 + 4 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs20/preview

27	noc22-cs10	Computer Science and Engineering	Advanced Computer Architecture	Prof. John Jose	IITG	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_cs10/preview
28	noc22-cs24	Computer Science and Engineering	Machine Learning, ML	Prof. Carl Gustaf Jansson KTH Royal Institute of Technology Sweden		8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_cs24/preview
29	noc22-cs09	Computer Science and Engineering	GPU Architectures and Programming	Prof. Soumyajit Dey	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs09/preview
30	noc22-cs29	Computer Science and Engineering	Introduction to Machine Learning	Prof. Balaraman Ravindran	IITM	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs29/preview
31	noc22-cs30	Computer Science and Engineering	Social Networks	Prof. Sudarshan Iyengar	IIT Rop ar	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs30/preview
32	noc22-cs35	Computer Science and Engineering	Deep Learning - IIT Rop ar	IIT Rop ar		12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs35/preview
33	noc22-cs47	Computer Science and Engineering	Programming In Java	Prof. Debasis Samanta	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs47/preview
34	noc22-cs48	Computer Science and Engineering	Hardware Security	Prof. Debdeep Mukhopadhyay	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs48/preview
35	noc22-cs52	Computer Science and Engineering	Introduction To Industry 4.0 And Industrial Internet Of Things	Prof. Sudip Misra	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs52/preview
36	noc22-cs56	Computer Science and Engineering	An Introduction to Artificial Intelligence	Prof. Mausam	IITD	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs56/preview
37	noc22-cs50	Computer Science and Engineering	VLSI Physical Design	Prof. Indranil Sengupta	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cs50/preview

**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)**

Sl. No.	Course Id	Discipline	Course Name	SME Name	Institute	Duration	Start date	Exam date	Enrollment End date	Click here to join the course
1	noc22-me50	Mechanical Engineering	Manufacturing Automation	Prof. Sounak Kumar Choudhury	IITK	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me50/preview
2	noc22-me01	Mechanical Engineering	Acoustic Materials and Metamaterials	Prof. Sneha Singh	IITR	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me01/preview
3	noc22-me05	Mechanical Engineering	Robotics and Control : Theory and Practice Prof. N. Sukavanam		IITR	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me05/preview
4	noc22-me12	Mechanical Engineering	Automatic Control	Prof. Anil Kumar	IITR	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me12/preview
5	noc22-me18	Mechanical Engineering	Modelling and Simulation of Dynamic Systems	Prof. Pushparaj Mani Pathak	IITR	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me18/preview
6	noc22-me19	Mechanical Engineering	Fundamental of Welding Science and Technology	Prof. Pankaj Biswas	IITG	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me19/preview
7	noc22-me20	Mechanical Engineering	Introduction to Abrasive Machining and Finishing Processes Prof. Mamilla Ravi Sankar		IIT Tirupati	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me20/preview
8	noc22-me22	Mechanical Engineering	Traditional And Non-Traditional Optimization Tools Prof. Dilip Kumar Pratihari		IITK GP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me22/preview
9	noc22-me38	Mechanical Engineering	Wheeled Mobile Robots	Prof. Asokan Thondiyath	IITM	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me38/preview
10	noc22-me58	Mechanical Engineering	Tools in Scientific Computing	Prof. Aditya Bandopadhyay	IITK GP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me58/preview

11	noc22-me61	Mechanical Engineering	Electronic Packaging and Manufacturing	Prof. Anandaroop Bhattacharya	IITK GP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me61/preview
12	noc22-mm08	Metallurgical and Materials Engineering	Solar Photovoltaics: Principles, Technologies & Materials Prof. Ashish Garg		IITK	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mm08/preview
13	noc22-mm11	Metallurgical and Materials Engineering	Fundamentals Of Electronic Materials And Devices	Prof. Parasuraman Swaminathan	IITM	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mm11/preview
14	noc22-mm17	Metallurgical and Materials Engineering	Corrosion - Part I	Prof. Kallol Mondal	IITK	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mm17/preview
15	noc22-me54	Mechanical Engineering	Mechatronics	Prof. Pushparaj Mani Pathak	IITR	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me54/preview
16	noc22-ae02	Aerospace Engineering	Introduction to Experiments in Flight	Prof. A.K.Ghosh	IITK	4 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ae02/preview
17	noc22-me53	Mechanical Engineering	Inspection and Quality Control in Manufacturing Prof. Kaushik Pal		IITR	4 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_me53/preview
18	noc22-ae04	Aerospace engineering	Computational Science in Engineering	Prof. Ashoke De	IITK	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ae04/preview
19	noc22-mm18	Metallurgical and Materials Engineering	Scanning Electron / Ion / Probe Microscopy in Materials Characterization Prof. Debabrata Pradhan		IITK GP	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_mm18/preview
20	noc22-me11	Mechanical Engineering	Product Design and Manufacturing	Prof. J.Ramkumar	IITK	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me11/preview
21	noc22-me32	Mechanical Engineering	Applied Ergonomics	Prof. Shantanu Bhattacharya	IITK	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me32/preview
22	noc22-me35	Mechanical Engineering	Fundamentals of Combustion	Prof. V. Raghavan	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me35/preview

23	noc22-me36	Mechanical Engineering	Oil Hydraulics and Pneumatics	Prof. Somashekhar S	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me36/preview
24	noc22-me39	Mechanical Engineering	Robotics: Basics and Selected Advanced Concepts Prof. Ashitava Ghosal		IISc	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me39/preview
25	noc22-me59	Mechanical Engineering	Industrial Automation and Control	Prof. Alokanti Deb	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me59/preview
26	noc22-ae01	Aerospace Engineering	Aircraft Design	Prof. A.K.Ghosh	IITK	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ae01/preview
27	noc22-ae07	Aerospace engineering	Lighter than Air Systems	Prof. Rajkumar S. Pant	IITB	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ae07/preview
28	noc22-ae08	Aerospace Engineering	Satellite Attitude Dynamics and Control Prof. Manoranjan Sinha		IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ae08/preview
29	noc22-ae09	Aerodynamics, Aerospace	Fundamentals of Theoretical and Experimental Aerodynamics Prof. Arnab Roy		IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ae09/preview
30	noc22-me17	Mechanical Engineering	Smart Materials and Intelligent System Design	Prof. Bishakh Bhattacharya	IITK	4 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_me17/preview
31	noc22-me07	Mechanical Engineering	Steam and Gas Power Systems	Prof. Ravi Kumar	IITR	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_me07/preview
32	noc22-me16	Mechanical Engineering	Nature and Properties of Materials	Prof. Bishakh Bhattacharya	IITK	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_me16/preview
33	noc22-me56	Mechanical Engineering	Manufacturing Guidelines for Product Design	Prof. Inderdeep Singh	IITR	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_me56/preview
34	noc22-me04	Mechanical Engineering	Principles of Industrial Engineering	Prof. D. K. Dwivedi	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me04/preview
35	noc22-me15	Mechanical Engineering	Fundamentals of Nuclear Power Generation Prof. Dipankar N.Basu		IITG	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me15/preview

36	noc22-me26	Mechanical Engineering	Vibrations Of Structures	Prof. Anirvan Dasgupta	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me26/preview
37	noc22-me34	Mechanical Engineering	Sound and Structural Vibration	Prof. Venkata R. Sonti	IISc	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me34/preview
38	noc22-me37	Mechanical Engineering	Explosions and Safety	Prof. K. Ramamurthi	IITM	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me37/preview
39	noc22-me52	Mechanical Engineering	Noise Management & Control	Prof. Nachiketa Tiwari	IITK	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me52/preview
40	noc22-me55	Mechanical Engineering	Operations Management	Prof. Inderdeep Singh	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me55/preview
41	noc22-me60	Mechanical Engineering	Machinery Fault Diagnosis and Signal Processing Prof. Amiya Ranjan Mohanty		IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_me60/preview
42	noc22-mm07	Metallurgical and Materials Engineering	Dealing with materials data : collection, analysis and interpretation Prof. M P Gururajan		IITB	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mm07/preview

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

Sl. No.	Course Id	Discipline	Course Name	SME Name	Institute	Duration	Start date	Exam date	Enrollment End date	Click here to join the course
1	noc22-ph01	Physics	Optical Sensors	Prof. Sachin Kumar Srivastava	IITR	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ph01/preview
2	noc22-ph08	Physics	A brief course on Superconductivity Prof. Saurabh Basu		IITG	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ph08/preview
3	noc22-bt06	Biotechnology and Bio-engineering	Introduction to Professional Scientific Communication Prof. S. Ganesh		IITK	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_bt06/preview
4	noc22-cy01	Chemistry	Organometallic Chemistry	Prof. Debabrata Maiti	IITB	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cy01/preview
5	noc22-ce17	Civil Engineering	Electronic Waste Management - Issues And Challenges	Prof. Brajesh Kumar Dubey	IITK GP	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce17/preview
6	noc22-ce49	Civil Engineering	Introduction to Lean Construction (Module 1 - Lean Basics)	Prof. Koshy Varghese Prof. N Raghavan	IITM	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce49/preview
7	noc22-ma10	Mathematics	Graph Theory	Prof. Soumen Maity	IISER Pune	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma10/preview
8	noc22-ma11	Mathematics	Introduction To Rings And Fields	Prof. Krishna Hanumanthu	CMI	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma11/preview
9	noc22-ma12	Mathematics	Introduction to Galois Theory	Prof. Krishna Hanumanthu	CMI	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma12/preview

10	noc22 - ma29	Mathematics	Statistical Inference	Prof. Niladri Chatterjee	IITD	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma29/preview
11	noc22 - ma26	Mathematics	Probability and Stochastics for Finance	Prof. Joydeep Dutta	IITK	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma26/preview
12	noc22 - ag04	Agriculture Engineering	Instrumentation and Process Control in Food Industry	Prof. Ashis Kumar Datta	IITK GP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ag04/preview
13	noc22 - bt13	Biotechnology and Bio-engineering	Biostatistics and Design of experiments	Prof. Mukesh Doble	IITM	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_bt13/preview
14	noc22 - ch05	Chemical Engineering	Waste to Energy Conversion	Prof. P. Mondal	IITR	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ch05/preview
15	noc22 - ch17	Chemical Engineering	Electrochemical Technology in Pollution Control	Prof. J. R. Mudakavi	IISc	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ch17/preview
16	noc22 - cy29	Chemistry	Basics Of Fluorescence Spectroscopy	Prof. Pratik Sen	IITK	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cy29/preview
17	noc22 - ce42	Civil Engineering	Introduction to Civil Engineering Profession	Prof. Ravindra Gettu Prof. Subhadeep Banerjee	IITM	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce42/preview
18	noc22 - ce43	Civil Engineering	Natural Hazards	Prof. Javed N. Malik	IITK	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce43/preview
19	noc22 - ma20	Mathematics	Mathematical Modelling: Analysis and Applications	Prof. Ameeya Kumar Nayak	IITR	4 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ma20/preview
20	noc22 - ma37	Mathematics	Mathematical Methods in Physics 1	Prof. Auditya Sharma	IISER Bhopal	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ma37/preview

21	noc22-ph12	Physics	Physics through Computational Thinking	Prof. Auditya Sharma	IISER Bhopal	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ph12/preview
22	noc22-ph18	Physics	Nuclear Astrophysics	Prof. Anil Kumar Gourishetty	IITR	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ph18/preview
23	noc22-bt20	Biotechnology and Bio-engineering	Data Analysis for Biologists	Prof. Biplab Bose	IITG	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_bt20/preview
24	noc22-ce39	Civil Engineering	Safety in Construction	Prof. J. Uma Maheswari	IITD	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ce39/preview
25	noc22-ch27	Chemical Engineering	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	Prof. Vaibhav Vasant Goud Prof. R. Anandalakshmi	IITG	8 Weeks + 4 Weeks (New)	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ch27/preview
26	noc22-ma34	Mathematics	Essentials Of Data Science With R Software - 1: Probability And Statistical Inference Prof. Shalabh		IITK	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma34/preview
27	noc22-ph10	Physics	Introduction to Atmospheric and Space Sciences	Prof. M V Sunil Krishna	IITR	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ph10/preview
28	noc22-ph19	Physics	Introduction to Laser	Prof. M R Shenoy	IITD	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ph19/preview
29	noc22-ph20	Physics	Physics of linear and nonlinear optical waveguides	Prof. Samudra Roy	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ph20/preview
30	noc22-te01	Textile Engineering	Evaluation of Textiles Materials	Prof. Apurba Das	IITD	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_te01/preview
31	noc22-ag02	Agriculture Engineering	Soil Science and Technology	Prof. Somsubhra Chakraborty	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ag02/preview

32	noc22-ag03	Agriculture Engineering	Novel Technologies for Food Processing and Shelf-Life Extension	Prof. Hari Niwas Mishra	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ag03/preview
33	noc22-ag05	Agriculture Engineering	Machine Learning For Soil And Crop Management	Prof. Somsubhra Chakraborty	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ag05/preview
34	noc22-bt05	Biotechnology and Bio-engineering	Optical Spectroscopy and Microscopy : Fundamentals of optical measurements and instrumentation Prof. Balaji Jayaprakash		IISc	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_bt05/preview
35	noc22-ch25	Chemical Engineering	Physico-chemical processes for wastewater treatment	Prof. Vimal Chandra Srivastava	IITR	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ch25/preview
36	noc22-ch29	Chemical Engineering	Process Equipment Design	Prof. Shabina Khanam	IITR	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ch29/preview
37	noc22-ch37	Chemical Engineering	Aspen Plus® simulation software - a basic course for beginners	Prof. Prabirkumar Saha	IITG	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ch37/preview
38	noc22-cy09	Chemistry	Ultrafast laser spectroscopy	Prof. Anindya Datta	IITB	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cy09/preview
39	noc22-cy16	Chemistry	Electrochemical impedance Spectroscopy	Prof. S. Ramanathan	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cy16/preview
40	noc22-de02	Design Engineering	Fundamentals of Automotive Systems	Prof. C. S. Shankar Ram	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_de02/preview

41	noc22-de08	Design Engineering	Understanding Incubation and Entrepreneurship Prof. B.K. Chakravarthy	IITB	12 weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_de08/preview
42	noc22-ce12	Civil Engineering	Maintenance and Repair of Concrete Structures Prof. Radhakrishna G. Pillai	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce12/preview
43	noc22-ce13	Civil Engineering	Modern Construction Materials Prof. Ravindra Gettu	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce13/preview
44	noc22-ce23	Civil Engineering	Microwave Remote Sensing in Hydrology Prof. J. Indu	IITB	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce23/preview
45	noc22-ce26	Civil Engineering	Geographic Information Systems Prof. Arun K. Saraf	IITR	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce26/preview
46	noc22-ce41	Civil Engineering	Traffic Engineering Prof. Bhargab Maitra	IITK GP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce41/preview
47	noc22-ce45	Civil Engg, Rural Development, Earth Science, Geology	Rural Water Resources Management Prof. Pennan Chinnasamy	IITB	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce45/preview
48	noc22-bt25	Biotechnology and Bio-engineering	Nanotechnology In Agriculture Prof. Mainak Das	IITK	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_bt25/preview
49	noc22-ma09	Mathematics	Applied Multivariate Statistical Modeling Prof. Jhareswar Maiti	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma09/preview
50	noc22-ma17	Mathematics	Introduction to Queueing Theory Prof. N. Selvaraju	IITG	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma17/preview
51	noc22-ma01	Mathematics	Algebraic Combinatorics Prof. Amritanshu Prasad Prof. Sankaran Viswanath	IMSc	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma01/preview

52	noc22 - ma27	Mathematics	Probability –I with Examples Using R	Prof. Siva Athreya	ISI Bangalore	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma27/preview
53	noc22 - ma30	Mathematics	Advanced Probability Theory	Prof. Niladri Chatterjee	IITD	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma30/preview
54	noc22 - ma31	Mathematics	Scientific Computing using Matlab	Prof. Mani Mehra Prof. Vivek Kumar Aggarwal	IITD	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma31/preview
55	noc22 - ma35	Mathematics	Essentials Of Data Science With R Software - 2: Sampling Theory And Linear Regression Analysis Prof. Shalabh		IITK	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma35/preview
56	noc22 - ma36	Mathematics	An invitation to Topology	Prof. Indrava Roy	IMSc	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ma36/preview
57	noc22 -ph13	Physics	Advanced Atmospheric Physics	Prof. M V Sunil Krishna	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ph13/preview
58	noc22 -ph14	Physics, Chemistry	Advanced NMR Techniques in Solution and Solid-State	Prof. N. Suryaprakash	IISc	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ph14/preview
59	noc22 -ph15	Physics, Multidisciplinary	Quantum Technology and Quantum Phenomena in Macroscopic Systems	Prof. Amarendra Kumar Sarma	IITG	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ph15/preview
60	noc22 -ag01	Agriculture Engineering	Soil And Water Conservation Engineering	Prof. Rajendra Singh	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ag01/preview
61	noc22 -ch06	Chemical Engineering	Transport phenomena	Prof. Sunando DasGupta	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ch06/preview

62	noc22-ch21	Chemical Engineering	Process Control - Design, Analysis and Assessment	Prof. Ragunathan Rengasamy	IITM	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ch21/preview
63	noc22-ch33	Chemical Engineering	Environmental Quality Monitoring & Analysis. Prof. Ravi Krishna R		IITM	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ch33/preview
64	noc22-ch35	Chemical Engineering	Chemical Process Instrumentation	Prof. Debasis Sarkar	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ch35/preview
65	noc22-cy10	Chemistry	Molecular Spectroscopy: A Physical Chemist's perspective Prof. Anindya Datta		IITB	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cy10/preview
66	noc22-cy23	Chemistry	Fundamentals of Spectroscopy Prof. Sayan Bagchi Prof. Anirban Hazra, NCL PuneIISER Pune			12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_cy23/preview
67	noc22-ce07	Civil Engineering	Water Supply Engineering	Prof. Manoj Kumar Tiwari	IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce07/preview
68	noc22-ce10	Civil Engineering	Remote Sensing Essentials	Prof. Arun K. Saraf	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce10/preview
69	noc22-ce22	Civil Engineering	Air pollution and Control	Prof. Bhola Ram Gurjar	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce22/preview
70	noc22-ce24	Civil Engineering	Remote Sensing: Principles and Applications	Prof. Eswar Rajasekaran	IITB	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce24/preview
71	noc22-ce27	Civil Engineering	Water and waste water treatment	Prof. Bhanu Prakash Vellanki	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce27/preview
72	noc22-ce34	Civil Engineering	Urban Transportation Systems Planning. Prof. Bhargab Maitra		IITK GP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce34/preview
73	noc22-ce40	Civil Engineering	Basic construction materials Prof. Manu Santhanam Prof. Radha krishna G. Pillai		IITM	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce40/preview
74	noc22-ce44	Civil Engg, Rural Development, Earth Science, Geology	Groundwater hydrology and management	Prof. Pennan Chinnasamy	IITB	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ce44/preview

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

Sl. No.	Course Id	Discipline	Course Name	SME Name	Institute	Duration	Start date	Exam date	Enrollment End date	Click here to join the course
1	noc22-hs04	Humanities and Social Sciences	Patent Drafting for Beginners	Prof. Feroz Ali	IITM	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs04/preview
2	noc22-hs05	Humanities and Social Sciences	Effective Writing	Prof. Binod Mishra	IITR	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs05/preview
3	noc22-hs50	Humanities and Social Sciences	Towards an Ethical Digital Society: From Theory to Practice	Prof. Bidisha Chaudhuri	IIT Bangalore	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs50/preview
4	noc22-mg36	Management	Technology Forecasting for strategic decision making - An Introduction	Prof. Dmitry Kucharavy Prof. Bala Ramadurai EM Strasbourg Business School (University of Strasbourg) and IITM		4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg36/preview
5	noc22-mg04	Management	Management of Field Sales	Prof. Jayanta Chatterjee	IITK	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg04/preview
6	noc22-mg44	Management	Services Marketing: A Practical Approach	Prof. Biplab Datta	IITKGP	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg44/preview
7	noc22-mg56	Management	Leadership	Prof. Tuheena Mukherjee Prof. Kalyan Chakravarti	IITKGP	4 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg56/preview
8	noc22-hs07	Humanities and Social Sciences	Soft Skill Development	Prof. Priyadarshi Patnaik Prof. V.N. Giri Prof. D. Suar	IITKGP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs07/preview

9	noc22-hs11	Humanities and Social Sciences	Emotional Intelligence	Prof. Rabindra Kumar Pradhan	IITKGP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs11/preview
10	noc22-hs13	Humanities and Social Sciences	Speaking Effectively	Prof. Anjali Gera Roy	IITKGP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs13/preview
11	noc22-hs16	Humanities and Social Sciences	Economic Growth and Development	Prof. Rajshree Bedamatta	IITG	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs16/preview
12	noc22-hs33	Humanities and Social Sciences	English Literature for competitive exams	Prof. Aysha Iqbal	IITM	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs33/preview
13	noc22-hs44	Humanities and Social Sciences	Phonetics and Phonology: A broad overview	Prof. Shakuntala Mahanta	IITG	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs44/preview
14	noc22-hs64	Humanities and Social Sciences	Infrastructure Economics	Prof. Nalin Bharti	IIT Patna	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs64/preview
15	noc22-hs69	Humanities and Social Sciences	Indian Economy: Some Contemporary Perspectives	Prof. Wasim Ahmad	IITK	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs69/preview
16	noc22-mg14	Management	Supply Chain Analytics	Prof. Rajat Agrawal	IITR	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg14/preview
17	noc22-mg18	Management	Simulation of Business Systems: An Applied Approach	Prof. Deepu Philip	IITK	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg18/preview
18	noc22-mg19	Management	Systems Engineering: Theory & Practice	Prof. Deepu Philip	IITK	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg19/preview
19	noc22-mg29	Management	Integrated Marketing Management	Prof. R. Srinivasan	IISc	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg29/preview

20	noc22-mg41	Management	Organization Theory/Structure and Design	Prof. Zillur Rahman	IITR	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg41/preview
21	noc22-mg43	Management	Foundation Course in Managerial Economics	Prof. Barnali Nag	IITKGP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg43/preview
22	noc22-mg47	Management	Consumer Behaviour	Prof. Srabanti Mukherjee	IITKGP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg47/preview
23	noc22-mg51	Management	Retail Management	Prof. Swagato Chatterjee	IITKGP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg51/preview
24	noc22-mg52	Management	Business Law for Managers	Prof. S. Srinivasan Prof. Kaushik Mukherjee	IITKGP	8 Weeks	24-Jan-22	27-Mar-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg52/preview
25	noc22-mg10	Management	MCDM Techniques Using R	Prof. Gaurav Dixit	IITR	4 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_mg10/preview
26	noc22-mg32	Management	Design Thinking - A Primer Prof. Ashwin Mahalingam Prof. Bala Ramadurai		IITM	4 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_mg32/preview
27	noc22-ge15	Multidisciplinary	Introduction to Research	Prof. Edamana Prasad Prof. Prathap Haridoss	IITM	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ge15/preview
28	noc22-hs34	Humanities and Social Sciences	Technical English for Engineers	Prof. Aysha Iqbal	IITM	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_hs34/preview
29	noc22-mg05	Management	Marketing Management - II Prof. Jayanta Chatterjee Prof. Shashi Shekhar Mishra		IITK	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_mg05/preview
30	noc22-mg46	Management	Sales And Distribution Management	Prof. Sangeeta Sahney	IITKGP	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_mg46/preview
31	noc22-mg53	Management	Strategic Performance Management	Prof. Kbl Srivastava	IITKGP	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_mg53/preview

32	noc22-mg54	Management	Ethics In Engineering Practice	Prof. Susmita Mukhopadhyay	IITKGP	8 Weeks	21-Feb-22	23-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_mg54/preview
33	noc22-ge03	Multidisciplinary	Entrepreneurship Essentials	Prof. Manoj Kumar Mondal	IITKGP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ge03/preview
34	noc22-ge08	Multidisciplinary	Research Methodology	Prof. Soumitro Banerjee	IISER Kolkata	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ge08/preview
35	noc22-hs29	Humanities and Social Sciences	Patent Law for Engineers and Scientists	Prof. Feroz Ali	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs29/preview
36	noc22-hs31	Humanities and Social Sciences	German - II	Prof. Milind Brahme	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs31/preview
37	noc22-hs38	Humanities and Social Sciences	Globalization: Theoretical Perspectives	Prof. R. Santhosh	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs38/preview
38	noc22-hs32	Humanities and Social Sciences	German - III	Prof. Milind Brahme	IITM	12 weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs32/preview
39	noc22-hs43	Humanities and Social Sciences	Energy Resources, Economics and Environment	Prof. Rangan Banerjee	IITB	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs43/preview
40	noc22-hs61	Humanities and Social Sciences	Education for Sustainable Development	Prof. Atasi Mohanty	IITKGP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs61/preview
41	noc22-mg02	Management	Data Analysis and Decision Making - I	Prof. Raghu Nandan Sengupta	IITK	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg02/preview
42	noc22-mg03	Management	Data Analysis & Decision Making - II	Prof. Raghu Nandan Sengupta	IITK	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg03/preview
43	noc22-mg07	Management	Financial Statement Analysis and Reporting	Prof. Anil K. Sharma	IITR	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg07/preview
44	noc22-mg12	Management	Engineering Econometrics	Prof. Rudra P Pradhan	IITKGP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg12/preview

45	noc22-mg13	Management	Microeconomics: Theory & Applications	Prof. Deep Mukherjee	IITK	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg13/preview
46	noc22-mg15	Management	Production and Operation Management	Prof. Rajat Agrawal	IITR	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg15/preview
47	noc22-mg21	Management	Introduction to Stochastic Processes	Prof. Manjesh hanawal	IITB	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg21/preview
48	noc22-mg25	Management	Business Statistics	Prof. Mukesh Kumar Barua	IITR	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg25/preview
49	noc22-mg37	Management	Leadership for India Inc: Practical Concepts and Constructs	Prof. C Bhaktavatsala Rao	IITM	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg37/preview
50	noc22-mg45	Management	E-Business	Prof. Mamata Jenamani	IITKGP	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg45/preview
51	noc22-mg49	Management	Talent Acquisition and Management	Prof. Santosh Rangnekar	IITR	12 Weeks	24-Jan-22	23-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg49/preview
52	noc22-hs40	Humanities and Social Sciences	Exploring Survey Data on Health Care	Prof. Pratap C. Mohanty	IITR	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_hs40/preview
53	noc22-ge04	Multidisciplinary	Fuzzy Logic and Neural Networks	Prof. Dilip Kumar Pratihari	IITKGP	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_ge04/preview
54	noc22-hs08	Humanities and Social Sciences	Enhancing Soft Skills and Personality	Prof. T. Ravichandran	IITK	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_hs08/preview
55	noc22-hs49	Humanities and Social Sciences	Introduction On Intellectual Property To Engineers And Technologists Prof. Tapas Kumar Bandyopadhyay		IITKGP	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_hs49/preview
56	noc22-mg28	Management	Global Marketing Management	Prof. Zillur Rahman	IITR	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_mg28/preview
57	noc22-mg30	Management	Introduction to Operations Research	Prof. G. Srinivasan	IITM	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_mg30/preview

58	noc22-mg40	Management	Quality Control and Improvement with MINITAB	Prof. Indrajit Mukherjee	IITB	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_mg40/preview
59	noc22-mg50	Management	International Marketing	Prof. Biswarup Ghosh	IITKGP	8 Weeks	21-Feb-22	24-Apr-22	21-Feb-22	https://onlinecourses.nptel.ac.in/noc22_mg50/preview
60	noc22-hs46	Humanities and Social Sciences	Psychology of Stress, Health and Well-being	Prof. Dilwar Hussain	IITG	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs46/preview
61	noc22-ge14	Multidisciplinary	Non-conventional energy Resources	Prof. Prathap Haridoss	IITM	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_ge14/preview
62	noc22-hs30	Humanities and Social Sciences	German - I	Prof. Milind Brahme	IITM	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs30/preview
63	noc22-hs42	Humanities and Social Sciences	An Introduction to Microeconomics	Prof. Vimal Kumar	IITK	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs42/preview
64	noc22-hs59	Humanities and Social Sciences	Intellectual Property	Prof. Feroz Ali	IITM	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs59/preview
65	noc22-hs63	Humanities and Social Sciences	Training and Development Prof. Susmita Mukhopadhyay Prof. Sangeeta Sahney Prof. S.Srinivasan		IITKGP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_hs63/preview
66	noc22-mg08	Management	Financial Management For Managers	Prof. Anil K. Sharma	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg08/preview
67	noc22-mg09	Management	Business analytics and data mining Modeling using R	Prof. Gaurav Dixit	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg09/preview
68	noc22-mg11	Management	Business Analytics For Management Decision	Prof. Rudra P Pradhan	IITKGP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg11/preview
69	noc22-mg16	Management	Quality Design And Control	Prof. Pradip Kumar Ray	IITKGP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg16/preview

70	noc22-mg17	Management	Management of Inventory Systems	Prof. Pradip Kumar Ray	IITKGP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg17/preview
71	noc22-mg22	Management	Marketing Research and Analysis-II	Prof. J. K. Nayak	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg22/preview
72	noc22-mg23	Management	Financial Institutions and Markets	Prof. Jitendra Mahakud	IITKGP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg23/preview
73	noc22-mg26	Management	Marketing Analytics	Prof. Swagato Chatterjee	IITKGP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg26/preview
74	noc22-mg27	Management	Modelling and Analytics for Supply Chain Management	Prof. Kunal Kanti Ghosh Prof. Anupam Ghosh	IITKGP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg27/preview
75	noc22-mg35	Management	Decision making with spreadsheet	Prof. Ramesh Anbanandam	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg35/preview
76	noc22-mg01	Management	Strategy and Technology: A Practical Primer	Prof. C Bhaktavatsala Rao	IITM	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg01/preview
77	noc22-mg38	Management	Integrated Marketing Communication	Prof. Vinay Sharma	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg38/preview
78	noc22-mg39	Management	Leadership and Team Effectiveness	Prof. Santosh Rangnekar	IITR	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg39/preview
79	noc22-mg48	Management	Six Sigma	Prof. Jitesh J Thakkar	IITKGP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg48/preview
80	noc22-mg55	Management	Safety and Risk Analytics	Prof. Jhareswar Maiti	IITKGP	12 Weeks	24-Jan-22	24-Apr-22	31-Jan-22	https://onlinecourses.nptel.ac.in/noc22_mg55/preview