

**FOLLOWING NPTEL COURSES ARE SUGGESTED FOR
ELECTRONICS AND COMPUTER ENGINEERING
And
DEPARTMENT OF ELECTRONICS AND COMPUTER SCIENCE**

**LIST OF ONLINE NPTEL/SWAYAM COURSES FOR ODD SEMESTER (RC 19-20)
FOR THE ACADEMIC YEAR 2024-25 (July-Oct 2024)**

Sr ID	Course ID	Course Name	SME Name	Institute	Duration	Link to join	Credits	Sem
1	noc24-ae17	Aircraft Stability and Control	Prof. A K Ghosh	IIT Kanpur	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_ae17/preview	3	III,V,VII
2	noc24-ae13	Introduction to Airplane Performance	Prof. A K Ghosh Prof Deepu Philip	IIT Kanpur	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_ae13/preview	2	III,V,VII
3	noc24-cs102	Reinforcement Learning	Prof. Balaraman Ravindran	IIT Madras	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs102/preview	3	V,VII
4	noc24-cs90	Social Network Analysis	Prof. Tanmoy Chakraborty	IIT Delhi	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs90/preview	3	V,VII
5	noc24-cs113	The Joy of Computing using Python	Prof. Sudarshan Iyengar Prof. Simran Setia	IIT Ropar	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs113/preview	3	III,V,VII
6	noc24-cs130	Big Data Computing	Prof. Rajiv Misra	IIT Patna	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs130/preview	2	V,VII
7	noc24-cs94	Ethical Hacking	Prof. Indranil Sengupta	IIT Kharagpur	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs94/preview	3	III,V,VII
8	noc24-cs124	Computer Vision	Prof. Jayanta Mukhopadhyay	IIT Kharagpur	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs124/preview	3	V,VII

				ur				
9	noc24-cs91	Software Testing	Prof. Meenakshi D'souza	IIT Bangalore	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs91/preview	3	V,VII
10	noc24-cs78	Programming, Data Structures and Algorithms using Python	Prof. Madhavan Mukund	Chennai Mathematical Institute	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs78/preview	2	III,V,VII
11	noc24-cs133	Data Science for Engineers	Prof. Ragunathan Rengasamy Prof. Shankar Narasimhan	IIT Madras	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs133/preview	2	V,VII
12	noc24-cs68	Python for Data Science	Prof. Ragunathan Rengasamy	IIT Madras	4 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs68/preview	1	III,V,VII
13	noc24-cs121	Cyber Security and Privacy	Prof. Saji K Mathew	IIT Madras	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs121/preview	3	V,VII
14	noc24-de15	Understanding Incubation and Entrepreneurship	Prof. B.K. Chakravarthy	IIT Bombay	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_de15/preview	3	III,V,VII
15	noc24-de12	Innovation by Design	Prof. B.K. Chakravarthy	IIT Bombay	4 Weeks	https://onlinecourses.nptel.ac.in/noc24_de12/preview	1	III,V,VII
16	noc24-ee107	Electronic Systems for Cancer Diagnosis	Prof. Hardik Jeetendra Pandya	IISc Bangalore	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_ee107/preview	3	V,VII
17	noc24-ee147	Digital Circuits	Prof. Santanu Chattopadhyay	IIT Kharagpur	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_ee147/preview	3	III,V

18	noc24-cs89	Deep Learning for Computer Vision	Prof. Vineeth N Balasubramanian	IIT Hyderabad	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs89/preview	3	V,VII
19	noc24-ee101	Nanobiophotonics: Touching Our Daily Life	Prof. Basudev Lahiri	IIT Kharagpur	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_ee101/preview	3	V,VII
20	noc24-ee144	Introduction to Photonics	Prof. Balaji Srinivasan Prof Shivananju	IIT Madras	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_ee144/preview	3	V,VII
21	noc24-ee113	Probability Foundations for Electrical Engineers	Prof. Krishna Jagannathan	IIT Madras	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_ee113/preview	3	III,V,VII
22	noc24-ee94	System Design Through Verilog	Prof. Shaik Rafi Ahamed	IIT Guwahati	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_ee94/preview	2	V,VII
23	noc24-ee83	Sensor Technologies: Physics, Fabrication, and Circuits	Prof.Mitradiip Bhattacharjee	IISER Bhopal	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_ee83/preview	2	III,V,VII
24	noc24-hs176	Developing Soft Skills and Personality	Prof. T Ravichandran	IIT Kanpur	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_hs176/preview	2	III,V,VII
25	noc24-hs121	Introduction to Japanese Language and Culture - II	Prof. Vatsala Misra	IIT Kanpur	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_hs121/preview	3	III
26	noc24-hs162	Body Language: Key to Professional Success	Prof. Rashmi Gaur	IIT Roorkee	4 Weeks	https://onlinecourses.nptel.ac.in/noc24_hs162/preview	1	III,V,VII
27	noc24-hs143	Public Speaking	Prof. Binod Mishra	IIT Roorkee	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_hs143/preview	3	III,V,VII
28	noc24-hs130	German - I	Prof. Milind Brahme	IIT Madras	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_hs130/preview	3	III,V,VII
29	noc24-hs156	German - II	Prof. Milind Brahme	IIT Madras	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_hs156/preview	3	III,V,VII
30	noc24	Text, Textuality and Digital	Prof. Arjun Gosh	IIT Delhi	12	https://onlinecourses.nptel.ac.in/noc	3	III,V,VII

	-hs122	Media			Weeks	24_hs122/preview		
31	noc24 -hs95	Patent Drafting for Beginners	Prof. Feroz Ali	IIT Madras	4 Weeks	https://onlinecourses.nptel.ac.in/noc24_hs95/preview	1	III,V,VII
32	noc24 -ma55	Operations Research	Prof. Kusumdeep	IIT Roorkee	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_ma55/preview	2	III,V,VII
33	noc24 -ma95	Foundations of R Software	Prof. Shalabh	IIT Kanpur	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_ma95/preview	3	V,VII
34	noc24 -mg91	Business to Business Marketing (B2B)	Prof. Jogendra Nayak	IIT Roorkee	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_mg91/preview	3	III,V,VII
35	noc24 -mg75	Project Management	Prof. Raghu Nandan Sengupta	IIT Kanpur	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_mg75/preview	2	V,VII
36	noc24 -mg93	Entrepreneurship	Prof. C Bhaktavatsala Rao	IIT Madras	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_mg93/preview	3	III,V,VII
37	noc24 -mg95	Strategic Management for Competitive Advantage	Prof. Sanjib Chowdhury	IIT Kharagpur	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_mg95/preview	3	V,VII
38	noc24 -mg131	Ethics in Engineering Practice	Prof. Susmita Mukhopadhyay	IIT Kharagpur	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_mg131/preview	2	III,V,VII
39	noc24 -ph29	Physics of Renewable Energy Systems	Prof. Amreesh Chandra	IIT Kharagpur	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_ph29/preview	3	V,VII
40	noc24 -ph28	Concepts in Magnetism and Superconductivity	Prof. A Taraphder	IIT Kharagpur	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_ph28/preview	2	III,V,VII
41	noc24 -ph27	Advanced Quantum Mechanics with Applications	Prof. Saurabh Basu	IIT Guwahat	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_ph27/preview	2	V,VII

				i				
42	noc24-ee95	An Introduction to Coding Theory	Prof. Adrish Banerjee	IIT Kanpur	8 Weeks	https://onlinecourses.nptel.ac.in/noc24_ee95/preview	2	V,VII
43	noc24-cy52	Concepts of Chemistry for Engineering	Prof. Anindya Datta Prof. Debabrata Maiti Prof. Chidambar Kulkarni Prof. Arnab Dutta	IIT Bombay	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_cy52/preview	3	III, V, VII
44	noc24-cs120	Social Networks	Prof. Sudarshan Iyengar Prof. Yayati Gupta	IIT Ropar	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_cs120/preview	<u>3</u>	<u>V,VII</u>
45	noc24-cs95	Introduction to Industry 4.0 and Industrial Internet of Things	Prof. Sudip Misra	IIT Kharagpur	12 weeks	https://onlinecourses.nptel.ac.in/noc24_cs95/preview	3	III,V
46	noc24-me117	Industrial Robotics : Theories for Implementation	Prof. Arun Dayal Udai	IIT (ISM Dhanbad)	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_me117/preview	3	V,VII
47	noc24-mg110	Industrial Safety Engineering	Prof. Jhareswar Maiti	IIT Kharagpur	12 Weeks	https://onlinecourses.nptel.ac.in/noc24_mg110/preview	3	VII

Note:

1. The credits will be awarded based on scheme proposed above.

2. Students should mandatory undertake ONE NPTEL/SWAYAM course of 3 CREDITS from the above list between 5th to 7th semester against 8th-semester course i.e. ECOMP830 /ECS 830Elective –NPTEL/MOOC/SWAYAM.
3. The student shall submit the NPTEL/SWAYAM certificates to Goa University through Heads of Department while applying for the degree.