Silicon Institute of Technology, Bhubaneswar
LIST OF APPROVED NPTEL COURSES for AY 2023-24 for B.Tech Students

Sl.No	Course Code	Course Name	Resource Person	Organization	Duration
1	noc23-ee117	Analog Communication	Prof. Goutam Das	IITKGP	12 weeks
2	noc23-ee100	Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	Prof. Aditya K. Jagannatham	IITK	12 weeks
3	noc23-cs114	C-Based VLSI Design	Prof. Chandan Karfa	IITG	12 weeks
4	noc23-cs67	Computer Architecture	Prof. Smruti Ranjan Sarangi	IITD	12 weeks
5	noc23-cs77	Computer Vision	Prof. Jayanta Mukhopadhyay	IITKGP	12 weeks
6	noc23-cs127	Cyber Security and Privacy	Prof. Saji K Mathew	IITM	12 weeks
7	noc23-ee131	Deep Learning	Prof. Prabir Kumar Biswas	IITKGP	12 weeks
8	noc23-cs110	Deep Learning	Prof. S. Iyengar & Prof. Padmavati	IIT Ropar	12 weeks
9	noc23-cs126	Deep Learning for Computer Vision	Prof. V. N. Balasubramanian	IIT Hyderabad	12 weeks
11	noc23-ee140	Design of Electric Motors	Prof. Prathap Reddy	IISc Bengaluru	12 weeks
10	noc23-ee107	Design of Photovoltaic Systems	Prof. L. Umanand	IISc Bengaluru	12 weeks
12	noc23-ee118	Digital Image Processing	Prof. Prabir Kumar Biswas	IITKGP	12 weeks
13	noc23-ee128	Economic Operations and Control of Power Systems	Prof. Gururaj Mirle Vishwanath Prof .Narayana Prasad Padhy	IIT Kanpur, MNIT Jaipur	12 weeks
14	noc23-ee108	Enclosure Design of Electronics Equipments	Prof. N.V.Chalapathi Rao	IISc Bengaluru	12 weeks
15	noc23-cs75	Ethical Hacking	Prof. Indranil Sengupta	IITKGP	12 weeks
16	noc23-ee80	Fiber Optic Communication Technology	Prof. Deepa Venkitesh	IITM	12 weeks
17	noc23-bt38	Fundamentals of Micro and Nano Fabrication	Prof Sushobhan Avasti Prof Shankar Selvaraja	IISc Bengaluru	12 weeks
18	noc23-cs103	Getting Started with Competitive Programming	Prof. Neeldhara Misra	IIT Gandhinagar	12 weeks
19	noc23-cs82	Introduction To Industry 4.0 and Industrial Internet of Things	Prof. Sudip Misra	IITKGP	12 weeks
20	noc23-ee79	Introduction to Wireless and Cellular Communications	Prof. David Koilpillai	IITM	12 weeks
21	oc23-ee144	Linear Systems Theory	Prof. Ramkrishna Pasumarthy	IITM	12 weeks
22	noc23-ee87	Machine Learning and Deep Learning - Fundamentals and Applications	Prof. M.K. Bhuyan	IITG	12 weeks
23	noc23-cs123	Operating System Fundamentals	Prof. Santanu Chattopadhyay	IITKGP	12 weeks
24	noc23-ee83	Phase Locked Loops	Prof Saurabh Saxena	IIT, MADRAS	12 weeks
25	noc23-cs69	Privacy And Security In Online Social Media	Prof. Ponnurangam Kumaraguru	IIIT Hyderabad	12 weeks

03/7/'23

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Sl.No	Course Code	Course Name	Resource Person	Organization	Duration
26	noc23-cs78	Programming In Modern C++	Prof. Partha Pratim Das	IITKGP	12 weeks
27	noc23-mg107	Project Management for Managers	Prof. Mukesh Kumar Baru	IITR	12 weeks
28	noc23-ee93	Real-Time Digital Signal Processing	Prof Rathna Gn	IISc Bengaluru	12 weeks
30	noc23-ee91	Semiconductor Devices and Circuits	Prof Sanjiv Sambandan	IISc Bengaluru	12 weeks
31	noc23-ee136	Simulation of Communication Systems Using MATLAB	Prof. Ribhu	IITG	12 weeks
32	noc23-cs106	Social Network Analysis	Prof. Tanmoy Chakraborty	IITD	12 weeks
33	noc23-cs107	Social Networks	Prof. S. Iyengar, Prof. Y. Gupta	IIT Ropar	12 weeks
34	noc23-cs91	Software Testing	Prof. Meenakshi D'Souza	IIITB	12 weeks
35	noc23-ee103	Stochastic Control and Communication	Prof. Ankur A. Kulkarni	IITB	12 weeks
36	noc23-ge47	Sustainable Power Generation Systems	Prof. Pankaj Kalita	IITG	12 weeks
37	noc23-cs108	The Joy of Computing Using Python	Prof. Sudarshan Iyengar	IIT Ropar	12 weeks
38	noc23-ee105	Transducers for Instrumentation	Prof. Ankur Gupta	IITD	12 weeks
39	noc23-de16	Understanding Incubation and Entrepreneurship	Prof. B. K. Chakravarthy	IITB	12 weeks
40	noc23-ee137	VLSI Design Flow: RTL to GDS	Prof. Sneh Saurabh	IIITD	12 weeks

Rules & Regulations:

1) Every student from 2020-24 Batch onwards has to undergo TWO courses from NPTEL/SWAYAM in self-study mode.

2) A student can enroll for a MOOC course on NPTEL/SWAYAM portal during the 5th/6th/7th/8th semesters.

3) A student can enroll for any MOOC course listed above irrespective of branch (like an open elective).

4) A student CANNOT enroll for a course that has been already covered within the curriculum.

5) A student MUST NOT enroll for a course that s/he plans to choose as elective in upcoming semesters.

6) Any enrollment outside the above list and/or repetition of a course included in curriculum shall be outrightly rejected.

7) Students have to enroll, self study, and appear the examinations conducted by NPTEL to pass in that course.

8) After successfully passing a course, the certificate issued by SWAYAM must be submitted to Department Coordinator for verification.

9) If a student fails in a MOOC course, s/he may repeat the same course or enroll for another course from the above list

10) After verification, the FA shall forward the same to the Controller of Examinations for award of Grades & inclusion in Grade Sheet

11) The courses published in the approved list of 2022-23 will also remain valid provided enrollment is open.

Students can contact Dr. Lopamudra Mitra (EEE), SPOC, NPTEL Chapter, SIT BBSR for any assitance in this regard.

03/07/2023

SPOC, NPTEL Chapter

Dean (Academics)