



WHAT IS A NPTEL?

NPTEL is an acronym for National Programme on Technology Enhanced Learning which is an initiative by seven Indian Institutes of Technology (IIT Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) and Indian Institute of Science (IISc) for creating course contents in engineering and science. NPTEL as a project originated from many deliberations between IITs, Indian Institutes of Management (IIMs) and Carnegie Mellon University (CMU) during the years 1999-2003. A proposal was jointly put forward by five IITs (Bombay, Delhi, Kanpur, Kharagpur and Madras) and IISc for creating contents for 100 courses as web based supplements and 100 complete video courses, for forty hours of duration per course. Web supplements were expected to cover materials that could be delivered in approximately forty hours. Five engineering branches (Civil, Computer Science, Electrical, Electronics and Communication and Mechanical) and core science programmes that all engineering students are required to take in their undergraduate engineering programme in India were chosen initially. Contents for the above courses were based on the model curriculum suggested by All India Council for Technical Education (AICTE) and the syllabi of major affiliating Universities in India.

HOW TO USE

NPTEL videos are very helpful for students who genuinely wish to understand the topics under the B.Tech subjects taught at IITs. It is also a quick way to prepare just before the exam date. They are easy to understand, good in quality and to the point. It saves a lot of crucial time.

Click Here:- <http://nptel.ac.in/>

DETAILS OF NPTEL COURSES

Aerospace Engineering	Chemical Engineering	Environmental Science	Mining Engineering
Agriculture	Chemistry and Biochemistry	General	Nanotechnology
Architecture	Civil Engineering	Humanities and Social Sciences	Ocean Engineering
Atmospheric Science	Computer Science and Engineering	Management	Physics
Automobile Engineering	Electrical Engineering	Mathematics	Textile Engineering
Basic courses(Sem 1 and 2)	Electronics & Communication Engineering	Mechanical Engineering	
Biotechnology	Engineering Design	Metallurgy and Material Science	



On Line Courses Repository of NPTEL
Electronics and Communications Engineering (ECE)

Following are the links to online courses available through (MOOC Coursera). This list is prepared by Mr.Vikram Singh Rathore from IIIT Kota, Central Library for self-learning of B.Tech students of Electronics and Communications Engineering (ECE), The Online courses Repository is covered with no of 3500 (**Three Thousand Five Hundred**) Lecture/Topic in 94 (**Ninty Four**) courses of ECE.

Electronics and Communications Engineering (ECE)

S.NO	COURCES	WEB LINK FOR ACCESS
1.	<ul style="list-style-type: none"> • <u>CMOS Analog VLSI Design</u> • Prof. A.N. Chandorkar ,IIT Bombay 	http://nptel.ac.in/courses/117101105/
2.	<ul style="list-style-type: none"> • <u>Advanced Logic Synthesis</u> • Dhiraj Taneja ,IIT Madras 	http://nptel.ac.in/courses/117106109/
3.	<ul style="list-style-type: none"> • <u>Advanced Optical Communication</u> • Prof. R.K. Shevgaonkar ,IIT Bombay 	http://nptel.ac.in/courses/117101002/
4.	<ul style="list-style-type: none"> • <u>Advanced VLSI Design</u> • Prof. A.N. Chandorkar, Prof. Virendra Singh • Prof. Sachin Patkar, Prof. D.K. Sharma , • IIT Bombay 	http://nptel.ac.in/courses/117101004/
5.	<ul style="list-style-type: none"> • <u>Analog CircuitsRoorkee</u> • Dr. Pramod Agarwal ,IIT Roorkee 	http://nptel.ac.in/courses/117107094/
6.	<ul style="list-style-type: none"> • <u>Analog Circuits</u> • Prof. A.N. Chandorkar ,IIT Bombay 	http://nptel.ac.in/courses/117101106/
7.	<ul style="list-style-type: none"> • <u>Analog Circuits and Systems 1</u> • Prof. K. Radhakrishna Rao ,IISc Bangalor 	http://nptel.ac.in/courses/117108107/
8.	<ul style="list-style-type: none"> • <u>Analog IC Design</u> • Dr. Nagendra Krishnapura ,IIT Madras 	http://nptel.ac.in/courses/117106030/
9.	<ul style="list-style-type: none"> • <u>Adv. Digital Signal Processing - Multirate and wavelets</u> • Prof. V.M. Gadre ,IIT Bombay 	http://nptel.ac.in/courses/117101001/
10.	<ul style="list-style-type: none"> • <u>Adaptive Signal Processing</u> • Prof. Mrityunjay Chakraborty ,IIT Kharagpur 	http://nptel.ac.in/courses/117105075/
11.	<ul style="list-style-type: none"> • <u>Advanced 3G and 4G Wireless Mobile Communications</u> • Prof. Aditya K. Jagannatham ,IIT Kanpur 	http://nptel.ac.in/courses/117104099/
12.	<ul style="list-style-type: none"> • <u>Advanced Antenna Theory</u> • Dr. Amalendu Patnaik ,IIT Roorkee 	http://nptel.ac.in/courses/117107035/
13.	<ul style="list-style-type: none"> • <u>ARM Based Development</u> • S.Chandramouleeswaran ,IIT Madras 	http://nptel.ac.in/courses/117106111/
14.	<ul style="list-style-type: none"> • <u>Basic Electronics</u> • Dr. Pramod Agarwal ,IIT Roorkee 	http://nptel.ac.in/courses/117107095/
15.	<ul style="list-style-type: none"> • <u>Basic Electronics</u> • Prof. Chitralekha Mahanta ,IIT Guwahati 	http://nptel.ac.in/courses/117103063/

16.	<u>Biophotonics</u> Dr. Manoj Varma ,IISc Bangalor	http://nptel.ac.in/courses/117108037/
17.	<u>Communication Engineering</u> Prof. Surendra Prasad ,IIT Delhi	http://nptel.ac.in/courses/117102059/
18.	<u>Broadband Networks: Concepts and Technology</u> Prof. Abhay Karandikar ,IIT Bombay	http://nptel.ac.in/courses/117101050/
19.	<u>Circuits for Analog System Design</u> Prof. M.K. Gunasekaran ,IISc Bangalor	http://nptel.ac.in/courses/117108038/
20.	<u>Coding Theory</u> Dr. Andrew Thangaraj ,IIT Madras	http://nptel.ac.in/courses/117106031/
21.	<u>Communication Networks and Switching</u> Prof. S.L. Maskara ,IIT Kharagpur	http://nptel.ac.in/courses/117105076/
22.	<u>Digital Circuits</u> Prof. Roy Paily Palanthinkal Prof. Anil Mahanta ,IIT Guwahati	http://nptel.ac.in/courses/117103064/
23.	<u>Digital Circuits and Systems</u> Prof. S. Srinivasan ,IIT Madras	http://nptel.ac.in/courses/117106086/
24.	<u>Digital Communication</u> Prof. Saswat Chakrabarti Prof. R.V. Rajakumar ,IIT Kharagpur	http://nptel.ac.in/courses/117105077/
25.	<u>Digital Communication</u> Prof. Bikash Kumar Dey ,IIT Bombay	http://nptel.ac.in/courses/117101051/
26.	<u>Digital Switching</u> Prof. Yatindra N Singh ,IIT Kanpur	http://nptel.ac.in/courses/117104104/
27.	<u>Digital System design with PLDs and FPGAs</u> Prof. Kuruvilla Varghese ,IISc Bangalor	http://nptel.ac.in/courses/117108040/
28.	<u>Digital Systems Design</u> Prof. D. Roychoudhury ,IIT Kharagpur	http://nptel.ac.in/courses/117105080/
29.	<u>Digital Video Signal Processing</u> Prof. Sumana Gupta ,IIT Kanpur	http://nptel.ac.in/courses/117104020/
30.	<u>Digital Voice & Picture Communication</u> Prof. Somnath Sengupta ,IIT Kharagpur	http://nptel.ac.in/courses/117105081/
31.	<u>Digital Computer Organization</u> Prof. P.K. Biswas ,IIT Kharagpur	http://nptel.ac.in/courses/117105078/
32.	<u>Digital Image Processing</u> Prof. P.K. Biswas ,IIT Kharagpur	http://nptel.ac.in/courses/117105079/
33.	<u>Digital Image Processing</u> Prof. Sumana Gupta ,IIT Kanpur	http://nptel.ac.in/courses/117104069/
34.	<u>Digital Signal Processing</u> Prof. S.C. Dutta Roy ,IIT Delhi	http://nptel.ac.in/courses/117102060/
35.	<u>Digital Signal Processing</u> Prof. Govind Sharma ,IIT Kanpur	http://nptel.ac.in/courses/117104070/
36.	<u>Electronics for Analog Signal Processing – I</u> Prof. K. Radhakrishna Rao ,IIT Madras	http://nptel.ac.in/courses/117106087/
37.	<u>IC Technology</u> Prof. Indrajit Chakraborty Prof. Roy Paily Palanthinkal ,IIT Guwahati	http://nptel.ac.in/courses/117103066/
38.	<u>Information Theory and Coding</u> Prof. S.N. Merchant ,IIT Bombay	http://nptel.ac.in/courses/117101053/

39.	<u>Information Theory and Coding</u> Prof. Pavan S Nuggehalli ,IISc Bangalor	http://nptel.ac.in/courses/117108097/
40.	<u>Linux Programming & Scripting</u> Anand Iyer ,IIT Madras	http://nptel.ac.in/courses/117106113/
41.	<u>MEMS and Microsystems</u> Prof. Santiram Kal ,IIT Kharagpur	http://nptel.ac.in/courses/117105082/
42.	<u>Electronics for Analog Signal Processing – II</u> Prof. K. Radhakrishna Rao ,IIT Madras	http://nptel.ac.in/courses/117106088/
43.	<u>Error Correcting Codes</u> Prof. P. Vijay Kumar ,IISc Bangalore	http://nptel.ac.in/courses/117108044/
44.	<u>Embedded Software Testing</u> MADHUKESHWARA H M ,IIT Madras	http://nptel.ac.in/courses/117106112/
45.	<u>High Speed Devices and Circuits</u> Prof. K.N. Bhat ,IIT Madras	http://nptel.ac.in/courses/117106089/
46.	<u>High Speed Semiconductor Devices</u> Prof. Anjan Ghosh ,IIT Kanpur	http://nptel.ac.in/courses/117104071/
47.	<u>IC Technology</u> Prof. Indrajit Chakraborty Prof. Roy Paily Palanthinkal ,IIT Guwahati	http://nptel.ac.in/courses/117103066/
48.	<u>Adv. Digital Signal Processing - Multirate and wavelets</u> Prof. V.M. Gadre ,IIT Bombay	http://nptel.ac.in/courses/117101001/
49.	<u>Advanced 3G and 4G Wireless Mobile Communications</u> Prof. Aditya K. Jagannatham ,IIT Kanpur	http://nptel.ac.in/courses/117104099/
50.	<u>Advanced Antenna Theory</u> Dr. Amalendu Patnaik ,IIT Roorkee	http://nptel.ac.in/courses/117107035/
51.	<u>Advanced Logic Synthesis</u> Dhiraj Taneja ,IIT Madras	http://nptel.ac.in/courses/117106109/
52.	<u>Advanced Optical Communication</u> Prof. R.K. Shevgaonkar ,IIT Bombay	http://nptel.ac.in/courses/117101002/
53.	<u>NOC:Digital Image Processing</u> Prof. P.K. Biswas ,IIT Kharagpur	http://nptel.ac.in/courses/117105135/
54.	<u>NOC:Error control coding: An introduction to linear block code</u> Dr. Adrish Banerjee ,IIT Kanpur	http://nptel.ac.in/courses/117104121/
55.	<u>NOC:Foundations of Wavelets and Multirate Digital Signal Processing</u> Prof. V.M. Gadre ,IIT Bombay	http://nptel.ac.in/courses/117101123/
56.	<u>NOC:Fundamentals of MIMO Wireless Communication</u> Prof. Suvra Sekhar Das ,IIT Kharagpur	http://nptel.ac.in/courses/117105132/
57.	<u>NOC: Microwave Integrated Circuits</u> Prof. Jayanta Mukherjee ,IIT Bombay	http://nptel.ac.in/courses/117101119/
58.	<u>NOC:Millimeter Wave Technology</u> Prof. Mrinal Kanti Mandal ,IIT Kharagpur	http://nptel.ac.in/courses/117105139/
59.	<u>NOC:Digital Switching – I</u> Prof. Yatindra N Singh ,IIT Kanpur	http://nptel.ac.in/courses/117104128/

60	<u>NOC:Digital VLSI Testing</u> Prof. Santanu Chattopadhyay ,IIT Kharagpur	http://nptel.ac.in/courses/117105137/
61	<u>NOC:Discrete Time Signal Processing</u> Prof. Mrityunjoy Chakraborty ,IIT Kharagpur	http://nptel.ac.in/courses/117105134/
62	<u>NOC:Error Control Coding: An Introduction to Convolutional Codes</u> Dr. Adrish Banerjee ,IIT Kanpur	http://nptel.ac.in/courses/117104120/
63	<u>NOC:Estimation for Wireless Communications - MIMO/ OFDM Cellular and Sensor Networks(Course sponsored by Aricent)</u> Prof. Aditya K. Jagannatham ,IIT Kanpur	http://nptel.ac.in/courses/117104118/
64	<u>NOC:Error control coding: An introduction to linear block code</u> Dr. Adrish Banerjee ,IIT Kanpur	http://nptel.ac.in/courses/117104121/
65	<u>NOC:Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications(Course sponsored by Aricent)</u> Prof. Aditya K. Jagannatham ,IIT Kanpur	http://nptel.ac.in/courses/117104115/
66	<u>NOC:Optical communications</u> Dr. Pradeep Kumar K ,IIT Kanpur	http://nptel.ac.in/courses/117104127/
67	<u>NOC:Satellite Communication Systems</u> Prof. Kalyankumar Bandyopadhyay, IIT Kharagpur	http://nptel.ac.in/courses/117105131/
68	<u>NOC:Probability and Random Variables/ Processes for Wireless Communications</u> Prof. Aditya K. Jagannatham ,IIT Kanpur	http://nptel.ac.in/courses/117104117/
69	<u>NOC:Spread Spectrum Communications and Jamming</u> Prof. Debarati Sen ,IIT Kharagpur	http://nptel.ac.in/courses/117105136/
70	<u>NOC:VLSI Design Verification and test</u> Dr. Santosh Biswas, Prof.Arnab sarkar Jatindra Kumar Deka ,IIT Guwahati	http://nptel.ac.in/courses/117103125/
71	<u>Optical Communication</u> Prof. R.K. Shevgaonkar Prof. D.K. Ghosh ,IIT Bombay	http://nptel.ac.in/courses/117101054/
72	<u>Pattern Recognition</u> Prof. P.S. Sastry ,IISc Bangalore	http://nptel.ac.in/courses/117108048/
73	<u>Pattern Recognition</u> Dr. K.Vijayarekha ,IIT Madras	http://nptel.ac.in/courses/117106100/
74	<u>Pattern Recognition and Application</u> Prof. P.K. Biswas ,IIT Kharagpur	http://nptel.ac.in/courses/117105101/
75	<u>Principles of Communication</u> Prof. V. Venkat Rao ,IIT Madras	http://nptel.ac.in/courses/117106090/
76	<u>Probability and Random Processes</u> Prof. Mrityunjoy Chakraborty ,IIT Kharagpur	http://nptel.ac.in/courses/117105085/
77	<u>NOC:Error control coding: An introduction to linear block code</u> Dr. Adrish Banerjee ,IIT Kanpur	http://nptel.ac.in/courses/117104121/
78	<u>Probability and Random Processes</u> Prof. Prabin K Bora ,IIT Guwahati	http://nptel.ac.in/courses/117103067/

79	<u>Signal Detection and Estimation Theory</u> Dr. R. Sinha ,IIT Guwahati	http://nptel.ac.in/courses/117103018/
80	<u>Signals and Systems</u> Prof. K.S. Venkatesh ,IIT Kanpur	http://nptel.ac.in/courses/117104074/
81	<u>Signals and Systems</u> Prof. V.M. Gadre ,IIT Bombay	http://nptel.ac.in/courses/117101055/
82	<u>Solid State Devices</u> Prof. S. Karmalkar ,IIT Madras	http://nptel.ac.in/courses/117106091/
83	<u>Transmission Lines and EM Waves</u> Prof. R.K. Shevgaonkar ,IIT Bombay	http://nptel.ac.in/courses/117101056/
84	<u>Transmission Lines and EM Waves</u> Prof. R.K. Shevgaonkar ,IIT Bombay	http://nptel.ac.in/courses/117101057/
85	<u>Queuing Systems</u> Prof. S.K. Bose ,IIT Guwahati	http://nptel.ac.in/courses/117103017/
86	<u>RF Integrated Circuits</u> Dr. Shouribrata Chatterjee ,IIT Delhi	http://nptel.ac.in/courses/117102012/
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88	<u>Semiconductor Devices</u> Dr. G.S. Visweswaran ,IIT Delhi	http://nptel.ac.in/courses/117102061/
89	<u>Semiconductor Optical Communication Components and Devices</u> Dr. Utpal Das ,IIT Kanpur	http://nptel.ac.in/courses/117104022/
90	<u>VLSI Circuits</u> Prof. S. Srinivasan ,IIT Madras	http://nptel.ac.in/courses/117106092/
91	<u>VLSI Data Conversion Circuits</u> Dr. Shanthi Pavan ,IIT Madras	http://nptel.ac.in/courses/117106034/
92	<u>VLSI Design</u> Prof. A.N. Chandorkar ,IIT Bombay	http://nptel.ac.in/courses/117101058/
93	<u>VLSI Technology</u> Dr. Nandita Dasgupta ,IIT Madras	http://nptel.ac.in/courses/117106093/
94	<u>Wireless Communication</u> Prof. Ranjan Bose ,IIT Delhi	http://nptel.ac.in/courses/117102062/

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