

Department of Electronics & Communication Engineering

IPS Academy, Institute of Engineering & Science, Indore

**NPTEL Course List**

S. No	Sem./ Yr.	Course with code	Faculty Teaching Course	Name of Deliverer	Title	Lecture No.	Link
1	II/I	MEDC-203 NDT	Mr. Nitin K. Jain	Prof. Hema A Murthy	Error Detection	11-12	<a href="https://nptel.ac.in/courses/106106091/">https://nptel.ac.in/courses/106106091/</a>
2	II/I	MEDC-203 NDT	Mr. Nitin K. Jain	Prof. Hema A Murthy	Stop and Wait analysis, Sliding Window	13-14	<a href="https://nptel.ac.in/courses/106106091/">https://nptel.ac.in/courses/106106091/</a>
3	II/I	MEDC-203 NDT	Mr. Nitin K. Jain	Prof. Hema A Murthy	ATM	20	<a href="https://nptel.ac.in/courses/106106091/">https://nptel.ac.in/courses/106106091/</a>
4	II/I	MEDC-203 NDT	Mr. Nitin K. Jain	Prof. Hema A Murthy	Token Ring, FDDI	22-24	<a href="https://nptel.ac.in/courses/106106091/">https://nptel.ac.in/courses/106106091/</a>
5	II/I	MEDC-203 NDT	Mr. Nitin K. Jain	Prof. Hema A Murthy	Routing Algorithms	32-34	<a href="https://nptel.ac.in/courses/106106091/">https://nptel.ac.in/courses/106106091/</a>
6	II/I	MEDC-204 Optical N/W	Smita Patil	Dr. Pradeep Kumar K	Couplers, Circulators, Filters	45	<a href="https://nptel.ac.in/courses/108104113/">https://nptel.ac.in/courses/108104113/</a>
7	II/I	MEDC-204 Optical N/W	Smita Patil	Dr. Pradeep Kumar K	Filter, Mux, Diffraction Grating	46	<a href="https://nptel.ac.in/courses/108104113/">https://nptel.ac.in/courses/108104113/</a>
8	II/I	MEDC-204 Optical N/W	Smita Patil	Dr. Pradeep Kumar K	WDM Components	44	<a href="https://nptel.ac.in/courses/108104113/">https://nptel.ac.in/courses/108104113/</a>
9	II/I	MEDC-204 Optical N/W	Smita Patil	Prof. S.Ghosh,	SONET/SDH	9	<a href="http://www.nptelvideos.in/2012/11/computer-networks.html">http://www.nptelvideos.in/2012/11/computer-networks.html</a>
10	II/I	MEDC-204 Optical N/W	Smita Patil	Prof. S.Ghosh,	Fiber Optic Components	10	<a href="http://www.nptelvideos.in/2012/11/computer-networks.html">http://www.nptelvideos.in/2012/11/computer-networks.html</a>
11	II/I	MEDC-204 Optical N/W	Smita Patil	Prof. S.Ghosh,	Routing and Wavelength assignment	11	<a href="http://www.nptelvideos.in/2012/11/computer-networks.html">http://www.nptelvideos.in/2012/11/computer-networks.html</a>
12	II/I	MEDC-204 Optical N/W	Smita Patil	Prof. S.Ghosh,	Multiple Access	13	<a href="http://www.nptelvideos.in/2012/11/computer-">http://www.nptelvideos.in/2012/11/computer-</a>

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							networks.html
13	II/I	MEDC-204 Optical N/W	Smita Patil	Prof. S.Ghosh,	Token Based MAC	14	<a href="http://www.nptelvideos.in/2012/11/computer-networks.html">http://www.nptelvideos.in/2012/11/computer-networks.html</a>
14	VIII/IV	EC 8001 VLSI Design (Practical)	Mr. Sunil Chavda	Prof. Sudeb Das Gupta	MOS Transistor basics	1,2,3	<a href="https://nptel.ac.in/courses/108/107/108107129/">https://nptel.ac.in/courses/108/107/108107129/</a>
15	VIII/IV	EC8001 VLSI Design	Ms. Poonam Lilhare	Prof. Sudeb Dasgupta	Combinational Circuit Simulation	3	<a href="https://nptel.ac.in/courses/108/107/108107129/">https://nptel.ac.in/courses/108/107/108107129/</a>
16	VIII/IV	EC8001 VLSI Design	Ms. Poonam Lilhare	Prof. Indranil Sengupta	VLSI Physical Design	1,2,3,58	<a href="https://nptel.ac.in/courses/106/105/106105161/">https://nptel.ac.in/courses/106/105/106105161/</a>
17	VIII/IV	EC8001 VLSI Design	Ms. Poonam Lilhare	Prof. A.N. Chandorkar	Fabrication Process & Layout Design Rule	9-14	<a href="https://nptel.ac.in/courses/117/101/117101058/">https://nptel.ac.in/courses/117/101/117101058/</a>
18	VIII/IV	EC-8002 ACS	Mr. Rajesh Babu Ahirwar/ Mr. Amit Pathak	Prof. Pramod K. Varshney	Cognitive Radios and Wireless Communication – Theory, Practice and Security	14	<a href="https://www.youtube.com/watch?v=TlOHCd4DJ7I">https://www.youtube.com/watch?v=TlOHCd4DJ7I</a>
19	VIII/IV	EC-8002 ACS	Mr. Rajesh Babu Ahirwar/ Mr. Amit Pathak	Prof. Aditya K. Jagannathan	Introduction to CDMA, Spread spectrum and LFSR	13	<a href="https://nptel.ac.in/courses/117104099/">https://nptel.ac.in/courses/117104099/</a>
20	VIII/IV	EC-8002 ACS	Mr. Rajesh Babu Ahirwar/ Mr. Amit Pathak	Prof. Aditya K. Jagannathan	Generation and properties of PN sequences	14	<a href="https://nptel.ac.in/courses/117104099/">https://nptel.ac.in/courses/117104099/</a>
21	VIII/IV	EC-8002	Mr. Rajesh	Prof. Aditya	Orthogonal	45	<a href="https://nptel.ac.in/courses">https://nptel.ac.in/courses</a>

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		ACS	Babu Ahirwar/ Mr. Amit Pathak	K. Jagannathan	Frequency Division Multiplexing		/117104115/
22	VIII/IV	EC-8002 ACS	Mr. Rajesh Babu Ahirwar/ Mr. Amit Pathak	Prof. Aditya K. Jagannathan	Schematic representation of OFDM Transmitter and Receiver	49	<a href="https://nptel.ac.in/courses/117104115/">https://nptel.ac.in/courses/117104115/</a>
23	VIII/IV	EC- 8003(2)	Mr. Gaurav Matange/ Mr. Roopesh Makwana	Prof. Sudip Misra(IIT Kharagpur)	Wireless Ad Hoc and Sensor Networks	No. 1 , 2, 8, 9, 12, 13 , 14, 21, 22 , 25 & 26	<a href="https://nptel.ac.in/courses/106/105/106105160/#">https://nptel.ac.in/courses/106/105/106105160/#</a>
24	VIII/IV	EC- 8003(2)	Mr. Gaurav Matange/ Mr. Roopesh Makwana	Prof. Phalguni Gupta,IIT Kanpur	Biometrics	No. 1 , 2	<a href="https://nptel.ac.in/courses/106/104/106104119/">https://nptel.ac.in/courses/106/104/106104119/</a>
25	VIII/IV	EC- 8003(2)	Mr. Gaurav Matange/ Mr. Roopesh Makwana	Ms. Shweta, Tutorials Point India Private Limited.	Network Security - Trojan Horse	1	<a href="https://www.youtube.com/watch?v=IF4VIC1TfoE&amp;t=1s">https://www.youtube.com/watch?v=IF4VIC1TfoE&amp;t=1s</a>
26	VIII/IV	EC-8005 Project lab	Mr. Rahul Pal	Dr. Santanu Chaudhary, IIT Delhi	Embedded Systems	1	<a href="https://nptel.ac.in/courses/108102045/">https://nptel.ac.in/courses/108102045/</a>
27	VI/III	EC- 601 DSP	Mr. Ritesh Gupta	Prof. Mrityunjoy Chakraborty (IIT Kharagpur)	Discrete Time Signal Processing Discrete Time Signal Processing Discrete Time Signal Processing	(DFT: Week 4: No. 17, 18, 19 & 20)	<a href="https://nptel.ac.in/courses/117/105/117105134/">https://nptel.ac.in/courses/117/105/117105134/</a>
28	VI/III	EC- 601 DSP	Mr. Ritesh Gupta	Prof. Mrityunjoy	Discrete Time Signal	(Filter design: Week 7: No.	<a href="https://nptel.ac.in/courses/117/105/117105134/">https://nptel.ac.in/courses/117/105/117105134/</a>

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				Chakraborty (IIT Kharagpur)	Processing Discrete Time Signal Processing Discrete Time Signal Processing	33, 34 & 35 and Week 8: no. 36 & 37)	
29	VI/III	EC- 601 DSP	Mr. Ritesh Gupta	Prof. Mrityunjoy Chakraborty (IIT Kharagpur)	Discrete Time Signal Processing Discrete Time Signal Processing Discrete Time Signal Processing	(FFT Week 8: No. 38, 39 & 40)	<a href="https://nptel.ac.in/courses/117/105/117105134/">https://nptel.ac.in/courses/117/105/117105134/</a>
30	VI/III	EC – 602 AWP	Mr. Nilesh Sharma	Prof. Girish Kumar, IITB	Types of Antenna	13, 14, 40-44, 50-52	<a href="https://nptel.ac.in/courses/108/101/108101092/">https://nptel.ac.in/courses/108/101/108101092/</a>
31	VI/III	EC – 602 AWP	Mr. Nilesh Sharma	Prof. Girish Kumar, IITB	Aperture and Slot Antenna	19-20, 45-49, 56-59	<a href="https://nptel.ac.in/courses/108/101/108101092/">https://nptel.ac.in/courses/108/101/108101092/</a>
32	VI/III	EC603 A Data Communications	Mrs Kavita Upadhyay	Prof. Indranil SenGupta	Internet Technology	3-5	<a href="https://nptel.ac.in/courses/106/105/106105084/">https://nptel.ac.in/courses/106/105/106105084/</a>
33	VI/III	EC603 A Data Communications	Mrs Kavita Upadhyay	Prof A Pal	Data Communications	15-32	<a href="https://nptel.ac.in/courses/106/105/106105082/">https://nptel.ac.in/courses/106/105/106105082/</a>
34	VI/ III	MCES (EC 604 A)	Mrs. Namrata Atre	M. Krishna Kumar/IISc.	(Unit II) Microprocessors	1	<a href="https://nptel.ac.in/content/storage2/courses/106108">https://nptel.ac.in/content/storage2/courses/106108</a>

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				Bangalore	and Microcontrollers /Architecture of Micro controllers for 8096		100/pdf/Lecture_Notes/LNm5.pdf
35	VI/ III	MCES (EC 604 A)	Mrs. Namrata Atre	Prof. Indranil Sengupta	(Unit III) Introduction To Embedded Systems	1, 2, 4	<a href="https://www.digimat.in/nptel/courses/video/106105193/L01.html">https://www.digimat.in/nptel/courses/video/106105193/L01.html</a>
36	VI/ III	MCES (EC 604 A)	Mrs. Namrata Atre	Prof. Kamalika Datta	(Unit IV) CISC And RISC Architecture	8	<a href="https://nptel.ac.in/content/storage2/nptel_data3/html/mhrd/ict/text/106105163/lec8.pdf">https://nptel.ac.in/content/storage2/nptel_data3/html/mhrd/ict/text/106105163/lec8.pdf</a>
37	VI/ III	MCES (EC 604 A)	Mrs. Namrata Atre	Prof. Indranil Sengupta	(Unit V) Introduction To Embedded Systems	13, 15	<a href="https://www.digimat.in/nptel/courses/video/106105193/L01.html">https://www.digimat.in/nptel/courses/video/106105193/L01.html</a>
38	IV/II	CSIT-402 ADC	Mr. Dharmendra Kumar Yadaw	Prof. Shabbir N. merchant	Delta Modulation	33	<a href="https://www.youtube.com/watch?v=qvP0y-f5eDM&amp;feature=emb_logo">https://www.youtube.com/watch?v=qvP0y-f5eDM&amp;feature=emb_logo</a>
39	IV/II	CSIT-402 ADC	Mr. Dharmendra Kumar Yadaw	Prof. Shabbir N. merchant	Binary ASK and PSK	45	<a href="https://www.youtube.com/watch?time_continue=1&amp;v=t87ycrOrJd4&amp;feature=emb_logo">https://www.youtube.com/watch?time_continue=1&amp;v=t87ycrOrJd4&amp;feature=emb_logo</a>
40	IV/II	CSIT-402 ADC	Mr. Dharmendra Kumar Yadaw	Prof. Shabbir N. merchant	Quadrature Phase Shift Keying	48	<a href="https://www.youtube.com/watch?time_continue=4&amp;v=3ZWs84coJqc&amp;feature=emb_logo">https://www.youtube.com/watch?time_continue=4&amp;v=3ZWs84coJqc&amp;feature=emb_logo</a>
41	IV/II	CSIT-402	Mr.	Prof.	M-ary PSK	55	<a href="https://www.youtube.co">https://www.youtube.co</a>

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		ADC	Dharmendra Kumar Yadaw	Shabbir N. merchant			<a href="https://www.youtube.com/watch?v=Rw7VK2__toA&amp;feature=emb_logo">m/watch?v=Rw7VK2__toA&amp;feature=emb_logo</a>
42	IV/II	CSIT-402 ADC	Mr. Dharmendra Kumar Yadaw	Prof. Shabbir N. merchant	M-ary FSK	57	<a href="https://www.youtube.com/watch?v=2ZkYTJCh0F4&amp;feature=emb_logo">https://www.youtube.com/watch?v=2ZkYTJCh0F4&amp;feature=emb_logo</a>
43	IV/II	EC-402 Signals & Systems	Mr. Ashish Sharma	Prof. K.S. Venkatesh, IIT Kanpur	Discrete Time Fourier Transform	33	<a href="https://www.youtube.com/watch?v=__N2czrth9Y">https://www.youtube.com/watch?v=__N2czrth9Y</a>
44	IV/II	EC-402 Signals & Systems	Mr. Ashish Sharma	Prof. K.S. Venkatesh, IIT Kanpur	Properties of Discrete Time Fourier Transform	34	<a href="https://www.youtube.com/watch?v=Ca11eP2CgDI">https://www.youtube.com/watch?v=Ca11eP2CgDI</a>
45	IV/II	EC-402 Signals & Systems	Mr. Ashish Sharma	Prof. K.S. Venkatesh, IIT Kanpur	Frequency Response of Discrete LTI System	35	<a href="https://www.youtube.com/watch?v=YJ9_ENLzaKA">https://www.youtube.com/watch?v=YJ9_ENLzaKA</a>
46	IV/II	EC-402 Signals & Systems	Mr. Ashish Sharma	Prof. K.S. Venkatesh, IIT Kanpur	Z-Transform	43	<a href="https://www.youtube.com/watch?v=ryfaCpTHVtQ">https://www.youtube.com/watch?v=ryfaCpTHVtQ</a>
47	IV/II	EC-402 Signals & Systems	Mr. Ashish Sharma	Prof. K.S. Venkatesh, IIT Kanpur	Inverse Z Transform	44	<a href="https://www.youtube.com/watch?v=Uc5SFRp6ex0">https://www.youtube.com/watch?v=Uc5SFRp6ex0</a>
48	IV/II	EC-402 Signals & Systems	Mr. Ashish Sharma	Prof. K.S. Venkatesh, IIT Kanpur	Properties of Z Transform	45	<a href="https://www.youtube.com/watch?v=rGFrWzW0cjE">https://www.youtube.com/watch?v=rGFrWzW0cjE</a>
49	IV/II	EC-4005 Control System	Mr. Gopal Gupta	Prof. Ramkrishna Pasumarthy, IIT madras	Root Locus	Week 5	<a href="https://nptel.ac.in/courses/108106098/">https://nptel.ac.in/courses/108106098/</a>
50	IV/II	EC-4005 Control System	Mr. Gopal Gupta	Prof. Ramkrishna	concept, guidelines for	Week 5	<a href="https://nptel.ac.in/courses/108106098/">https://nptel.ac.in/courses/108106098/</a>

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				Pasumarthy, IIT madras	sketching Root- Locus.		
51	IV/II	EC-4005 Control System	Mr. Gopal Gupta	Prof. Ramkrishna Pasumarthy, IIT madras	Frequency response analysis	Week 6 & 7	<a href="https://nptel.ac.in/courses/108106098/">https://nptel.ac.in/courses/108106098/</a>
52	IV/II	EC-4005 Control System	Mr. Gopal Gupta	Prof. Ramkrishna Pasumarthy, IIT madras	Nyquist stability criterion,	Week 6 & 7	<a href="https://nptel.ac.in/courses/108106098/">https://nptel.ac.in/courses/108106098/</a>
53	IV/II	EC-4005 Control System	Mr. Gopal Gupta	Prof. Ramkrishna Pasumarthy, IIT madras	assessment of relative stability using Nyquist plot and Bode plot	Week 6 & 7	<a href="https://nptel.ac.in/courses/108106098/">https://nptel.ac.in/courses/108106098/</a>
54	IV/II	EC-4005 Control System	Mr. Gopal Gupta	Prof. Ramkrishna Pasumarthy, IIT madras	(phase margin, gain margin and stability).	Week 6 & 7	<a href="https://nptel.ac.in/courses/108106098/">https://nptel.ac.in/courses/108106098/</a>
55	IV/II	EC-4005 Control System	Mr. Gopal Gupta	Prof. Ramkrishna Pasumarthy, IIT madras	Approaches to system design	Week 8 & 9	<a href="https://nptel.ac.in/courses/108106098/">https://nptel.ac.in/courses/108106098/</a>
56	II/IV	EC405 Analog Circuits	Dr. Harsh Goud	Prof. Mahesh Patil	IC 555 Timer	69	<a href="https://nptel.ac.in/courses/108/101/108101091/">https://nptel.ac.in/courses/108/101/108101091/</a>
57	II/IV	EC405 Analog Circuits	Dr. Harsh Goud	Prof. Hardik J Pandya	Oscillators	1	<a href="https://nptel.ac.in/courses/108/108/108108111/">https://nptel.ac.in/courses/108/108/108108111/</a>
58	II/IV	EC405 Analog Circuits	Dr. Harsh Goud	Prof. Mahesh J	OP-AMP as Filters	24-25	<a href="https://nptel.ac.in/courses/108/108/108108111/">https://nptel.ac.in/courses/108/108/108108111/</a>

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				Patil			
59	IV/II	EC-403 Analog communication	Mr. Amiteshwar Bhalavi	Prof. Aditya jagannathan IIT Kanp	Frequeny Modulation (FM) with Sinusoidl Modulation Signal and Pictorial Examples	29	<a href="http://www.digimat.in/np&lt;br/&gt;tel/courses/video/108104&lt;br/&gt;091/L29.html">http://www.digimat.in/np tel/courses/video/108104 091/L29.html</a>
60	IV/II	EC-403 Analog communication	Mr. Amiteshwar Bhalavi	Prof. Aditya jagannathan IIT Kanp	Indirect Method for Generation of FM Signals Generation of Narrowband FM Signal	30	<a href="http://www.digimat.in/np&lt;br/&gt;tel/courses/video/108104&lt;br/&gt;091/L30.html">http://www.digimat.in/np tel/courses/video/108104 091/L30.html</a>
61	IV/II	EC-403 Analog communication	Mr. Amiteshwar Bhalavi	Prof. Aditya jagannathan IIT Kanp	Indirect Method for Generation of FM Signals - Generation of Wideband FM Signal through Frequency Multiplication	31	<a href="http://www.digimat.in/np&lt;br/&gt;tel/courses/video/108104&lt;br/&gt;091/L31.html">http://www.digimat.in/np tel/courses/video/108104 091/L31.html</a>
62	IV/II	EC-403 Analog communication	Mr. Amiteshwar Bhalavi	Prof. Aditya jagannathan IIT Kanp	Spectrum of Frequency Modulated (FM) Signals	32	<a href="http://www.digimat.in/np&lt;br/&gt;tel/courses/video/108104&lt;br/&gt;091/L32.html">http://www.digimat.in/np tel/courses/video/108104 091/L32.html</a>
63	IV/II	EC-403 Analog communication	Mr. Amiteshwar Bhalavi	Prof.Surend ra Prasad, Department of Electrical Engineering	pre emphasis and de-emphasis and FM receiver	25	<a href="https://nptel.ac.in/courses&lt;br/&gt;/117102059/">https://nptel.ac.in/courses /117102059/</a>



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				, IIT Delhi.			
64	IV/II	EC-403 Analog communication	Mr. Amiteshwar Bhalavi	Prof.K.Radh akrishna Rao, Department of Electrical Engineering ,IIT Madras.	AGC/AVC	34	<a href="https://youtu.be/Xqiyvv2Maf0">https://youtu.be/Xqiyvv2Maf0</a>
65	IV/II	EC-403 Analog communication	Mr. Amiteshwar Bhalavi	Prof.Surend ra Prasad, Department of Electrical Engineering ,IIT Delhi.	Superhet Receiver etc	13	<a href="https://www.youtube.com/redirect?q=http%3A%2F%2FnpTEL.iitm.ac.in&amp;v=bd5XkVqdWOg&amp;redir_token=sMdUzVSTwKK-_ttyjVQ9IFO5nGd8MTU4NDUyMzI4MUAxNTg0NDM2ODgx&amp;event=video_description">https://www.youtube.com/redirect?q=http%3A%2F%2FnpTEL.iitm.ac.in&amp;v=bd5XkVqdWOg&amp;redir_token=sMdUzVSTwKK-_ttyjVQ9IFO5nGd8MTU4NDUyMzI4MUAxNTg0NDM2ODgx&amp;event=video_description</a>
66	IV/II	EC-403 Analog communication	Mr. Amiteshwar Bhalavi	Prof.Surend ra Prasad, Department of Electrical Engineering ,IIT Delhi	Noise in AM and Angle Modulation Systems	35	<a href="https://www.youtube.com/redirect?q=http%3A%2F%2FnpTEL.iitm.ac.in&amp;v=WT1Y97riAQQ&amp;event=video_description&amp;redir_token=DYphnLYWvDnGcxWj_7cJH4vQns18MTU4NDUyMzUyMEA xNTg0NDM3MTIw">https://www.youtube.com/redirect?q=http%3A%2F%2FnpTEL.iitm.ac.in&amp;v=WT1Y97riAQQ&amp;event=video_description&amp;redir_token=DYphnLYWvDnGcxWj_7cJH4vQns18MTU4NDUyMzUyMEA xNTg0NDM3MTIw</a>