



PRINCETON INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN
(Approved by AICTE & Affiliated to JNTUH)
Chowdharyguda, Korremula(V),Ghatkesar (M),Medchal(D),TS-500088

2.3.2: Teachers use ICT enabled tools for effective teaching-learning process Subject Wise for Year 2020-21



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DEPARTMENT OF CIVIL ENGINEERING
A.Y.2020-2021

SL NO	YEAR	SUBJECT	TOPIC	Professor Name	Professor Affiliation	source	Name of the Faculty	Students attended
1	II YEAR	Strength of materials-I	Introduction of simple stresses and strains	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/1	Dr.M.Ramesh Babu	88
2			Definition of beam – Types of beams – Concept of shear force and bending moment	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/22	Dr.M.Ramesh Babu	72
3			Theory of simple bending – Assumptions	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/112105164/36	Dr.M.Ramesh Babu	80
4			Theory of pure torsion, assumptions made in theory of torsion	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/18	Dr.M.Ramesh Babu	86
5			Deflection of beams	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/19	Dr.M.Ramesh Babu	91
6		Fluid mechanics-I	Introduction of Fluid mechanics	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/1	H.Manjunadh	77
7			Fluid Kinematics	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/6	H.Manjunadh	86
8			Fluid Dynamics	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/12	H.Manjunadh	79
9			Darcy's equation	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/37	H.Manjunadh	80
10			Boundary Layer Theory	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/38	H.Manjunadh	84
11		Building Materials, Construction And Planning	Building stone classification and dressing	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102/105102088/	Mrs.Mahalakshmi	88
12			Admixtures mineral and chemical admixtures	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102/105102088/	Mrs.Mahalakshmi	75
13			Plumbing services	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102/105102088/	Mrs.Mahalakshmi	80
14			Brick masonry types	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102/105102088/	Mrs.Mahalakshmi	83
15			Principles of building planning	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102/105102088/	Mrs.Mahalakshmi	77
16		Concrete Technology	Setting time of cement	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102012/4	K.Ashwini	122
17			Measurement of workability	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102012/21	K.Ashwini	120
18			Non destructive methods	Prof Rajkumar	IIT Kanpur	https://nptel.ac.in/courses/112104221/20	K.Ashwini	124
19			Testing Hardenend concrete in detail	Prof Sudhir misra	IIT Kanpur	https://nptel.ac.in/courses/105104030/34	K.Ashwini	121
20			Special concretes	Prof Sudhir misra	IIT Kanpur	https://nptel.ac.in/courses/105104030/35	K.Ashwini	125
21			Introduction of Soil formation	Prof. D.N. Singh	IIT Bombay	https://nptel.ac.in/courses/105101/105101201/	Mrs.Srividya	123

Pooja
Principal

22	III YEAR	Geotechnical Engineering	Permeability, Soil water & capillary rise	Prof. D.N. Singh	IIT Bombay	https://nptel.ac.in/courses/105/101/105101201/	Mrs.Srividya	120
23			Introduction to Stress	Prof. D.N. Singh	IIT Bombay	https://nptel.ac.in/courses/105/101/105101201/	Mrs.Srividya	122
24			Introduction of Consolidation	Prof. D.N. Singh	IIT Bombay	https://nptel.ac.in/courses/105/101/105101201/	Mrs.Srividya	121
25			Importance of shear strength	Prof. D.N. Singh	IIT Bombay	https://nptel.ac.in/courses/105/101/105101201/	Mrs.Srividya	124
26	III YEAR	Environmental Engineering	Characteristics of water and waste	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/105106119/5	Mrs.S.Swapna	123
27			Sedimentation	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/105106119/8	Mrs.S.Swapna	121
28			Waste water treatment	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/105106119/15	Mrs.S.Swapna	120
29			Activated sludge process	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/105106119/16	Mrs.S.Swapna	125
30			Anaerobic treatment	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/105106119/23	Mrs.S.Swapna	119
31	IV	Transportation Engineering	Introduction to railway.	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/105107123/1	Dr.Ruskin Kumar Charles Sundar Raj	82
32			Introduction of Airport engineering and airport site selection	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/105107123/27	Dr.Ruskin Kumar Charles Sundar Raj	96
33			Introduction of Port and harbour engineering.	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/105107123/29	Dr.Ruskin Kumar Charles Sundar Raj	63
34			Intelligent transport systems:ITS definition	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/105107123/30	Dr.Ruskin Kumar Charles Sundar Raj	79
35			Features of harbour,planning of harbour	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/105107123/31	Dr.Ruskin Kumar Charles Sundar Raj	80



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
 A.Y.2020-2021

SL NO	YEAR	SUBJECT	TOPIC	Professor Name	Professor Affiliatio	source	Name of the Faculty	Students Attended
1	II YEAR	DLD	Introduction to Digital System Design	Prof.D.Roy Choudhury	IIT Kharagpur	https://www.youtube.com/watch?v=ODa_nUZPr5GY&list=PLUtFVcb-ign_wpppb8cEjHJIS87p0_J3q&index=1	Mr.M.Ranjith Reddy	22
2			Hazzard Covers by K Map	Prof.D.Roy Choudhury	IIT Kharagpur	https://www.youtube.com/watch?v=ODa_nUZPr5GY&list=PLUtFVcb-ign_wpppb8cEjHJIS87p0_J3q&index=11	Mr.M.Ranjith Reddy	22
3			Introduction to Combinational Circuit Design	Prof.D.Roy Choudhury	IIT Kharagpur	https://www.youtube.com/watch?v=ODa_nUZPr5GY&list=PLUtFVcb-ign_wpppb8cEjHJIS87p0_J3q&index=12	Mr.M.Ranjith Reddy	22
4			Introduction to Logic Design with PLA	Prof.D.Roy Choudhury	IIT Kharagpur	https://www.youtube.com/watch?v=ODa_nUZPr5GY&list=PLUtFVcb-ign_wpppb8cEjHJIS87p0_J3q&index=20	Mr.M.Ranjith Reddy	22
5			Design of Sequential Modules	Prof.D.Roy Choudhury	IIT Kharagpur	https://www.youtube.com/watch?v=ODa_nUZPr5GY&list=PLUtFVcb-ign_wpppb8cEjHJIS87p0_J3q&index=21	Mr.M.Ranjith Reddy	22
11		DBMS	Introduction to DBMS	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=SKT7jhPAQOE&list=PLlwC9bZ0rmjSkM1VRJROX4vP2YMif4Ebh&index=2	K.Vijay	23
12			Introduction to SQL	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=w1XdPholzWY&list=PLlwC9bZ0rmjSkM1VRJROX4vP2YMif4Ebh&index=6	K.Vijay	23
13			ER MODEL	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=cx7rBTS2dBM&list=PLlwC9bZ0rmjSkM1VRJROX4vP2YMif4Ebh&index=12	K.Vijay	23
14			Relational Data Base Design	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=K5jqNjnE-pE&list=PLlwC9bZ0rmjSkM1VRJROX4vP2YMif4Ebh&index=16	K.Vijay	23
15			Storage and File Structure	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=OX2Af5STDB4&list=PLlwC9bZ0rmjSkM1VRJROX4vP2YMif4Ebh&index=25	K.Vijay	23
16			Propostional Logic	Dr.Kamala Krithivasan	IIT Madras	https://www.youtube.com/watch?v=xLUFkMKS3Y	Mr.Uday Kiran	22

17	MATHEMATICAL FOUNDATION FOR COMPUTER SCIENCE	Predicates & Quantifiers	Dr.Kamala Krithivasan	IIT Madras	http://engineeringvideolectures.com/video/6026	Mr.Uday Kiran	22
18		Sets	Dr.Kamala Krithivasan	IIT Madras	http://engineeringvideolectures.com/video/6033	Mr.Uday Kiran	22
19		Equivalence Relation	Dr.Kamala Krithivasan	IIT Madras	http://engineeringvideolectures.com/video/6046	Mr.Uday Kiran	22
20		Graphs	Dr.Kamala Krithivasan	IIT Madras	http://engineeringvideolectures.com/video/6037	Mr.Uday Kiran	22
21	Operating Systems	Introduction to OS	Prof.Chester Rebeiro	IIT Madras	https://nptel.ac.in/courses/106/106/106106144/	S.P.ROJARANI	62
22		Memory Management	Prof.Chester Rebeiro	IIT Madras	https://nptel.ac.in/courses/106/106/106106144/	S.P.ROJARANI	68
23		OS Processes	Prof.Chester Rebeiro	IIT Madras	https://nptel.ac.in/courses/106/106/106106144/	S.P.ROJARANI	66
24		Interrupts	Prof.Chester Rebeiro	IIT Madras	https://nptel.ac.in/courses/106/106/106106144/	S.P.ROJARANI	58
25		Scheduling	Prof.Chester Rebeiro	IIT Madras	https://nptel.ac.in/courses/106/106/106106144/	S.P.ROJARANI	65
26	DAA	Framework for Algorithms Analysis	Prof.Abhiram Ranade	IIT Bombay	https://www.youtube.com/watch?v=7KQf7f8ti1U&list=PL7DC83C6B3312DF1E&index=2	Dr.A.Satyanarayana	59
27		Asymptotic Notation	Prof.Abhiram Ranade	IIT Bombay	https://www.youtube.com/watch?v=7KQf7f8ti1U&list=PL7DC83C6B3312DF1E&index=4	Dr.A.Satyanarayana	64
28		Algorithm Design Techniques	Prof.Sunder Vishwanathan	IIT Bombay	https://www.youtube.com/watch?v=7KQf7f8ti1U&list=PL7DC83C6B3312DF1E&index=5	Dr.A.Satyanarayana	68
29		Divide And Conquer	Prof.Sunder Vishwanathan	IIT Bombay	https://www.youtube.com/watch?v=7KQf7f8ti1U&list=PL7DC83C6B3312DF1E&index=6	Dr.A.Satyanarayana	62
30		NP Completeness	Prof.Abhiram Ranade	IIT Bombay	https://www.youtube.com/watch?v=7KQf7f8ti1U&list=PL7DC83C6B3312DF1E&index=27	Dr.A.Satyanarayana	61
31	Compiler Design	An Overview of a Compiler	Prof.Y.N.Srikant	IISC Bangalore	https://www.youtube.com/watch?v=F3e5YXedFLo&list=PL3690D679B876DE6A&index=1	Dr.Ch.Srihari	57
32		Run-Time Environments	Prof.Y.N.Srikant	IISC Bangalore	https://www.youtube.com/watch?v=F3e5YXedFLo&list=PL3690D679B876DE6A&index=2	Dr.Ch.Srihari	65
33		Code Generation	Prof.Y.N.Srikant	IISC Bangalore	https://www.youtube.com/watch?v=F3e5YXedFLo&list=PL3690D679B876DE6A&index=5	Dr.Ch.Srihari	63
34		Global Register Allocation	Prof.Y.N.Srikant	IISC Bangalore	https://www.youtube.com/watch?v=F3e5YXedFLo&list=PL3690D679B876DE6A&index=8	Dr.Ch.Srihari	65
35		Introduction to Machine-Independent Optimizations-	Prof.Y.N.Srikant	IISC Bangalore	https://www.youtube.com/watch?v=F3e5YXedFLo&list=PL3690D679B876DE6A&index=12	Dr.Ch.Srihari	61

41	IV YEAR	Mobile Computing	Introduction	Dr.Pushperndra Singh	IIT Delhi	https://www.youtube.com/watch?v=ytlkrvyif6g&list=PLsK7K7rfGYke2ZfFugu2cppvNHnrjD-u&index=1	Mrs.M.Sowjajnya	55
42			Java Basics	Dr.Pushperndra Singh	IIT Delhi	https://www.youtube.com/watch?v=ytlkrvyif6g&list=PLsK7K7rfGYke2ZfFugu2cppvNHnrjD-u&index=2	Mrs.M.Sowjajnya	50
43			Java: Strings, OOP principles	Dr.Pushperndra Singh	IIT Delhi	https://www.youtube.com/watch?v=ytlkrvyif6g&list=PLsK7K7rfGYke2ZfFugu2cppvNHnrjD-u&index=3	Mrs.M.Sowjajnya	52
44			Interfaces	Dr.Pushperndra Singh	IIT Delhi	https://www.youtube.com/watch?v=ytlkrvyif6g&list=PLsK7K7rfGYke2ZfFugu2cppvNHnrjD-u&index=4	Mrs.M.Sowjajnya	48
45			Classes, Exceptions, Threads	Dr.Pushperndra Singh	IIT Delhi	https://www.youtube.com/watch?v=ytlkrvyif6g&list=PLsK7K7rfGYke2ZfFugu2cppvNHnrjD-u&index=5	Mrs.M.Sowjajnya	50
46		LINUX PROGRAMMING	Basics of Linux	Anand Iyer	Director, Calypto	https://www.youtube.com/watch?v=akU1Ji8Vzdk&list=PLZ5dJPIUQexlMzytxuLk2uVHttBKV-1HH&index=1	Mr.Aseen Babu	52
47			Linux Networking	Anand Iyer	Director, Calypto	https://www.youtube.com/watch?v=Z0RVnURLRZM&list=PLZ5dJPIUQexlMzytxuLk2uVHttBKV-1HH&index=5	Mr.Aseen Babu	50
48			File Transfer Protocol	Anand Iyer	Director, Calypto	https://www.youtube.com/watch?v=akU1Ji8Vzdk&list=PLZ5dJPIUQexlMzytxuLk2uVHttBKV-1HH&index=7	Mr.Aseen Babu	54
49			Domain Name System	Anand Iyer	Director, Calypto	https://www.youtube.com/watch?v=akU1Ji8Vzdk&list=PLZ5dJPIUQexlMzytxuLk2uVHttBKV-1HH&index=8	Mr.Aseen Babu	48
50			AFS &NIS	Anand Iyer	Director, Calypto	https://www.youtube.com/watch?v=akU1Ji8Vzdk&list=PLZ5dJPIUQexlMzytxuLk2uVHttBKV-1HH&index=11	Mr.Aseen Babu	55



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
A.Y.2020-2021

SL NO	YEAR	SUBJECT	TOPIC	Professor Name	Professor Affiliation	source	Name of the Faculty	Students Attended
1	II-I	ELECTRONIC DEVICES AND CIRCUITS	DIFFUSION AND TRANSITION CAPACITANCES	Prof. Anjan Ghosh	IIT Kanpur	https://nptel.ac.in/courses/117/104/117104071/	Dr Dhanalaxmi	185
2			BJT-CE,CC,CB CONFIGURATIONS	Prof. Parasuraman S	IIT Madras	https://nptel.ac.in/courses/113/106/113106062/	Dr Dhanalaxmi	186
3			JFET CONSTRUCTION ,PRINCIPLE OF OPERATION	Prof. Parasuraman S	IIT Madras	https://nptel.ac.in/courses/113/106/113106062/	Dr Dhanalaxmi	178
4			TRANSISTOR HYBRID MODEL	Prof. Sudeb Dasgupta	IIT Roorkee	https://nptel.ac.in/courses/108/107/108107142/	Dr Dhanalaxmi	190
5			H -PARAMETER IN CC,CE,CB CONFIGURATION	Prof. Sudeb Dasgupta	IIT Roorkee	https://nptel.ac.in/courses/108/107/108107142/	Dr Dhanalaxmi	189
6	II-I	DIGITAL SYSTEM DESIGN	BOOLEAN ALGEBRA:BASIC THEORAMS AND PROPERTIES	Prof. D. Roychoudhury	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105080/	Dr Arun Prasath	190
7			K- MAP	Prof. D. Roychoudhury	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105080/	Dr Arun Prasath	192
8			COMBINATIONAL CIRCUITS	Prof. D. Roychoudhury	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105080/	Dr Arun Prasath	194
9			S-R,J-K,T,D FLIP FLOPS	Prof. S. Srinivasan	IIT Madras	https://nptel.ac.in/courses/117/106/117106086/	Dr Arun Prasath	186
10			SHIFT REGISTERS	Prof. S. Srinivasan	IIT Madras	https://nptel.ac.in/courses/117/106/117106086/	Dr Arun Prasath	190
11			CLASSIFICATION OF SIGNALS AND SYSTEMS	Prof. V.M. Gadre	IIT Bombay	https://nptel.ac.in/courses/117/101/117101055/	Mr Mohammad Jabirullah	187

12	II-I	SIGNALS AND SYSTEMS	LTI SYSTEMS	Prof. V.M. Gadre	IIT Bombay	https://nptel.ac.in/courses/117/101/117101055/	Mr Mohammad Jabirullah	185
13			LAPLACE TRANSFORM-ROC	Prof. V.M. Gadre	IIT Bombay	https://nptel.ac.in/courses/117/101/117101055/	Mr Mohammad Jabirullah	190
14			Z-TRANSFORM-ROC	Prof. V.M. Gadre	IIT Bombay	https://nptel.ac.in/courses/117/101/117101055/	Mr Mohammad Jabirullah	192
15			FOURIER SERIES-DIRICHLET'S CONDITION	Prof. Kushal K. Shah	IISER Bhopal	https://nptel.ac.in/courses/117/101/117101055/	Mr Mohammad Jabirullah	193
16			II-I	PROBABILITY THEORY AND STOCHASTIC PROCESS	Bay's theorem	Dr. S. Dharmaraja	IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/
17	discrete,continuous and mixed random variable	Dr. S. Dharmaraja			IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mr.Muniya Naik	194
18	random vector-joint distribution function	Dr. S. Dharmaraja			IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mr.Muniya Naik	187
19	central limit theorem	Dr. S. Dharmaraja			IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mr.Muniya Naik	184
20	random variable	Dr. K. Suresh Kumar			IIT Bombay	https://nptel.ac.in/courses/111/101/111101004/	Mr.Muniya Naik	187
26	II-II	ELECTROMAGNETIC FIELDS AND WAVES	COULOMB'S LAW	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/117/103/117103065/	Mr Mohammad Jabirullah	185
27			BIOT-SAVART LAW	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/117/103/117103065/	Mr Mohammad Jabirullah	190
28			FARADAY'S LAW	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/117/103/117103065/	Mr Mohammad Jabirullah	187
29			MAXWELL'S EQUATIONS IN DIFFERENT FORM'S	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/117/103/117103065/	Mr Mohammad Jabirullah	185
30			POYNTING VECTOR	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/117/103/117103065/	Mr Mohammad Jabirullah	190
31			INTRODUCTION OF AMPLITUDE MODULATION	Prof. Goutam Das	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105143/	Mr Vijay Bhaskar	194
32			SSB MODULATION	Prof. Goutam Das	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105143/	Mr Vijay Bhaskar	187

33	II-II	ANALOG AND DIGITAL COMMUNICATIONS	FREQUENCY MODULATION	Prof. Goutam Das	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105143/	Mr Vijay Bhaskar	192
34	pulse code modulation		Prof. S.N. Merchant	IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Mr Vijay Bhaskar	193	
35	dpcm		Prof. S.N. Merchant	IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Mr Vijay Bhaskar	187	
46	II-II	LINEAR IC APPLICATIONS	INTRODUCTION TO IC FABRICATION,SENSORS	Prof.Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=lv4Cj2A3ldw&list=PLuv3GM6-gsE3npYPJJdNef3pdiHZT6Kj3&index=3	Dr Arun Prasath	189
47			PROCESS FLOW FOR FABRICATION OF MOSFETS	Prof.Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=88eYPWShO5c&list=PLuv3GM6-gsE3npYPJJdNef3pdiHZT6Kj3&index=11	Dr Arun Prasath	190
48			OPERATIONAL AMPLIFIER CHARACTERISTICS	Prof.Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=SaJsL9_M1_w&list=PLuv3GM6-gsE3npYPJJdNef3pdiHZT6Kj3&index=16	Dr Arun Prasath	192
49			INTRODUCTION TO PASSIVE AND ACTIVE FILTERS AND OP-AMP AS LOW PASS FILTER	Prof.Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=W70GFpflKk&list=PLuv3GM6-gsE3npYPJJdNef3pdiHZT6Kj3&index=24	Dr Arun Prasath	194
50			INTRODUCTION TO OSCILLATOR,NOISE AND ITS TYPES	Prof.Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=YNd4OujkA8&list=PLuv3GM6-gsE3npYPJJdNef3pdiHZT6Kj3&index=33	Dr Arun Prasath	124
51	III-II	DIGITAL COMMUNICATIONS	INTRODUCTION TO DIGITAL COMMUNICATION	Prof.Bikash. Kumar	IIT Bombay	https://www.youtube.com/watch?v=qQcpnmJNluU	Mr.Valiki Vijayabhaske r	120
52			DPCM	Prof. S.N. Merchant	IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Mr.Valiki Vijayabhaske r	119
53			DM	Prof. S.N. Merchant	IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Mr.Valiki Vijayabhaske r	127
54			ASK and PSK	Prof. S.N. Merchant	IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Mr.Valiki Vijayabhaske r	125
55			QPSK	Prof. S.N. Merchant	IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Mr.Valiki Vijayabhaske r	120

56	III-II	ANTENNAS AND WAVE PROPAGATION	ANTENNA PARAMETERS :RADIATED POWER,RADIATION PATTERN , FIELD REGIONS	Dr. Amalendu Patnaik	IIT Roorkee	https://nptel.ac.in/courses/117/107/117107035/	Mrs Fathima	105
57			HALF WAVE DIPOLE AND ITS PROPERTISE	Dr. Amalendu Patnaik	IIT Roorkee	https://nptel.ac.in/courses/117/107/117107035/	Mrs Fathima	95
58			RELATION BETWEEN WIRE AND APERTURE ANTENNAS,HORN ANTENNA DESIGN PRINCIPLES	Dr. Amalendu Patnaik	IIT Roorkee	https://nptel.ac.in/courses/117/107/117107035/	Mrs Fathima	85
59			PRINCIPLES OF FREQUENCY-INDEPENDENT ANTENNA	Dr. Amalendu Patnaik	IIT Roorkee	https://nptel.ac.in/courses/117/107/117107035/	Mrs Fathima	110
60			N-ELEMENT ARRAY,UNIFORM ARRAY,ARRAY FACTOR	Dr. Amalendu Patnaik	IIT Roorkee	https://nptel.ac.in/courses/117/107/117107035/	Mrs Fathima	98
61	III-I	MICRO PROCESSORS AND MICRO CONTROLLERS	8086 ARCHITECTURE-REGISTER ORGANISATION-MICRO PROCESSOR	Prof. Santanu Chattopadhyay	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105102/	Dr Dhanalaxmi	160
62			8051 ARCHITECTURE -MICRO CONTROLLER	Prof. Santanu Chattopadhyay	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105102/	Dr Dhanalaxmi	156
63			ARM ARCHITECTURE-PIPELINE	Prof. Santanu Chattopadhyay	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105102/	Dr Dhanalaxmi	165
64			KEYBOARD INTERFACE TO 8051	Prof. Shaik Rafi Ahamed	IIT Guwahati	https://nptel.ac.in/courses/108/103/108103157/	Dr Dhanalaxmi	160
65			I/O INTERFACE TO 8051	Prof. Shaik Rafi Ahamed	IIT Guwahati	https://nptel.ac.in/courses/108/103/108103157/	Dr Dhanalaxmi	162
66	III-II	DIGITAL SIGNAL PROCESSING	INTRODUCTION TO DIGITAL SIGNAL PROCESSING ,LTI SYSTEMS	Prof. V. M. Gadre	IIT Bombay	https://nptel.ac.in/courses/108/101/108101174/	Mr Narasimha	105
67			DISCRETE TIME FOURIER TRANSFORM	Prof. V. M. Gadre	IIT Bombay	https://nptel.ac.in/courses/108/101/108101174/	Mr Narasimha	95
68			Z-TRANSFORM	Prof. V. M. Gadre	IIT Bombay	https://nptel.ac.in/courses/108/101/108101174/	Mr Narasimha	85
69			STEPS FOR FIR FILTER DESIGN	Prof. V. M. Gadre	IIT Bombay	https://nptel.ac.in/courses/108/101/108101174/	Mr Narasimha	110
70			BUTTER WORTH FILTER DERIVATION AND ANALYSIS	Prof. V. M. Gadre	IIT Bombay	https://nptel.ac.in/courses/108/101/108101174/	Mr Narasimha	98

71	IV-I	MICRO WAVE ENGINEERING	Introduction to Microwave and Transmission Line Theory	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=NW1NXoM4q5c&list=PLwdnzlV3ogoUe3QVmRNzDTJYikG0lYij-	Mr.Valiki Vijayabhasker	80
72			Waveguides and Rectangular Waveguide,Circular,Attenuation	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=k-zeCttEYVQ&list=PLwdnzlV3ogoUe3QVmRNzDTJYikG0lYij-&index=6	Mr.Valiki Vijayabhasker	75
73			Scattering ,Impedence Matrix	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=oyegBQEA2e8&list=PLwdnzlV3ogoUe3QVmRNzDTJYikG0lYij-&index=11	Mr.Valiki Vijayabhasker	70
74			Impedance Matching Using Shunt Stub, Double Stub and Quarter wave Transformer	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=JWNvvtGoByc&list=PLwdnzlV3ogoUe3QVmRNzDTJYikG0lYij-&index=13	Mr.Valiki Vijayabhasker	78
75			Tansmission line resonators,Gunn, IMPATT Diodes and Varactor Diodes	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=h-uD3IEOLbM&list=PLwdnzlV3ogoUe3QVmRNzDTJYikG0lYij-&index=25	Mr.Valiki Vijayabhasker	82
76	IV-I	EMBEDEED SYSTEM DESIGN	INTRODUCTION TO EMBEDDED SYSTEMS	Prof.Dhananjay V. Gadre	IIT Jammu	https://nptel.ac.in/courses/108/102/10810216	Dr Gopala Krishnan	80
77			GENERAL PURPOSE PROCESSORS	Prof. A. Routray	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105057/	Dr Gopala Krishnan	75
78			SENSORS AND ACTUATORS	Prof. Indranil Sengupta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105193/	Dr Gopala Krishnan	70
79			MEMORY ORGANISATION:ROM,RAM	Prof. Santanu Chaudhary	IIT Delhi	https://nptel.ac.in/courses/108/102/108102045/	Dr Gopala Krishnan	78
80			COMMUNICATION INTERFACE	Prof. Santanu Chaudhary	IIT Delhi	https://nptel.ac.in/courses/108/102/108102045/	Dr Gopala Krishnan	82
81	IV-I	VLSI DESIGN	INTRODUCTION TO IC TECHNOLOGY	Prof. A.N. Chandorkar	IIT Bombay	https://nptel.ac.in/courses/117/101/117101004/	Mrs Fathima	80
82			PROPERTIES OF MOS CIRCUITS	Prof. Sudeb Dasgupta	IIT Roorkee	https://nptel.ac.in/courses/108/107/108107129/	Mrs Fathima	75
83			CMOS INVERTER	Prof. Sudeb Dasgupta	IIT Roorkee	https://nptel.ac.in/courses/108/107/108107129/	Mrs Fathima	70
84			VLSI DESIGN FLOW	Prof. Indranil Sengupta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105161/	Mrs Fathima	78
85			TEST PATTERN GENERATION	Prof. Indranil Sengupta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105161/	Mrs Fathima	82

86	IV-II	GLOBAL POSITIONING SYSTEM	Introduction to Higher Surveying and Coordinate System & Reference Frame	Dr Ajay Dashora	IIT Guwahati	https://nptel.ac.in/courses/105/107/105107062/	Mrs Nafiza	80
87			Coordinate System and Reference Frame & Time and Astronomy	Dr Ajay Dashora	IIT Guwahati	https://nptel.ac.in/courses/105/107/105107062/	Mrs Nafiza	75
88			Time and Astronomy & Error, Accuracy, and Adjustments Computations	Dr Ajay Dashora	IIT Guwahati	https://nptel.ac.in/courses/105/107/105107062/	Mrs Nafiza	70
89			Error, Accuracy, and Adjustments Computations, GPS & Photogrammetry	Dr Ajay Dashora	IIT Guwahati	https://nptel.ac.in/courses/105/107/105107062/	Mrs Nafiza	78
90			Photogrammetry & LiDAR (LiDARgrammetry)	Dr Ajay Dashora	IIT Guwahati	https://nptel.ac.in/courses/105/107/105107062/	Mrs Nafiza	82
91	IV-II	SYSTEM DESIGN USING FPGA'S	CONTROL ALGORITHM AND STATE DIAGRAM	Kuruvilla Varghese	IISc Bangalore	https://nptel.ac.in/courses/117/108/117108040/	Dr G Dhanalaxmi	80
92			CASE STUDY ON FPGA BOARD	Kuruvilla Varghese	IISc Bangalore	https://nptel.ac.in/courses/117/108/117108040/	Dr G Dhanalaxmi	75
93			VHDL EXAMPLES, FSM CLOCK	Kuruvilla Varghese	IISc Bangalore	https://nptel.ac.in/courses/117/108/117108040/	Dr G Dhanalaxmi	70
94			PROGRAMMABLE LOGIC DEVICES (PLD)	Kuruvilla Varghese	IISc Bangalore	https://nptel.ac.in/courses/117/108/117108040/	Dr G Dhanalaxmi	78
95			FIELD PROGRAMMABLE GATE ARRAYS (FPGAS)	Kuruvilla Varghese	IISc Bangalore	https://nptel.ac.in/courses/117/108/117108040/	Dr G Dhanalaxmi	82



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
A.Y.2020-2021

SL NO	YEAR	SUBJECT	TOPIC	DATE	TIME	Professor Name	Professor Affiliation	source	Name of the Faculty	Students Attended
1	II YEAR	Electrical Machines - I	DC Machines introduction and constructi	21-Dec-20	9:30-10:20	Prof Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102146/	N.BHEEMAIH	46
2			Emf and torque equation of dc machines	6-Jan-21	11:10-12:00	Prof Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102146/	N.BHEEMAIH	42
3			DC Generator Characterstics	20-Jan-21	11:10-12:00	Prof Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102146/	N.BHEEMAIH	50
4			Transformer Amp turn balance	1-Feb-21	11:10-12:00	Prof Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102146/	N.BHEEMAIH	53
5			Equivalent circuit of transformers	18-Aug-20	9:30-10:20	Prof Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102146/	N.BHEEMAIH	54
6		Electrical Circuit Analysis	Introduction to KCL and Kvl	25-Dec-20	9:30-10:20	Prof Tapas Kumar Bhattachariya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105159/	N.GANESH	30
7			mesh and nodal analysis with time varyin	3-Jan-21	9:30-10:20	Prof Tapas Kumar Bhattachariya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105159/	N.GANESH	40
8			expression gor complex power in ac circu	18-Jan-21	9:30-10:20	Prof Tapas Kumar Bhattachariya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105159/	N.GANESH	42
9			Thevienin and Nortons Theorem	4-Feb-21	9:30-10:20	Prof Tapas Kumar Bhattachariya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105159/	N.GANESH	45
10			Maximum Power Transfer Theorem	17-Aug-20	10:20-11:10	Prof Tapas Kumar Bhattachariya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105159/	N.GANESH	48
11		EMF	Guass's Law	24-Dec-20	10:20-11:10	Prof K Pradeep Kumar	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104087/	VARUN KUMAR	43
12			Poissons's Equation	5-Jan-21	10:20-11:10	Prof K Pradeep Kumar	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104087/	VARUN KUMAR	44
13			Displacement Vectors	18-Jul-21	10:20-11:10	Prof K Pradeep Kumar	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104087/	VARUN KUMAR	46
14			Amperes Law	16-Dec-20	11:10-12:00	Prof K Pradeep Kumar	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104087/	VARUN KUMAR	48
15			Stokes Theorems	23-Dec-20	10:20-11:10	Prof K Pradeep Kumar	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104087/	VARUN KUMAR	47
16		Power System - i	Structure of Power System	30-Dec-20	10:20-11:10	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102047/	NAVEEN KUMAR D	38
17			Transmission Line Parameters	6-Jan-21	10:20-11:10	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102047/	NAVEEN KUMAR D	36
18			Methods of Voltage Control	20-Jan-21	10:20-11:10	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102047/	NAVEEN KUMAR D	45
19			Underground CABLES	16-Jul-21	9:30-10:20	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102047/	NAVEEN KUMAR D	44
20			Overhead line insulators	21-Aug-21	10:20-11:10	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102047/	NAVEEN KUMAR D	52
21			Protection of Transmission Lines using Di	9-Sep-21	11:10 - 12:00	Prof Bhaveshkumar Bhalja	IIT Roorkee	https://nptel.ac.in/courses/108/107/108107167/	A.NARESH	27

22	Switch Gear and Protection	Current based Relaying Scheme - I	10-Oct-21	10:20-11:10	Prof Bhaveshkumar Bhalja	IIT Roorkee	https://nptel.ac.in/courses/108/107/108107167/	A.NARESH	28
23		Auto - reclosing and Synchronizing - I	3-Nov-21	09:30 -10:20	Prof Bhaveshkumar Bhalja	IIT Roorkee	https://nptel.ac.in/courses/108/107/108107167/	A.NARESH	29
24		TRANSFORMER PROTECTION	16-Jul-21	10:20-11:10	Prof Anurag	ETIP	https://www.youtube.com/watch?v=60T4AwYJG4	A.NARESH	28
25		Generator Protection	21-Aug-21	10:20-11:10	Prof Anurag	ETIP	https://www.youtube.com/watch?v=ZkIZUJELakM	A.NARESH	30
26	Power System Analysis	Transmission line parameters	9-Sep-17	10:20-11:10	Prof A K Sinha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105067/	P.PRAVALLIKA	31
27		transmission line modelling	10-Oct-17	10:20-11:10	Prof A K Sinha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105067/	P.PRAVALLIKA	33
28		power flow studies	3-Nov-17	10:20-11:10	Prof A K Sinha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105067/	P.PRAVALLIKA	32
29		power system stability	16-Dec-19	11:10-12:00	Prof A K Sinha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105067/	P.PRAVALLIKA	34
30		bus impedane matrix	23-Dec-21	11:10-12:00	Prof A K Sinha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105067/	P.PRAVALLIKA	28
31	Power Electronics	GTO,SCR,IGBT	30-Dec-21	11:10-12:00	Web Content	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105066/	K.VANI	28
32		Single phase fully controlled rectifier	6-Jan-21	11:10-12:00	Web Content	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105066/	K.VANI	28
33		Types of DC-DC Converters	20-Jan-21	01:30-2:20	Web Content	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105066/	K.VANI	29
34		AC to AC Voltage Converters	16-Dec-21	11:10 - 12:00	Web Content	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105066/	K.VANI	31
35		sine PWM and its Realization	23-Dec-21	11:10 - 12:00	Web Content	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105066/	K.VANI	32
36	Power System - II	Voltage Regulation	30-Dec-21	11:10 - 12:00	Prof D P Kothari	IIT Delhi	http://www.nptelvideos.in/2012/11/power-sys-generation-transmission.html	Dr.ABDUL KAREEM	49
37		Capacitance of Transmission Lines	6-Jan-20	11:10 - 12:00	Prof D P Kothari	IIT Delhi	http://www.nptelvideos.in/2012/11/power-sys-generation-transmission.html	Dr.ABDUL KAREEM	58
38		Nominal T Network	20-Jan-20	11:10 - 12:00	prof kamakshaiah	Gate Academy	Nominal T Model Lecture 8 PSA - YouTube	Dr.ABDUL KAREEM	51
39		Sag in power system	4-Apr-21	10:20-11:10	prof rajesh	learn	Why Sag in Transmission lines? (plz use speakers) - YouTube	Dr.Abdul Kareem	50
40	High Voltage DC Transmission	introduction	21-Apr-21	10:20-11:10	Prof S N Singh	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104013/	Dr.Iyar Krishna	32
41		Rectifier and Inverter	16-May-21	10:20-11:10	Prof S N Singh	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104013/	Dr.Iyar Krishna	33
42		power in dc distribution comparison with	20-Jun-21	11:10-12:00	Prof S N Singh	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104013/	Dr.Iyar Krishna	28
43		Analysis of Converter Circuit	14-Jul-21	11:10-12:00	Prof S N Singh	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104013/	Dr.Iyar Krishna	32
44	Utilization of Electrical Energy	instructional Objectives	15-Aug-20	11:10 - 12:00	Prof K N Kishore	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105060/	NAVEEN KUMAR D	27
45		Eye and Vision I	22-Dec-20	11:10 - 12:00	Prof K N Kishore	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105060/	NAVEEN KUMAR D	30
46		Discharge Lamps I	4-Jan-21	9:30-10:20	Prof K N Kishore	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105060/	NAVEEN KUMAR D	31
47		Interior Lighting	20-Jan-21	9:30-10:20	Prof K N Kishore	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105060/	NAVEEN KUMAR D	30
48		conclusion on illumination engineering	29-Jan-21	9:30-10:20	Prof K N Kishore	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105060/	NAVEEN KUMAR D	38
49		Introducton to Electrical Distribution Syst	15-Aug-20	11:10 - 12:00	Prof G B Kumbhar	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Electrical Distribution System Analysis	Dr.ABDUL KAREEM	49

50	IV YEAR	Electrical Distribution Systems	Sirect Approach for Short circuit Analysis	22-Dec-20	11:10 - 12:00	Prof G B Kumbhar	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Electrical Distribution System Analysis	Dr.ABDUL KAREEM	45
51			Models of Distribution Lines and Cables	7-Jan-21	11:10 - 12:00	Prof G B Kumbhar	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Electrical Distribution System Analysis	Dr.ABDUL KAREEM	57
52			Gauss Implicit Z-matrix Method	25-Jan-21	11:10 - 12:00	Prof G B Kumbhar	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Electrical Distribution System Analysis	Dr.ABDUL KAREEM	56
53	IV YEAR	Renewable Energy Sources	Conventional sources of energy	5-Feb-21	11:10 - 12:00	Prof Prathap Haridoss	IIT Madras	https://nptel.ac.in/courses/121/106/121106014/	A.NARESH	46
54			solar cell	20-Apr-21	11:10 - 12:00	Prof Prathap Haridoss	IIT Madras	https://nptel.ac.in/courses/121/106/121106014/	A.NARESH	50
55			wind energy : design and considerations	5-May-21	9:30-10:20	Prof Prathap Haridoss	IIT Madras	https://nptel.ac.in/courses/121/106/121106014/	A.NARESH	44
56			ocean thermal energy	21-Jun-21	10:20-11:10	Prof Prathap Haridoss	IIT Madras	https://nptel.ac.in/courses/121/106/121106014/	A.NARESH	50
57			biomass usage and issues	14-Jul-21	9:30-10:20	Prof Prathap Haridoss	IIT Madras	https://nptel.ac.in/courses/121/106/121106014/	A.NARESH	44