



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 2021-22



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DEPARTMENT OF CIVIL ENGINEERING

A.Y.2021-22

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	Mrs.Aiswarya	48
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	Mrs.Aiswarya	52
3			Theory of simple bending – Assumptions	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/112105164/36	Mrs.Aiswarya	50
4			Theory of pure torsion, assumptions made in theory of torsion	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/18	Mrs.Aiswarya	46
5			Deflection of beams	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/19	Mrs.Aiswarya	41
6		Fluid mechanics-I	Introduction of Fluid mechanics	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/1	Mrs.B.Anusha	50
7			Fluid Kinematics	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/6	Mrs.B.Anusha	46
8			Fluid Dynamics	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/12	Mrs.B.Anusha	53
9			Darcy's equation	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/37	Mrs.B.Anusha	50
10			Boundary Layer Theory	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/38	Mrs.B.Anusha	54
11		Building Materials, Construction And Planning	Building stone classification and dressing	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102105102088/	Mr.M.SaiKumar Sagar	48
12			Admixtures mineral and chemical admixtures	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102105102088/	Mr.M.SaiKumar Sagar	
13			Plumbing services	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102105102088/	Mr.M.SaiKumar Sagar	50
14			Brick masonry types	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102105102088/	Mr.M.SaiKumar Sagar	43
15			Principles of building planning	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102105102088/	Mr.M.SaiKumar Sagar	47
16		Concrete Technology	Setting time of cement	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102012/4	Mr.Dharam Teja Mandala	22
17			Measurement of workability	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102012/21	Mr.Dharam Teja Mandala	20
18			Non destructive methods	Prof Rajkumar	IIT Kanpur	https://nptel.ac.in/courses/112104221/20	Mr.Dharam Teja Mandala	24

Rajeev
Principal

19	III YEAR		Testing Hardenend concrete in detail	Prof Sudhir misra	IIT Kanpur	https://nptel.ac.in/courses/10510403/9/34	Mr.Dharam Teja Mandala	21
20			Special concretes	Prof Sudhir misra	IIT Kanpur	https://nptel.ac.in/courses/10510403/9/35	Mr.Dharam Teja Mandala	25
21		Geotechnical Engineering	Introduction of Soil formation	Prof. D.N. Singh	IIT Bombay	https://nptel.ac.in/courses/105/101/1/05101201/	Dr.K.Jagadeeshan	23
22			Permeability, Soil water & capillary rise	Prof. D.N. Singh	IIT Bombay	https://nptel.ac.in/courses/105/101/1/05101201/	Dr.K.Jagadeeshan	20
23			Introduction to Stress Distribution in Soils	Prof. D.N. Singh	IIT Bombay	https://nptel.ac.in/courses/105/101/1/05101201/	Dr.K.Jagadeeshan	22
24			Introduction of Consolidation	Prof. D.N. Singh	IIT Bombay	https://nptel.ac.in/courses/105/101/1/05101201/	Dr.K.Jagadeeshan	21
25			Importance of shear strength	Prof. D.N. Singh	IIT Bombay	https://nptel.ac.in/courses/105/101/1/05101201/	Dr.K.Jagadeeshan	24
26		Environmental Engineering	Characteristics of water and waste wa	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/10510611/9/5	Mr.T.Ashok	23
27			Sedimentation	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/10510611/9/8	Mr.T.Ashok	21
28			Waste water treatment	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/10510611/9/15	Mr.T.Ashok	20
29			Activated sludge process	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/10510611/9/16	Mr.T.Ashok	25
30			Anaerobic treatment	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/10510611/9/23	Mr.T.Ashok	19
31	IV YEAR	Water Resources Engineering-II	Sediment management in reservoirs and regulated rivers	Dr. Dhrubajyoti Sen	IIT Kharagpur	https://nptel.ac.in/courses/105/105/1/05105110/	Mr.M.Nayeem	88
32			Designing of culvert	Dr. Dhrubajyoti Sen	IIT Kharagpur	https://nptel.ac.in/courses/105/105/1/05105110/	Mr.M.Nayeem	81
33			Design and construction of dams	Dr. Dhrubajyoti Sen	IIT Kharagpur	https://nptel.ac.in/courses/105/105/1/05105110/	Mr.M.Nayeem	83
34			Spillways and Energy Dissipators	Dr. Dhrubajyoti Sen	IIT Kharagpur	https://nptel.ac.in/courses/105/105/1/05105110/	Mr.M.Nayeem	91
35			Diversion structures	Dr. Dhrubajyoti Sen	IIT Kharagpur	https://nptel.ac.in/courses/105/105/1/05105110/	Mr.M.Nayeem	75
36		Transportation Engineering – II	Introduction to railway.	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/10510712/3/1	Mr.M.Krishna Chaitanya	84
37			Introduction of Airport engineering and airport site selection	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/10510712/3/27	Mr.M.Krishna Chaitanya	96
38			Introduction of Port and harbour engineering.	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/10510712/3/29	Mr.M.Krishna Chaitanya	68
39			Intelligent transport systems:ITS definition	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/10510712/3/30	Mr.M.Krishna Chaitanya	87
40			Features of harbour, planning of harbour	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/10510712/3/31	Mr.M.Krishna Chaitanya	80



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
A.Y.2021-22

SL NO	YEAR	SUBJECT	TOPIC	Professor Name	Professor Affiliation	source	Name of the Faculty	Students Attended
1	II YEAR	DLD	Introduction to Digital Systems Design	Prof.D.Roy Choudhury	IIT Kharagpur	https://www.youtube.com/watch?v=ODanUZPr5GY&list=PLUfVcb-ign_wpppb8cEjHJS87p0_J3q&index=1	Mr.I.V.Prakash	70
2			Hazzard Covers by K Map	Prof.D.Roy Choudhury	IIT Kharagpur	https://www.youtube.com/watch?v=ODanUZPr5GY&list=PLUfVcb-ign_wpppb8cEjHJS87p0_J3q&index=11	Mr.I.V.Prakash	69
3			Introduction to Combinational Circuit Design	Prof.D.Roy Choudhury	IIT Kharagpur	https://www.youtube.com/watch?v=ODanUZPr5GY&list=PLUfVcb-ign_wpppb8cEjHJS87p0_J3q&index=12	Mr.I.V.Prakash	69
4			Introduction to Logic Design with PLA	Prof.D.Roy Choudhury	IIT Kharagpur	https://www.youtube.com/watch?v=ODanUZPr5GY&list=PLUfVcb-ign_wpppb8cEjHJS87p0_J3q&index=20	Mr.I.V.Prakash	65
5			Design of Sequential Modules	Prof.D.Roy Choudhury	IIT Kharagpur	https://www.youtube.com/watch?v=ODanUZPr5GY&list=PLUfVcb-ign_wpppb8cEjHJS87p0_J3q&index=21	Mr.I.V.Prakash	71
11		DBMS	Introduction to DBMS	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=SkT7jhPAQOE&list=PLIwC9bZ0rmjSkM1VRJROX4vP2YMif4Ebh&index=2	Dr.K.Vara Prasad	70
12			Introduction to SQL	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=w1XdPhoizWY&list=PLIwC9bZ0rmjSkM1VRJROX4vP2YMif4Ebh&index=6	Dr.K.Vara Prasad	69
13			ER MODEL	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=cx7rBTS2dBM&list=PLIwC9bZ0rmjSkM1VRJROX4vP2YMif4Ebh&index=12	Dr.K.Vara Prasad	69
14			Relational Data Base Design	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=K5jqNinE-pE&list=PLIwC9bZ0rmjSkM1VRJROX4vP2YMif4Ebh&index=16	Dr.K.Vara Prasad	65
15			Storage and File Structure	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=QX2Af5S5TDB4&list=PLIwC9bZ0rmjSkM1VRJROX4vP2YMif4Ebh&index=25	Dr.K.Vara Prasad	71
16		FLAT	Introduction to Theory of Computation	Prof.Somenath Biswas	IIT Kanpur	https://www.youtube.com/watch?v=539Bk9fOyo&list=PLbMVogVj5nJsd25WnSU144ZyGmsqukr3&index=2	Mr.Ravinder Reddy	70
17			Introduction to FA's	Prof.Somenath Biswas	IIT Kanpur	https://www.youtube.com/watch?v=r20I_inUnv8&list=PLbMVogVj5nJsd25WnSU144ZyGmsqukr3&index=3	Mr.Ravinder Reddy	69
18			FSA WITH OUTPUT	Prof.Kamala Krithivasan	IIT Madras	https://www.youtube.com/watch?v=JbxiEz8jBg&list=PL85CF9F4A047C7BF7&index=19	Mr.Ravinder Reddy	69
19			Push Down Automata	Prof.Kamala Krithivasan	IIT Madras	https://www.youtube.com/watch?v=lhyEGNn-7Uo&list=PL85CF9F4A047C7BF7&index=23	Mr.Ravinder Reddy	65
20			Turing Machines	Prof.Kamala Krithivasan	IIT Madras	https://www.youtube.com/watch?v=lhyEGNn-7Uo&list=PL85CF9F4A047C7BF7&index=26	Mr.Ravinder Reddy	71
21		INFORMATION SECURITY	Introduction to Cryptography	Prof. Sourav Mukhopadhyay	IIT Kharagpur	https://www.youtube.com/watch?v=1pIM07ChXMU&list=PLJ5C_6qdAvBFAuGoLC2wFGruY_E2gYtev&index=1	Dr.Ch.VenuGopal	70
22			Cryptanalysis on Substitution Cipher	Prof. Sourav Mukhopadhyay	IIT Kharagpur	https://www.youtube.com/watch?v=aOFd5yf7yq4&list=PLJ5C_6qdAvBFAuGoLC2wFGruY_E2gYtev&index=3	Dr.Ch.VenuGopal	69
23			Triple DES	Prof. Sourav Mukhopadhyay	IIT Kharagpur	https://www.youtube.com/watch?v=p-kD1WEUc_w&list=PLJ5C_6qdAvBFAuGoLC2wFGruY_E2gYtev&index=8	Dr.Ch.VenuGopal	69
24			Stream Cipher	Prof. Sourav Mukhopadhyay	IIT Kharagpur	https://www.youtube.com/watch?v=qEFTTKIRLZY&list=PLJ5C_6qdAvBFAuGoLC2wFGruY_E2gYtev&index=9	Dr.Ch.VenuGopal	65
25			Public key Cryptosystem	Prof. Sourav Mukhopadhyay	IIT Kharagpur	https://drive.google.com/file/d/1hVOCYNWTF1Yr3S4P2v0txfSatwSSpyY2/view?usp=sharing	Dr.Ch.VenuGopal	71

26	III YEAR	SOFTWARE ENGINEERING	Introduction to Software Engineering	Prof.N.L.Sarda	IIT Mumbai	https://www.youtube.com/watch?v=Z6f9ckEElsU&list=PL8751DA481F0F0D17	Dr.Ch.VenuGopal	15
27			Overview of Phases	Prof.N.L.Sarda	IIT Mumbai	https://www.youtube.com/watch?v=vn6QvTb-TuQ&list=PL8751DA481F0F0D17&index=4	Dr.Ch.VenuGopal	16
28			Requirements Engineering	Prof.Umesh Bellur	IIT Mumbai	https://www.youtube.com/watch?v=wEr6mwquPLY&list=PL8751DA481F0F0D17&index=6	Dr.Ch.VenuGopal	14
29			Systems Modelling	Prof.Umesh Bellur	IIT Mumbai	https://www.youtube.com/watch?v=ayP5Ey-	Dr.Ch.VenuGopal	13
30			process Modelling	Prof.N.L.Sarda	IIT Mumbai	https://www.youtube.com/watch?v=mabRepXLGA&list=PL8751DA481F0F0D17&index=10	Dr.Ch.VenuGopal	15
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.K.RaghavaRao	15
32			Run-Time Environments	Prof.Y.N.Srikant	IISC Bangalore	https://www.youtube.com/watch?v=F3e5YXedFlo&list=PL3690D679B876DE6A&index=2	Dr.K.RaghavaRao	16
33			Code Generation	Prof.Y.N.Srikant	IISC Bangalore	https://www.youtube.com/watch?v=F3e5YXedFlo&list=PL3690D679B876DE6A&index=5	Dr.K.RaghavaRao	14
34			Global Register Allocation	Prof.Y.N.Srikant	IISC Bangalore	https://www.youtube.com/watch?v=F3e5YXedFlo&list=PL3690D679B876DE6A&index=8	Dr.K.RaghavaRao	13
35			Introduction to Machine-Independent Optimizations-	Prof.Y.N.Srikant	IISC Bangalore	https://www.youtube.com/watch?v=F3e5YXedFlo&list=PL3690D679B876DE6A&index=12	Dr.K.RaghavaRao	15
41	IV YEAR	Mobile Computing	Introduction	Dr.Pushperndra Singh	IIT Delhi	https://www.youtube.com/watch?v=ytLkrvYf6g&list=PLsK7K7rfGYke2ZfFugu2cppvNHNrdjD-u&index=1	Mrs.Soujanya	101
42			Java Basics	Dr.Pushperndra Singh	IIT Delhi	https://www.youtube.com/watch?v=ytLkrvYf6g&list=PLsK7K7rfGYke2ZfFugu2cppvNHNrdjD-u&index=2	Mrs.Soujanya	198
43			Java: Strings, OOP principles	Dr.Pushperndra Singh	IIT Delhi	https://www.youtube.com/watch?v=ytLkrvYf6g&list=PLsK7K7rfGYke2ZfFugu2cppvNHNrdjD-u&index=3	Mrs.Soujanya	99
44			Interfaces	Dr.Pushperndra Singh	IIT Delhi	https://www.youtube.com/watch?v=ytLkrvYf6g&list=PLsK7K7rfGYke2ZfFugu2cppvNHNrdjD-u&index=4	Mrs.Soujanya	105
45			Classes, Exceptions, Threads	Dr.Pushperndra Singh	IIT Delhi	https://www.youtube.com/watch?v=ytLkrvYf6g&list=PLsK7K7rfGYke2ZfFugu2cppvNHNrdjD-u&index=5	Mrs.Soujanya	103
46		DATA MINING	Introduction to KDD	Prof.Pabitra Mitra	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105174/	Dr.B.Srinivas Rao	101
47			Data Preprocessing	Prof.Pabitra Mitra	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105174/	Dr.B.Srinivas Rao	198
48			Association Rules	Prof.Pabitra Mitra	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105174/	Dr.B.Srinivas Rao	99
49			Apriori Algorithm	Prof.Pabitra Mitra	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105174/	Dr.B.Srinivas Rao	105
50			Decision Tree	Prof.Pabitra Mitra	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105174/	Dr.B.Srinivas Rao	103



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A.Y.2021-22

S NO	YEAR	SUBJECT	TOPIC	Professor Name	Professor Affiliation	source	Name of the Faculty	Students Attended
1	II-I	Probability Theory and Stochastic Processes	Random experiment, sample space, axioms of probability, probability space.	Prof.S.Dharmaraja	IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mrs.Gandham Srisatya Gowry	70
2			Type of Random Variables, Mass Function, Density Function	Prof.S.Dharmaraja	IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mrs.Gandham Srisatya Gowry	71
3			Higher Order Moments and Moments Inequalities Continued	Prof.S.Dharmaraja	IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mrs.Gandham Srisatya Gowry	72
4			Functions of several random variables continued	Prof.S.Dharmaraja	IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mrs.Gandham Srisatya Gowry	68
5			Limiting and Stationary distributions continued	Prof.S.Dharmaraja	IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mrs.Gandham Srisatya Gowry	73
6	II-I	Switching Theory and Logic Design	Signed and Unsigned Binary Number Representation	Prof.Indranil Gupta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105185/	Mrs.S Rajitha	64
7			Logic Families to Implement Gates	Prof.Indranil Gupta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105185/	Mrs.S Rajitha	65
8			Obtaining Canonical Representations of Functions	Prof.Indranil Gupta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105185/	Mrs.S Rajitha	64
9			<u>Obtaining Canonical Representations of Functions</u>	Prof.Indranil Gupta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105185/	Mrs.S Rajitha	67
10			<u>Synthesis of Synchronous Sequential Circuits</u>	Prof.Indranil Gupta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105185/	Mrs.S Rajitha	66
11	II-I	Electronic Devices and Circuits	Introduction to Basic Electronics	Dr Natarajan T.S	IIT Madras	https://www.youtube.com/watch?v=w8Dq8blTmSA&list=PL6A5175DB9EF79D22	Mr.Gugulothu Ramesh	61
12			Transistor Biasing	Dr Natarajan T.S	IIT Madras	https://www.youtube.com/watch?v=PSdHf6yozyc&list=PL6A5175DB9EF79D22&index=11	Mr.Gugulothu Ramesh	68
13			Frequency Response of Amplifiers	Dr Natarajan T.S	IIT Madras	https://www.youtube.com/watch?v=BAkaeYBZT4&list=PL6A5175DB9EF79D22&index=16	Mr.Gugulothu Ramesh	64

14			Hybrid Equivalent Circuit, H-Parameters	Dr Natarajan T.S	IIT Madras	https://www.youtube.com/watch?v=4rcopzJWayQ&list=PL6A5175DB9EF79D22&index=14	Mr.Gugulothu Ramesh	63
15			Frequency Analysis	Dr Natarajan T.S	IIT Madras	https://www.youtube.com/watch?v=4rcopzJWayQ&list=PL6A5175DB9EF79D22&index=14	Mr.Gugulothu Ramesh	68
16	II-I	Signals and Systems	Domain & Range of signal,properties	Dr K S Venkatesh	IIT Kanpur	https://nptel.ac.in/courses/117/104/117104074/	Mrs.Gummadavelli Ramya	69
17			System Introduction, Properties	Dr K S Venkatesh	IIT Kanpur	https://nptel.ac.in/courses/117/104/117104074/	Mrs.Gummadavelli Ramya	67
18			Transformations on time & Range	Dr K S Venkatesh	IIT Kanpur	https://nptel.ac.in/courses/117/104/117104074/	Mrs.Gummadavelli Ramya	66
19			Fourier Series,Fourier Transform,Properties	Dr K S Venkatesh	IIT Kanpur	https://nptel.ac.in/courses/117/104/117104074/	Mrs.Gummadavelli Ramya	67
20			Sampling theorem,Z - Transform and properties	Dr K S Venkatesh	IIT Kanpur	https://nptel.ac.in/courses/117/104/117104074/	Mrs.Gummadavelli Ramya	72
31	II-II	Electromagnetic Theory and Transmission Lines	Scalar field and its Gradient ,Line and Surface Integrals	Prof.D.K Gosh	IIT Bombay	https://nptel.ac.in/courses/115/101/115101005/	Mrs.Gummadavelli Ramya	74
32			Electric Field Potential ,Special Techniques	Prof.D.K Gosh	IIT Bombay	https://nptel.ac.in/courses/115/101/115101005/	Mrs.Gummadavelli Ramya	75
33			Special Techniques ,Magnetic Vector Potential	Prof.D.K Gosh	IIT Bombay	https://nptel.ac.in/courses/115/101/115101005/	Mrs.Gummadavelli Ramya	73
34			Equation of Continuity	Prof.D.K Gosh	IIT Bombay	https://nptel.ac.in/courses/115/101/115101005/	Mrs.Gummadavelli Ramya	71
35			Maxwells Equations and Conservation Laws	Prof.D.K Gosh	IIT Bombay	https://nptel.ac.in/courses/115/101/115101005/	Mrs.Gummadavelli Ramya	68
41	II-II	Digital Design using Verilog HDL	Introduction,Design Representation	Prof.Indranil Sen Gupta	IIT Kharagpur	https://www.youtube.com/watch?v=NdWTDZ7dg-8&list=PL3pGy4HtqwD15wr99U4CBhYqiZlwWbl12&index=3	Mr.Pandalneni Karthik	25
42			VLSI Design Concepts	Prof.Indranil Sen Gupta	IIT Kharagpur	https://www.youtube.com/watch?v=hENRfpN80SM&list=PL3pGy4HtqwD15wr99U4CBhYqiZlwWbl12&index=5	Mr.Pandalneni Karthik	24
43			Verilog Language Features,Operations	Prof.Indranil Sen Gupta	IIT Kharagpur	https://www.youtube.com/watch?v=s3Dk4CEfNg4&list=PL3pGy4HtqwD15wr99U4CBhYqiZlwWbl12&index=7	Mr.Pandalneni Karthik	23
44			Modeling Finite State Machines	Prof.Indranil Sen Gupta	IIT Kharagpur	https://www.youtube.com/watch?v=Ln7dAZtRnFY&list=PL3pGy4HtqwD15wr99U4CBhYqiZlwWbl12&index=24	Mr.Pandalneni Karthik	22

45			Synthesizable VERILOG	Prof.Indranil Sen Gupta	IIT Kharagpur	https://www.youtube.com/watch?v=RBYSzoe6i9M&list=PL3pGy4HtqwD15wr99U4CBhYqiZlwWbl12&index=29	Mr.Pandalneni Karthik	22
46	III-I	Antennas and Wave Propagation	Fundamentals of antenna	Prof.Girish Kumar	IIT Bombay	https://www.youtube.com/watch?v=wx_tlvaaJAl	Dr.P.Raj Kumar	21
47			Antenna Radiation Efficiency, Antenna Parameters	Prof.Girish Kumar	IIT Bombay	https://www.youtube.com/watch?v=gud2VREjheU	Dr.P.Raj Kumar	20
48			Beam Angle & Beam Solid Angle	Prof.Girish Kumar	IIT Bombay	https://www.youtube.com/watch?v=5Mu9FBiSTt0&list=PLgwJf8NK-2e7tzLIDL4aXUbtRFY3ykmkT&index=7	Dr.P.Raj Kumar	21
49			Polarization - linear, Circular & Elliptical Polarization	Prof.Girish Kumar	IIT Bombay	https://www.youtube.com/watch?v=Eq6NJZfqxfA&list=PLgwJf8NK-2e7tzLIDL4aXUbtRFY3ykmkT&index=17	Dr.P.Raj Kumar	22
50			Reflection Coefficient and VSWR of Antenna	Prof.Girish Kumar	IIT Bombay	https://www.youtube.com/watch?v=twZ0YbnQfDA&list=PLgwJf8NK-2e7tzLIDL4aXUbtRFY3ykmkT&index=25	Dr.P.Raj Kumar	21
51	III-I	Electronic Measurements and Instrumentation	Introduction and PMMC Instrument	Prof.Avishek Chatterjee	IIT Kharagpur	https://www.youtube.com/watch?v=3eYmFjHnQjY&list=PLbRMhDVUMngcoKrA4sH-zvbNVSE6lpEio	Mr.G.Srinivas	21
52			Damping and Eddy Current Damping	Prof.Avishek Chatterjee	IIT Kharagpur	https://www.youtube.com/watch?v=6W-k9qSj5PU&list=PLbRMhDVUMngcoKrA4sH-zvbNVSE6lpEio&index=11	Mr.G.Srinivas	21
53			Sensitivity, Accuracy, and Resolution of Wheatstone Bridge	Prof.Avishek Chatterjee	IIT Kharagpur	https://www.youtube.com/watch?v=ip6P7-gT2OE&list=PLbRMhDVUMngcoKrA4sH-zvbNVSE6lpEio&index=26	Mr.G.Srinivas	21
54			Flux density measurement with Ballistic Galvanometer	Prof.Avishek Chatterjee	IIT Kharagpur	https://www.youtube.com/watch?v=gJtxcGEg5R0&list=PLbRMhDVUMngcoKrA4sH-zvbNVSE6lpEio&index=47	Mr.G.Srinivas	24
55			Connection of Energy Meter, Wattmeter, and Three Phase Supply	Prof.Avishek Chatterjee	IIT Kharagpur	https://www.youtube.com/watch?v=9nTjCEpPZyo&list=PLbRMhDVUMngcoKrA4sH-zvbNVSE6lpEio&index=33	Mr.G.Srinivas	24

56	III-I	Analog Communications	Introduction and Frequency Domain, Time domain concepts	Prof. Aditya. k Jaganadham	IIT Kanpur	https://www.youtube.com/watch?v=F3sIBe2r8vA&list=PLq-Gm0yRYwTgX2FkPVcY6io003-tZd8Ru , https://nptel.ac.in/courses/117/105/117105143/	Mr. V. Vijaya Bhaskar	23
57			Discrete Fourier Series, Fourier and Inverse Fourier Transform	Prof. Aditya. k Jaganadham	IIT Kanpur	https://www.youtube.com/watch?v=kIlo-3f7Vio&list=PLq-Gm0yRYwTgX2FkPVcY6io003-tZd8Ru&index=5 , https://nptel.ac.in/courses/117/105/117105143/	Mr. V. Vijaya Bhaskar	25
58			Auto-Correlation of Signal, Duality Property of Fourier Transform	Prof. Aditya. k Jaganadham	IIT Kanpur	https://www.youtube.com/watch?v=1axf5-cMj5I&list=PLq-Gm0yRYwTgX2FkPVcY6io003-tZd8Ru&index=7 , https://nptel.ac.in/courses/117/105/117105143/	Mr. V. Vijaya Bhaskar	24
59			Modulation & Demodulation Techniques in Various Systems	Prof. Aditya. k Jaganadham	IIT Kanpur	https://www.youtube.com/watch?v=hnn_EhRjPa8&list=PLq-Gm0yRYwTgX2FkPVcY6io003-tZd8Ru&index=6 , https://nptel.ac.in/courses/117/105/117105143/	Mr. V. Vijaya Bhaskar	25
60			Bandwidth of FM Carson's Rule, Sampling, Aliasing, Nyquist Theorem	Prof. Aditya. k Jaganadham	IIT Kanpur	https://www.youtube.com/watch?v=m_IP3AiGfO8&list=PLq-Gm0yRYwTgX2FkPVcY6io003-tZd8Ru&index=37 , https://nptel.ac.in/courses/117/105/117105143/	Mr. V. Vijaya Bhaskar	24
61	III-I	Linear and Digital IC Applications	Introduction to IC fabrication, Sensors	Prof. Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=lv4Cj2A3ldw&list=PLuv3GM6-gsE3npYPJJdNEF3pdiH7T6Kj3&index=3	Mr. Anam Srinivasa Reddy	25
62			Process flow for Fabrication of MOSFETs	Prof. Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=88eYPWShO5c&list=PLuv3GM6-gsE3npYPJJdNEF3pdiH7T6Kj3&index=11	Mr. Anam Srinivasa Reddy	24
63			Operational Amplifier Characteristics	Prof. Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=SaJsl9_M1_w&list=PLuv3GM6-gsE3npYPJJdNEF3pdiH7T6Kj3&index=16	Mr. Anam Srinivasa Reddy	23

64			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=W70GFpflLKk&list=PLuv3GM6-gsE3npYPJJdNEF3pdiH2T6Kj3&index=24	Mr.Anam Srinivasa Reddy	22
65			Introduction to Oscillator,Noise and its Types	Prof.Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=YND4OujskA8&list=PLuv3GM6-gsE3npYPJJdNEF3pdiH2T6Kj3&index=33	Mr.Anam Srinivasa Reddy	24
66	III-II	Digital Signal Processing	Digital Signal Processing Introduction	Prof.S.C Dutta Roy	IIT Delhi	https://nptel.ac.in/courses/117/102/117102060/	Mr.Gugulothu Ramesh	25
67			LTI Systems Step & Impulse Responses, Convolution	Prof.S.C Dutta Roy	IIT Delhi	https://nptel.ac.in/courses/117/102/117102060/	Mr.Gugulothu Ramesh	24
68			Discrete Time Systems in the Frequency Domain	Prof.S.C Dutta Roy	IIT Delhi	https://nptel.ac.in/courses/117/102/117102060/	Mr.Gugulothu Ramesh	22
69			Digital Processing of Continuous Time Signals	Prof.S.C Dutta Roy	IIT Delhi	https://nptel.ac.in/courses/117/102/117102060/	Mr.Gugulothu Ramesh	24
70			IIR Design by Bilinear Transformation	Prof.S.C Dutta Roy	IIT Delhi	https://nptel.ac.in/courses/117/102/117102060/	Mr.Gugulothu Ramesh	21
71	IV-I	Microwave Engineering	Introduction to Microwave and Transmission Line Theory	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=NW1NXoM4q5c&list=PLwdnzlV3ogoUe3QVmrNzDTJYikG0IYjj-	Mrs.Y.Gayathri	160
72			Waveguides and Rectangular Waveguide,Circular,Attenuation	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=k-zeCttEYVQ&list=PLwdnzlV3ogoUe3QVmrNzDTJYikG0IYjj-&index=6	Mrs.Y.Gayathri	162
73			Scattering ,Impedence Matrix	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=oyegBQEA2e8&list=PLwdnzlV3ogoUe3QVmrNzDTJYikG0IYjj-&index=11	Mrs.Y.Gayathri	161
74			Impedance Matching Using Shunt Stub, Double Stub and Quarter wave Transformer	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=JWNvTGoByc&list=PLwdnzlV3ogoUe3QVmrNzDTJYikG0IYjj-&index=13	Mrs.Y.Gayathri	162
75			Tansmission line resonators,Gunn, IMPATT Diodes and Varactor Diodes	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=h-uD3IEOLbM&list=PLwdnzlV3ogoUe3QVmrNzDTJYikG0IYjj-&index=25	Mrs.Y.Gayathri	162

76	IV-I	Cellular and Mobile Communications	Cellular system design and analysis	Prof.David Koilpillai	IIT Madras	https://www.youtube.com/watch?v=B4FxbLvyk0o&list=PLuv3GM6-gsE3ypUYh43pPuZsXxJVG1e7F&index=9	Mr.K Abdul Khadhar	162
77			Cellular Geometry & System Design	Prof.David Koilpillai	IIT Madras	https://www.youtube.com/watch?v=28M558JVTd0&list=PLuv3GM6-gsE3ypUYh43pPuZsXxJVG1e7F&index=10	Mr.K Abdul Khadhar	164
78			Rayleigh Fading and Statistical Characterization	Prof.David Koilpillai	IIT Madras	https://www.youtube.com/watch?v=BKf2mN9W6Nk&list=PLuv3GM6-gsE3ypUYh43pPuZsXxJVG1e7F&index=15	Mr.K Abdul Khadhar	164
79			BER in Fading, Narrowband vs Wideband Channels	Prof.David Koilpillai	IIT Madras	https://www.youtube.com/watch?v=ZF09yl4Wonk&list=PLuv3GM6-gsE3ypUYh43pPuZsXxJVG1e7F&index=17	Mr.K Abdul Khadhar	158
80			Channel State Information, Optimum Power Allocation	Prof.David Koilpillai	IIT Madras	https://www.youtube.com/watch?v=3Y9xnUUBwvI&list=PLuv3GM6-gsE3ypUYh43pPuZsXxJVG1e7F&index=39	Mr.K Abdul Khadhar	154
81	IV-I	Digital image processing	Introduction to Digital Image Processing	Prof.Prabir Kumar Bisws	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105135/	Ms Rajitha	155
82			Image Digitalization, Sampling Quantization and Display	Prof.Prabir Kumar Bisws	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105135/	Ms Rajitha	157
83			Relationship of Adjacency and Connected Components Labeling	Prof.Prabir Kumar Bisws	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105135/	Ms Rajitha	157
84			Interpolation and Resampling	Prof.Prabir Kumar Bisws	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105135/	Ms Rajitha	159
85			Histogram Equalization and Specifications - I	Prof.Prabir Kumar Bisws	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105135/	Ms Rajitha	158
86	IV-I	Embedded System Design	Modeling and Synthesis issues	Dr Arnab Sarkar	IIT Guwhathi	https://nptel.ac.in/courses/106/103/106103182/	Dr.Mathew Abraham	154
87			System-level Design	Dr Arnab Sarkar	IIT Guwhathi	https://nptel.ac.in/courses/106/103/106103182/	Dr.Mathew Abraham	158
88			BDD and Symbolic Model Checking	Dr Arnab Sarkar	IIT Guwhathi	https://nptel.ac.in/courses/106/103/106103182/	Dr.Mathew Abraham	153
89			Introduction to Digital Testing & Embedded System hardware Testing	Dr Arnab Sarkar	IIT Guwhathi	https://nptel.ac.in/courses/106/103/106103182/	Dr.Mathew Abraham	155

90			Advances in Embedded System hardware Testing & Testing for Embedded Software Systems	Dr Arnab Sarkar	IIT Guwhathi	https://nptel.ac.in/courses/106/103/106103182/	Dr.Mathew Abraham	157
91	IV-II	Satellite Communication	Introduction , Orbit - 5	Prof.Kalyan Kumar	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105131/	Dr.Mathew Abraham	161
92			Space Segment -3	Prof.Kalyan Kumar Bandyopa	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105131/	Dr.Mathew Abraham	162
93			Link Budget - 1	Prof.Kalyan Kumar Bandyopa	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105131/	Dr.Mathew Abraham	163
94			Propagation -1	Prof.Kalyan Kumar Bandyopa	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105131/	Dr.Mathew Abraham	162
95			Satellite Navigation	Prof.Kalyan Kumar Bandyopa	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105131/	Dr.Mathew Abraham	162
96	IV-II	Radar Systems	Radar Bands and System Modeling	Prof.Amithabha Battacharya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105154/	Dr.P Ramanathan	159
97			CW Radar Mathematical Model and Applications	Prof.Amithabha Battacharya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105154/	Dr.P Ramanathan	158
98			Multiple prf MTI Radar and Clutter Attenuation	Prof.Amithabha Battacharya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105154/	Dr.P Ramanathan	162
99			Pulsed Doppler Radar (Contd.) and Search Radar	Prof.Amithabha Battacharya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105154/	Dr.P Ramanathan	156
100			SAR Processing ,GPR Measurements and Microwave Tomography	Prof.Amithabha Battacharya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105154/	Dr.P Ramanathan	148
101	IV-II	Wireless Communication Networks	Basics - Sensor Network and Noisy Observation Model	Prof aditya jagannatham	IIT khanpur	https://nptel.ac.in/courses/117/104/117104118/	Dr.P Ramanathan	154
102			Cramer Rao Bound (CRB) for Parameter Estimation	Prof aditya jagannatham	IIT khanpur	https://nptel.ac.in/courses/117/104/117104118/	Dr.P Ramanathan	155
103			Properties of Least Squares Estimate – Mean Covariance and Distribution	Prof aditya jagannatham	IIT khanpur	https://nptel.ac.in/courses/117/104/117104118/	Dr.P Ramanathan	160
104			Channel Equalization and Inter Symbol Interference ISI Model	Prof aditya jagannatham	IIT khanpur	https://nptel.ac.in/courses/117/104/117104118/	Dr.P Ramanathan	162
105			Introduction to Orthogonal Frequency Division Multiplexing OFDM – Cyclic Prefix CP and Circular Convolution	Prof aditya jagannatham	IIT khanpur	https://nptel.ac.in/courses/117/104/117104118/	Dr.P Ramanathan	160



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
A.Y.2021-22

SL NO	YEAR	SUBJECT	TOPIC	Professor Name	Professor Affiliation	source	Name of the Faculty	Students Attended
1	II YEAR	Electrical Machines - I	Armature Reaction	Dr D Kastha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105017/	VARUN KUMAR	35
2			Compound DC generator	Dr D Kastha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105017/	VARUN KUMAR	32
3			Testing of DC Series Motor	Dr D Kastha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105017/	VARUN KUMAR	33
4			Dc shunt generator	Dr D Kastha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105017/	VARUN KUMAR	31
5			Commutation of Dc Machines	Dr D Kastha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105017/	VARUN KUMAR	28
11		Power System - i	Structure of Power System	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102047/	GANESH	32
12			Transmission Line Parameters	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102047/	GANESH	33
13			Methods of Voltage Control	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102047/	GANESH	36
14			Underground CABLES	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102047/	GANESH	35
15			Overhead line insulators	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102047/	GANESH	27
16		Switching Theory and Logical Design	Introduction	Prof Indranil Sengupta	IIT Kharagpur	https://nptel.ac.in/courses/117/106/117106086/	SHIRISHA	32
17			BCD and Gray Code Representations	Prof Indranil Sengupta	IIT Kharagpur	https://nptel.ac.in/courses/117/106/117106086/	SHIRISHA	31
18			Logic Gates	Prof Indranil Sengupta	IIT Kharagpur	https://nptel.ac.in/courses/117/106/117106086/	SHIRISHA	32
19			Karnaugh Maps	Prof Indranil Sengupta	IIT Kharagpur	https://nptel.ac.in/courses/117/106/117106086/	SHIRISHA	32
20			Design of Counters	Prof Indranil Sengupta	IIT Kharagpur	https://nptel.ac.in/courses/117/106/117106086/	SHIRISHA	31
21		Power Electronics	GTO,SCR,IGBT	Web Content	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105066/	S.RAJITHA	33
22			Single phase fully controlled rectifier	Web Content	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105066/	S.RAJITHA	35
23			Types of DC-DC Converters	Web Content	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105066/	S.RAJITHA	35
24			AC to AC Voltage Converters	Web Content	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105066/	S.RAJITHA	32
25			sine PWM and its Realization	Web Content	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105066/	S.RAJITHA	32
26			Protection of Transmission Lines using Distance Relays - I	Web Content	IIT Bombay	https://nptel.ac.in/courses/108/101/108101039/	MADHUKAR	32

27	III YEAR	Switch Gear and Protection	Current based Relaying Scheme - I	Web Content	IIT Bombay	https://nptel.ac.in/courses/108/101/108101039/	MADHUKAR	33
28			Auto - reclosing and Synchronizing - I	Web Content	IIT Bombay	https://nptel.ac.in/courses/108/101/108101039/	MADHUKAR	32
29			TRANSFORMER PROTECTION	Web Content	IIT Bombay	https://nptel.ac.in/courses/108/101/108101039/	MADHUKAR	34
30			Generator Protection	Web Content	IIT Bombay	https://nptel.ac.in/courses/108/101/108101039/	MADHUKAR	32
31		Power System Analysis	Transmission line parameters	Prof A K Sinha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105067/	K.SRINIVAS	32
32			transmission line modelling	Prof A K Sinha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105067/	K.SRINIVAS	31
33			power flow studies	Prof A K Sinha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105067/	K.SRINIVAS	32
34			power system stability	Prof A K Sinha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105067/	K.SRINIVAS	32
35			bus impedane matrix	Prof A K Sinha	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105067/	K.SRINIVAS	33
41	IV YEAR	High Voltage DC Transmission	introduction	Prof S N Singh	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104013/	SUKANYA	32
42			Rectifier and Inverter	Prof S N Singh	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104013/	SUKANYA	33
43			power in dc distribution comparison with ac distribution	Prof S N Singh	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104013/	SUKANYA	28
44			Analysis of Converter Circuit	Prof S N Singh	IIT Kanpur	https://nptel.ac.in/courses/108/104/108104013/	SUKANYA	32
46		Utilization of Electrical Energy	instructional Objectives	Prof K N Kishore	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105060/	SUKANYA	27
47			Eye and Vision I	Prof K N Kishore	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105060/	SUKANYA	30
48			Discharge Lamps I	Prof K N Kishore	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105060/	SUKANYA	31
49			Interior Lighting	Prof K N Kishore	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105060/	SUKANYA	30
50			conclusion on illumination engineering	Prof K N Kishore	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105060/	SUKANYA	38