



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 2019-20



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DEPARTMENT OF CIVIL ENGINEERING

AY 2019-20

SL.NO.	YEAR	SUBJECT	TOPIC	Professor Name	Professor Affiliation	Source	Name of the Faculty	Students Attended
1	II YEAR	Surveying and Geomatics	Classifications of Surveying	ghosh	IIT Roorkee	https://nptel.ac.in/courses/105107122/8	Patnaik	110
2			Calculate of the Horizontal Angle and	ghosh	IIT Roorkee	https://nptel.ac.in/courses/105107122/8	Patnaik	112
3			Explain Tacheometric Surveying	Prof S.K.Ghosh	IIT Roorkee	https://nptel.ac.in/courses/105107122/8	Patnaik	119
4			Explain Modern Surveying Methods	ghosh	IIT Roorkee	https://nptel.ac.in/courses/105107157/	Patnaik	116
5			Explain Setting Out of Curves	Prof.Jayantha kumar ghosh	IIT Roorkee	https://nptel.ac.in/courses/105107157/	Mrs.Sarmilee Patnaik	113
6		Strength of materials-I	Introduction of simple stresses and strains	S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/1	Mr.H.Manjunatha	112
7			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	Mr.H.Manjunatha	112
8			Theory of simple bending – Assumptions	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/112105164/36	Mr.H.Manjunatha	119
9			Theory of pure torsion, assumptions made in theory of torsion	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/18	Mr.H.Manjunatha	116
10			Deflection of beams	S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/19	Mr.H.Manjunatha	113
11		Fluid mechanics-I	Introduction of Fluid mechanics	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/1	Dr.M.Ramesh Babu	112
12			Fluid Kinematics	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/6	Dr.M.Ramesh Babu	
13			Fluid Dynamics	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/12	Dr.M.Ramesh Babu	115
14			Darcy's equation	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/37	Dr.M.Ramesh Babu	110
15			Boundary Layer Theory	Prof Eldho	IIT Bombay	https://nptel.ac.in/courses/105101082/38	Dr.M.Ramesh Babu	118
16		Strength of materials-II	Derivation of Torsion equations of hollow	S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/	M. Bhagyashree	114
17			Assumptions made in the theory of pure torsion ,torsional moment of resistance	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/	M. Bhagyashree	112
18			Types of springs	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/	M. Bhagyashree	118
19			Deflection of close coiled helical springs under axial couple	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/105105108/	M. Bhagyashree	119
20			Mechanical properties	Prof. S.K.Bhattacharyya	IIT Kharagpur	https://nptel.ac.in/courses/112107146/	M. Bhagyashree	
21	III YEAR	Concrete Technology	Setting time of cement	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102012/4	Ms.V.Sai Neeraja	98

22			Measurement of workability	Prof Battacharjee	IIT Delhi	https://nptel.ac.in/courses/105102012/21	Ms.V.Sai Neeraja	95
23			Non destructive methods	Prof Rajkumar	IIT Kanpur	https://nptel.ac.in/courses/112104221/20	Ms.V.Sai Neeraja	97
24			Testing Hardenend concrete in detail	Prof Sudhir misra	IIT Kanpur	https://nptel.ac.in/courses/105104030/34	Ms.V.Sai Neeraja	92
25			Special concretes	Prof Sudhir misra	IIT Kanpur	https://nptel.ac.in/courses/105104030/35	Ms.V.Sai Neeraja	95
26		Design of Reinforced Concrete Structures	Limit state analysis and design of T and L beam sections.	Prof. N. Dhang	IIT Kharagpur	https://nptel.ac.in/courses/105/105/105105105/	Mrs.S.Swapna	96
27			Limit state analysis and design of section for shear and torsion.	Prof. N. Dhang	IIT Kharagpur	https://www.youtube.com/watch?v=AfHmpWlcqg4&t=1s	Mrs.S.Swapna	94
28			Detailing and Limit state design for serviceability for deflection, cracking and codal provision.	Prof. N. Dhang	IIT Kharagpur	https://www.youtube.com/watch?v=p6aDP4ycISM	Mrs.S.Swapna	95
29			Design Of Footings – Isolated (square, rectangle)	Prof. N. Dhang	IIT Kharagpur	https://www.youtube.com/watch?v=8ATp13mOhvg	Mrs.S.Swapna	97
30		Environmental	Design of Two-way Slabs	Prof. N. Dhang	IIT Kharagpur	https://www.youtube.com/watch?v=8ATp13mOhvg	Mrs.S.Swapna	98
31			Characteristics of water and waste water	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/105106119/5	Mrs. K. Maheswari	92
32			Sedimentation	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/105106119/8	Mrs. K. Maheswari	90
33			Waste water treatment	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/105106119/15	Mrs. K. Maheswari	89
34			Activated sludge process	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/105106119/16	Mrs. K. Maheswari	94
35		Transportation	Anaerobic treatment	Prof. C. Venkobachar	IIT Madras	https://nptel.ac.in/courses/105106119/23	Mrs. K. Maheswari	96
36	IV YEAR		Introduction to railway.	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/105107123/1	Mr.Md.Saleem	56
37			Introduction of Airport engineering and airport site selection	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/105107123/27	Mr.Md.Saleem	52
38			Introduction of Port and harbour engineering.	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/105107123/29	Mr.Md.Saleem	54
39			Intelligent transport systems:ITS definition	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/105107123/30	Mr.Md.Saleem	50
40			Features of harbour,planning of harbour	Prof. Rajat Rastogi	IIT Roorkee	https://nptel.ac.in/courses/105107123/31	Mr.Md.Saleem	53
41		Prestressed Concrete.	Prestressing System	Dr.A.K.Sengupta	IIT Madras	https://nptel.ac.in/courses/105106118/1	Dr.M.Nithya	58
42			Friction & Anchorage Slip	Dr.A.K.Sengupta	IIT Madras	https://nptel.ac.in/courses/105106118/9	Dr.M.Nithya	55
43			Analysis of Members Under Flexure	Dr.A.K.Sengupta	IIT Madras	https://nptel.ac.in/courses/105106118/12	Dr.M.Nithya	56
44			Analysis of Flanged Sections	Dr.A.K.Sengupta	IIT Madras	https://nptel.ac.in/courses/105106118/15	Dr.M.Nithya	54
45			Composite Sections	Dr.A.K.Sengupta	IIT Madras	https://nptel.ac.in/courses/105106118/35	Dr.M.Nithya	52



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A. Y. 2019-2020

SL NO	YEAR	SUBJECT	TOPIC	Professor Name	Professor Affiliation	source	Name of the Faculty	Students Attended
1	II YEAR	DBMS	Introduction to DBMS	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=SKT7jhPAQOE&list=PLlwC9bZ0rmjSkm1VRJROX4vP2YMif4Ebh&index=2	Mrs.Manashwini	111
2			Introduction to SQL	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=w1XdPholzWY&list=PLlwC9bZ0rmjSkm1VRJROX4vP2YMif4Ebh&index=6	Mrs.Manashwini	109
3			ER MODEL	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=cx7rBTS2dBM&list=PLlwC9bZ0rmjSkm1VRJROX4vP2YMif4Ebh&index=12	Mrs.Manashwini	106
4			Relational Data Base Design	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=K5jqNinE-pE&list=PLlwC9bZ0rmjSkm1VRJROX4vP2YMif4Ebh&index=16	Mrs.Manashwini	106
5			Storage and File Structure	Prof.Partha Pratim Dass	IIT Kharagpur	https://www.youtube.com/watch?v=QX2AF5STDB4&list=PLlwC9bZ0rmjSkm1VRJROX4vP2YMif4Ebh&index=25	Mrs.Manashwini	111
6		JAVA PROGRAMMING	Introduction to Java	Prof.Debasis Samanta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105191/	Ms.Sabitha	100
7			Java Applet Programming	Prof.Debasis Samanta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105191/	Ms.Sabitha	99
8			Inheritance	Prof.Debasis Samanta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105191/	Ms.Sabitha	111
9			Interface	Prof.Debasis Samanta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105191/	Ms.Sabitha	106
10			Exception Handling	Prof.Debasis Samanta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105191/	Ms.Sabitha	111
11		DISCRETE MATHS	Propositional Logic	Dr.Kamala Krithivasan	IIT Madras	https://www.youtube.com/watch?v=xUJFkMKS83Y	Mr.Ram Reddy	111
12			Predicates & Quantifiers	Dr.Kamala Krithivasan	IIT Madras	http://engineeringvideolectures.com/video/6026	Mr.Ram Reddy	100
13			Sets	Dr.Kamala Krithivasan	IIT Madras	http://engineeringvideolectures.com/video/6033	Mr.Ram Reddy	105
14			Equivalence Relation	Dr.Kamala Krithivasan	IIT Madras	http://engineeringvideolectures.com/video/6046	Mr.Ram Reddy	100
15			Graphs	Dr.Kamala Krithivasan	IIT Madras	http://engineeringvideolectures.com/video/6037	Mr.Ram Reddy	100
16		OPERATING SYSTEMS	Introduction to OS	Prof.Chester Rebeiro	IIT Madras	https://nptel.ac.in/courses/106/106/106106144/	Dr.A.Satyanarayana	111
17			Memory Management	Prof.Chester Rebeiro	IIT Madras	https://nptel.ac.in/courses/106/106/106106144/	Dr.A.Satyanarayana	109
18			OS Processes	Prof.Chester Rebeiro	IIT Madras	https://nptel.ac.in/courses/106/106/106106144/	Dr.A.Satyanarayana	106
19			Interrupts	Prof.Chester Rebeiro	IIT Madras	https://nptel.ac.in/courses/106/106/106106144/	Dr.A.Satyanarayana	106
20			Scheduling	Prof.Chester Rebeiro	IIT Madras	https://nptel.ac.in/courses/106/106/106106144/	Dr.A.Satyanarayana	111
21			Introduction to Graphics	Prof.Samit Bhattacharya	IIT Guwahati	https://nptel.ac.in/courses/106/103/106103224/	Mr.P.Sudheer	60
22			Introduction to 3D Graphics Pipe Line	Prof.Samit Bhattacharya	IIT Guwahati	https://nptel.ac.in/courses/106/103/106103224/	Mr.P.Sudheer	65

23	COMPUTER GRAPHICS	Boundary Representation Techniques	Prof.Samit Bhattacharya	IIT Guwahati	https://nptel.ac.in/courses/106/103/106103224/	Mr.P.Sudheer	64
24		Introduction to modeling Transformation	Prof.Samit Bhattacharya	IIT Guwahati	https://nptel.ac.in/courses/106/103/106103224/	Mr.P.Sudheer	60
25		Transformations in 3D	Prof.Samit Bhattacharya	IIT Guwahati	https://nptel.ac.in/courses/106/103/106103224/	Mr.P.Sudheer	60
26	SOFTWARE ENGINEERING	Introduction to Software Engineering	Prof.N.L.Sarda	IIT Mumbai	https://www.youtube.com/watch?v=Z6f9ckEEIsU&list=PL8751DA481F0F0D17	Dr.Sujoy Bhattacharya	60
27		Overview of Phases	Prof.N.L.Sarda	IIT Mumbai	https://www.youtube.com/watch?v=vn6QvTb-TuQ&list=PL8751DA481F0F0D17&index=4	Dr.Sujoy Bhattacharya	65
28		Requirements Engineering	Prof.Umesh Bellur	IIT Mumbai	https://www.youtube.com/watch?v=wEr6m-wquPLY&list=PL8751DA481F0F0D17&index=6	Dr.Sujoy Bhattacharya	64
29		Systems Modelling	Prof.Umesh Bellur	IIT Mumbai	https://www.youtube.com/watch?v=ayP5Ey-djgw&list=PL8751DA481F0F0D17&index=9	Dr.Sujoy Bhattacharya	60
30		process Modelling	Prof.N.L.Sarda	IIT Mumbai	https://www.youtube.com/watch?v=mabRrpmXLGA&list=PL8751DA481F0F0D17&index=10	Dr.Sujoy Bhattacharya	60
31	DATA COMMUNICATION & COMPUTER NETWORKS	Introduction to Data Communication	Prof.AjitPal	IIT Kharagpur	https://www.youtube.com/watch?v=swtH_okiDQc&list=PLUfVcb-iqn8dG1-Cn7NTEdILR3hRVgcN&index=2	Mrs.Sowjanya	60
32		Layered Architecture	Prof.AjitPal	IIT Kharagpur	https://www.youtube.com/watch?v=xHO6LjSHeo0&list=PLUfVcb-iqn8dG1-Cn7NTEdILR3hRVgcN&index=3	Mrs.Sowjanya	65
33		Data and Signal	Prof.AjitPal	IIT Kharagpur	https://www.youtube.com/watch?v=6ZGVZ7gUccE&list=PLUfVcb-iqn8dG1-Cn7NTEdILR3hRVgcN&index=4	Mrs.Sowjanya	64
34		Guided Transmission Media	Prof.AjitPal	IIT Kharagpur	https://www.youtube.com/watch?v=y7v3EAsWXA&list=PLUfVcb-iqn8dG1-Cn7NTEdILR3hRVgcN&index=6	Mrs.Sowjanya	60
35		UnGuided Media	Prof.AjitPal	IIT Kharagpur	https://www.youtube.com/watch?v=hKq1tYIVxdQ&list=PLUfVcb-iqn8dG1-Cn7NTEdILR3hRVgcN&index=7	Mrs.Sowjanya	60
41	CLOUD COMPUTING	Introduction to Cloud Computing	Dr.Rajiv Misra	IIT Patna	https://www.youtube.com/watch?v=A3FPxukInkU&list=PLFW6IRTa1g82dte3YD_7-GoZXcBiK6K9G&index=3	Dr.Dinesh	55
42		virtualization	Dr.Rajiv Misra	IIT Patna	https://www.youtube.com/watch?v=AkST9AO01x0&list=PLFW6IRTa1g82dte3YD_7-GoZXcBiK6K9G&index=4	Dr.Dinesh	50
43		Hotspot Mitigation for Virtual Machine Migration	Dr.Rajiv Misra	IIT Patna	https://www.youtube.com/watch?v=-gcROeHOH9s&list=PLFW6IRTa1g82dte3YD_7-GoZXcBiK6K9G&index=5	Dr.Dinesh	52

44	IV YEAR		Geo-Distributed Cloud Data Centers	Dr.Rajiv Misra	IIT Patna	https://www.youtube.com/watch?v=dKUXo6z6Q88&list=PLFW6IRTa1g82dte3YD_7-GoZxcBiK6K9G&index=8	Dr.Dinesh	50
45			P2P Systems in Cloud Computing	Dr.Rajiv Misra	IIT Patna	https://www.youtube.com/watch?v=-pB_YwwkMA&list=PLFW6IRTa1g82dte3YD_7-GoZxcBiK6K9G&index=20	Dr.Dinesh	50
46		DATA MINING	Introduction to KDD	Prof.Pabitra Mitra	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105174/	Dr.Ch.Srihari	50
47			Data Preprocessing	Prof.Pabitra Mitra	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105174/	Dr.Ch.Srihari	50
48			Association Rules	Prof.Pabitra Mitra	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105174/	Dr.Ch.Srihari	50
49			Apriori Algorithm	Prof.Pabitra Mitra	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105174/	Dr.Ch.Srihari	48
50			Decision Tree	Prof.Pabitra Mitra	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105174/	Dr.Ch.Srihari	55



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A.Y.2019-2020

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.VELMANI	140
2			BJT-CE,CC,CB CONFIGURATIONS	Prof. Parasuraman S	IIT Madras	https://nptel.ac.in/courses/113/106/113106062/	DR.VELMANI	120
3			JFET CONSTRUCTION ,PRINCIPLE OF OPERATION	Prof. Parasuraman S	IIT Madras	https://nptel.ac.in/courses/113/106/113106062/	DR.VELMANI	115
4			TRANSISTOR HYBRID MODEL	Prof. Sudeb Dasgupta	IIT Roorkee	https://nptel.ac.in/courses/108/107/108107142/	DR.VELMANI	121
5			H -PARAMETER IN CC,CE,CB CONFIGURATION	Prof. Sudeb Dasgupta	IIT Roorkee	https://nptel.ac.in/courses/108/107/108107142/	DR.VELMANI	103
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. Ayesha Firdous	140
7			K- MAP	Prof. D. Roychoudhury	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105080/	Dr. Ayesha Firdous	120
8			COMBINATIONAL CIRCUITS	Prof. D. Roychoudhury	IIT Kharagpur	https://nptel.ac.in/courses/117/105/117105080/	Dr. Ayesha Firdous	115
9			S-R,J-K,T,D FLIP FLOPS	Prof. S. Srinivasan	IIT Madras	https://nptel.ac.in/courses/117/106/117106086/	Dr. Ayesha Firdous	121
10			SHIFT REGISTERS	Prof. S. Srinivasan	IIT Madras	https://nptel.ac.in/courses/117/106/117106086/	Dr. Ayesha Firdous	103

11	II-I	SIGNALS AND SYSTEMS	CLASSIFICATION OF SIGNALS AND SYSTEMS	Prof. V.M. Gadre	IIT Bombay	https://nptel.ac.in/courses/117/101/117101055/	MR.M. Ranjith	140
12			LTI SYSTEMS	Prof. V.M. Gadre	IIT Bombay	https://nptel.ac.in/courses/117/101/117101055/	MR.M. Ranjith	120
13			LAPLACE TRANSFORM-ROC	Prof. V.M. Gadre	IIT Bombay	https://nptel.ac.in/courses/117/101/117101055/	MR.M. Ranjith	115
14			Z-TRANSFORM-ROC	Prof. V.M. Gadre	IIT Bombay	https://nptel.ac.in/courses/117/101/117101055/	MR.M. Ranjith	121
15			FOURIER SERIES-DIRICHLET'S CONDITION	Prof. Kushal K. Shah	IISER Bhopal	https://nptel.ac.in/courses/117/101/117101055/	MR.M. Ranjith	103
16	II-I	PROBABILITY THEORY AND STOCHASTIC PROCESS	Bay's theorem	Dr. S. Dharmaraja	IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mr.Muniya Naik	140
17			discrete,continuous and mixed random variable	Dr. S. Dharmaraja	IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mr.Muniya Naik	120
18			random vector-joint distribution function	Dr. S. Dharmaraja	IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mr.Muniya Naik	115
19			central limit theorem	Dr. S. Dharmaraja	IIT Delhi	https://nptel.ac.in/courses/111/102/111102111/	Mr.Muniya Naik	121
20			random variable	Dr. K. Suresh Kumar	IIT Bombay	https://nptel.ac.in/courses/111/101/111101004/	Mr.Muniya Naik	103
21	II-II	LAPLACE TRANSFORM, NUMERICAL METHODS & COMPLEX VARIABLES	laplace transform of derivatives and integral functions	Prof. Indrava Roy	IIT Madras	https://nptel.ac.in/courses/111/106/111106139/	Mr.Ashok	140
22			inverse laplace transform-convolution theorem	Prof. Indrava Roy	IIT Madras	https://nptel.ac.in/courses/111/106/111106139/	Mr.Ashok	120
23			newton -rapson method	Prof. Sanjeev Kumar	IIT Roorkee	https://nptel.ac.in/courses/111/107/111107105/	Mr.Ashok	115
24			range-kutta method	Prof. Sanjeev Kumar	IIT Roorkee	https://nptel.ac.in/courses/111/107/111107105/	Mr.Ashok	121
25			ragula-false method	Prof. Sanjeev Kumar	IIT Roorkee	https://nptel.ac.in/courses/111/107/111107105/	Mr.Ashok	103

26	II-II	ELECTROMAGNETIC FIELDS AND WAVES	COULOMB'S LAW	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/17/103/117103065/	Ms.G.Ramya	140
27			BIOT-SAVART LAW	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/17/103/117103065/	Ms.G.Ramya	120
28			FARADAY'S LAW	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/17/103/117103065/	Ms.G.Ramya	115
29			MAXWELL'S EQUATIONS IN DIFFERENT FORM'S	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/17/103/117103065/	Ms.G.Ramya	121
30			POYNTING VECTOR	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/17/103/117103065/	Ms.G.Ramya	103
31	II-II	ANALOG AND DIGITAL COMMUNICATIONS	INTRODUCTION OF AMPLITUDE MODULATION	Prof. Goutam Das	IIT Kharagpur	https://nptel.ac.in/courses/17/105/117105143/	Dr. Velmani R	140
32			SSB MODULATION	Prof. Goutam Das	IIT Kharagpur	https://nptel.ac.in/courses/17/105/117105143/	Dr. Velmani R	120
33			FREQUENCY MODULATION	Prof. Goutam Das	IIT Kharagpur	https://nptel.ac.in/courses/17/105/117105143/	Dr. Velmani R	115
34			pulse code modulation	Prof. S.N. Merchant	IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Dr. Velmani R	121
35			dpcm	Prof. S.N. Merchant	IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Dr. Velmani R	103
41	II-II	ELECTROMAGNETIC THEORY AND TRANSMISSION LINES	Introduction to EM waves and various techniques of communication	R.K.Shevgankar	IIT Bombay	https://www.youtube.com/watch?v=0OwmYAljz4A	Ms.G.Ramya	140
42			BIOT-SAVART LAW	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/17/103/117103065/	Ms.G.Ramya	120
43			FARADAY'S LAW	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/17/103/117103065/	Ms.G.Ramya	115
44			MAXWELL'S EQUATIONS IN DIFFERENT FORM'S	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/17/103/117103065/	Ms.G.Ramya	121
45			POYNTING VECTOR	Dr. Ratnajit Bhattacharjee	IIT Guwahati	https://nptel.ac.in/courses/17/103/117103065/	Ms.G.Ramya	103
46			Introduction to IC fabrication,Sensors	Prof.Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=lv4Cj2A3ldw&list=PLuv3GM6-gsE3npYPJJDnEF3pdiHZT6Kj3&index=3	Mr.I. V Prakash	105

47	III-I	LINEAR AND DIGITAL IC APPLICATIONS	Process flow for Fabrication of MOSFETs	Prof.Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=88eYPWShO5c&list=PLuv3GM6-gsE3npYPJJDnEF3pdiHZT6Kj3&index=11	Mr.I. V Prakash	95
48			Operational Amplifier Characteristics	Prof.Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=SaJsL9_M1_w&list=PLuv3GM6-gsE3npYPJJDnEF3pdiHZT6Kj3&index=16	Mr.I. V Prakash	85
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=W70GFpflLkK&list=PLuv3GM6-gsE3npYPJJDnEF3pdiHZT6Kj3&index=24	Mr.I. V Prakash	110
50			Introduction to Oscillator,Noise and its Types	Prof.Hardhik J Pandya	IISc Bangalore	https://www.youtube.com/watch?v=YND4OuisK8&list=PLuv3GM6-gsE3npYPJJDnEF3pdiHZT6Kj3&index=33	Mr.I. V Prakash	98
51			III-I	DIGITAL COMMUNICATIONS	introduction to digital communication	Prof.Bikash. Kumar	IIT Bombay	https://www.youtube.com/watch?v=qQcpnmJNluU
52	DPCM	Prof. S.N. Merchant			IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Mr.Valiki Vijayabhasker	95
53	DM	Prof. S.N. Merchant			IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Mr.Valiki Vijayabhasker	85
54	ASK and PSK	Prof. S.N. Merchant			IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Mr.Valiki Vijayabhasker	110
55	QPSK	Prof. S.N. Merchant			IIT Bombay	https://nptel.ac.in/courses/108/101/108101113/	Mr.Valiki Vijayabhasker	98
56			ANTENNA PARAMETERS :RADIATED POWER,RADIATION PATTERN , FIELD REGIONS	Dr. Amalendu Patnaik	IIT Roorkee	https://nptel.ac.in/courses/117/107/117107035/	Mr.I. V Prakash	105
57			HALF WAVE DIPOLE AND ITS PROPERTISE	Dr. Amalendu Patnaik	IIT Roorkee	https://nptel.ac.in/courses/117/107/117107035/	Mr.I. V Prakash	95

58	III-II	ANTENNAS AND WAVE PROPAGATION	RELATION BETWEEN WIRE AND APERTURE ANTENNAS, HORN ANTENNA DESIGN PRINCIPLES	Dr. Amalendu Patnaik	IIT Roorkee	https://nptel.ac.in/courses/117/107/117107035/	Mr. I. V Prakash	85		
59			PRINCIPLES OF FREQUENCY-INDEPENDENT ANTENNA	Dr. Amalendu Patnaik	IIT Roorkee	https://nptel.ac.in/courses/117/107/117107035/	Mr. I. V Prakash	110		
60			N-ELEMENT ARRAY, UNIFORM ARRAY, ARRAY FACTOR	Dr. Amalendu Patnaik	IIT Roorkee	https://nptel.ac.in/courses/117/107/117107035/	Mr. I. V Prakash	98		
61	III-II	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. Khaja Mujeebuddin Quadry	105		
62					8051 ARCHITECTURE - MICRO CONTROLLER	Prof. Santanu Chattopadhyay	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105102/	Dr. Khaja Mujeebuddin Quadry	95
63					ARM ARCHITECTURE- PIPELINE	Prof. Santanu Chattopadhyay	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105102/	Dr. Khaja Mujeebuddin Quadry	85
64					KEYBOARD INTERFACE TO 8051	Prof. Shaik Rafi Ahamed	IIT Guwahati	https://nptel.ac.in/courses/108/103/108103157/	Dr. Khaja Mujeebuddin Quadry	110
65					I/O INTERFACE TO 8051	Prof. Shaik Rafi Ahamed	IIT Guwahati	https://nptel.ac.in/courses/108/103/108103157/	Dr. Khaja Mujeebuddin Quadry	98
66					INTRODUCTION TO DIGITAL SIGNAL PROCESSING, LTI SYSTEMS	Prof. V. M. Gadre	IIT Bombay	https://nptel.ac.in/courses/108/101/108101174/	Dr. Ayesha Firdous	105
67			DISCRETE TIME FOURIER TRANSFORM	Prof. V. M. Gadre	IIT Bombay	https://nptel.ac.in/courses/108/101/108101174/	Dr. Ayesha Firdous	95		

68	III-II	DIGITAL SIGNAL PROCESSING	Z-TRANSFORM	Prof. V. M. Gadre	IIT Bombay	https://nptel.ac.in/courses/108/101/108101174/	Dr. Ayesha Firdous	85
69			STEPS FOR FIR FILTER DESIGN	Prof. V. M. Gadre	IIT Bombay	https://nptel.ac.in/courses/108/101/108101174/	Dr. Ayesha Firdous	110
70			BUTTER WORTH FILTER DERIVATION AND ANALYSIS	Prof. V. M. Gadre	IIT Bombay	https://nptel.ac.in/courses/108/101/108101174/	Dr. Ayesha Firdous	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=PLwdnzlV3ogoUe3QVmRNzDTJYikG0lYji-	Dr. G Sudhagar	80
72			Waveguides and Rectangular Waveguide,Circular,Attenuation	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=kzeCttEYVQ&list=PLwdnzlV3ogoUe3QVmRNzDTJYikG0lYji-&index=6	Dr. G Sudhagar	75
73			Scattering ,Impedence Matrix	Prof.Ratnajit Bhattacharjee	IIT Guwahathi	https://www.youtube.com/watch?v=oyegBQEA2e8&list=PLwdnzlV3ogoUe3QVmRNzDTJYikG0lYji-&index=11	Dr. G Sudhagar	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=PLwdnzlV3ogoUe3QVmRNzDTJYikG0lYji-&index=13	Dr. G Sudhagar	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=PLwdnzlV3ogoUe3QVmRNzDTJYikG0lYji-&index=25	Dr. G Sudhagar	82
76	IV-I	EMBEDEED SYSTEM DESIGN	INTRODUCTION TO EMBEDDED SYSTEMS	Prof.Dhananjanay V. Gadre	IIT Jammu	https://nptel.ac.in/courses/108/102/10810216	Ms.K Archana	80
77			GENERAL PURPOSE PROCESSORS	Prof. A. Routray	IIT Kharagpur	https://nptel.ac.in/courses/108/105/108105057/	Ms.K Archana	75
78			SENSORS AND ACTUATORS	Prof. Indranil Sengupta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105193/	Ms.K Archana	70

79			MEMORY ORGANISATION:ROM, RAM	Prof. Santanu Chaudhary	IIT Delhi	https://nptel.ac.in/courses/108/102/108102045/	Ms.K Archana	78		
80			COMMUNICATION INTERFACE	Prof. Santanu Chaudhary	IIT Delhi	https://nptel.ac.in/courses/108/102/108102045/	Ms.K Archana	82		
81	IV-I	VLSI DESIGN	INTRODUCTION TO IC TECHNOLOGY	Prof. A.N. Chandorkar	IIT Bombay	https://nptel.ac.in/courses/117/101/117101004/	Dr.Khaja Mujeebuddin Quadry	80		
82			PROPERTIES OF MOS CIRCUITS	Prof. Sudeb Dasgupta	IIT Roorkee	https://nptel.ac.in/courses/108/107/108107129/	Dr.Khaja Mujeebuddin Quadry	75		
83			CMOS INVERTER	Prof. Sudeb Dasgupta	IIT Roorkee	https://nptel.ac.in/courses/108/107/108107129/	Dr.Khaja Mujeebuddin Quadry	70		
84			VLSI DESIGN FLOW	Prof. Indranil Sengupta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105161/	Dr.Khaja Mujeebuddin Quadry	78		
85			TEST PATTERN GENERATION	Prof. Indranil Sengupta	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105161/	Dr.Khaja Mujeebuddin Quadry	82		
86			IV-II	NETWORK SECURITY CRYPTOGRAPHY	DATA ENCRYPTION STANDARD	Prof. Sourav Mukhopadhyay	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105162/	MS JEEVAN JYOTI	80
87					FERMAT'S AND EULER'S THEOREM	Prof. Sourav Mukhopadhyay	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105162/	MS JEEVAN JYOTI	75
88	INTRODUCTION TO CRYPTOGRAPHY	Prof. Sourav Mukhopadhyay			IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105162/	MS JEEVAN JYOTI	70		
89	MESSAGE AUTHENTICATION	Prof. Sourav Mukhopadhyay			IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105162/	MS JEEVAN JYOTI	78		

90			DIGITAL SIGNATURE	Prof. Sourav Mukhopadhyay	IIT Kharagpur	https://nptel.ac.in/courses/106/105/106105162/	MS JEEVAN JYOTI	82
91	IV-II	ANALOG CMOS INTEGRATED DESIGN	INTRODUCTION TO MOS FUNDAMENTALS	Prof. A.N. Chandorkar	IIT Bombay	https://nptel.ac.in/courses/117/101/117101105/	Ms.G.Ramya	80
92			MOS AMPLIFIER	Prof. A.N. Chandorkar	IIT Bombay	https://nptel.ac.in/courses/117/101/117101105/	Ms.G.Ramya	75
93			DIFFERENTIAL AMPLIFIER	Prof. A.N. Chandorkar	IIT Bombay	https://nptel.ac.in/courses/117/101/117101105/	Ms.G.Ramya	70
94			CURRENT SOURCES	Prof. A.N. Chandorkar	IIT Bombay	https://nptel.ac.in/courses/117/101/117101105/	Ms.G.Ramya	78
95			CMOS OPERATIONAL AMPLIFIER	Prof. A.N. Chandorkar	IIT Bombay	https://nptel.ac.in/courses/117/101/117101105/	Ms.G.Ramya	82



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DEPARTMENT OF ELECTRICALS AND ELECTRONICS ENGINEERING
AY 2019-20

SL NO	YEAR/SEM	SUBJECT	TOPIC	Professor Name	Professor Affiliation	source	Name of the Faculty	Students Attended
1	II YEAR	Electrical Circuit Analysis	Introduction to KCL and Kvl	Prof Tapas Kumar Bhattachariya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/1/08105159/	N GANESH	30
2			mesh and nodal analysis with time varying source	Prof Tapas Kumar Bhattachariya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/1/08105159/	N GANESH	40
3			expression for complex power in ac circuit	Prof Tapas Kumar Bhattachariya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/1/08105159/	N GANESH	42
4			Thevenin and Nortons Theorem	Prof Tapas Kumar Bhattachariya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/1/08105159/	N GANESH	45
5			Maximum Power Transfer Theorem	Prof Tapas Kumar Bhattachariya	IIT Kharagpur	https://nptel.ac.in/courses/108/105/1/08105159/	N GANESH	48
6		Electrical Machines - I	DC Machines introduction and constructional features	Prof Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/1/08102146/	DR.ABDUL KAREEM	46
7			Emf and torque equation of dc machines	Prof Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/1/08102146/	DR.ABDUL KAREEM	42
8			DC Generator Characteristics	Prof Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/1/08102146/	DR.ABDUL KAREEM	50
9			Transformer Amp turn balance	Prof Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/1/08102146/	DR.ABDUL KAREEM	53
10			Equivalent circuit of transformers	Prof Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/1/08102146/	DR.ABDUL KAREEM	54
11		Power System - I	Structure of Power System	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/1/08102047/	DR.ABDUL KAREEM	38
12			Transmission Line Parameters	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/1/08102047/	DR.ABDUL KAREEM	36
13			Methods of Voltage Control	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/1/08102047/	DR.ABDUL KAREEM	45
14			Underground CABLES	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/1/08102047/	DR.ABDUL KAREEM	44
15			Overhead line insulators	Prof D P Kothari	IIT Delhi	https://nptel.ac.in/courses/108/102/1/08102047/	DR.ABDUL KAREEM	52
16		Switch Gear and Protection	Protection of Transmission Lines using Distance Relays - I	Prof Bhaveshkumar Bhalja	IIT Roorkee	https://nptel.ac.in/courses/108/107/1/08107167/	A Naresh	34
17			Current based Relaying Scheme I	Prof Bhaveshkumar Bhalja	IIT Roorkee	https://nptel.ac.in/courses/108/107/1/08107167/	A Naresh	39
18			Auto - reclosing and Synchronizing - I	Prof Bhaveshkumar Bhalja	IIT Roorkee	https://nptel.ac.in/courses/108/107/1/08107167/	A Naresh	41

19	III YEAR	Power Electronics	TRANSFORMER PROTECTION	Prof Anurag	ETIP	https://www.youtube.com/watch?v=60T4AwYljG4	A Naresh	44	
20			Generator Protection	Prof Anurag	ETIP	https://www.youtube.com/watch?v=ZkiZUJELakM	A Naresh	43	
21			Operation of Diodes and SCR (characteristics)	Prof G Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102145/	N.Bheemaiah	39	
22			Single phase uncontrolled rectifiers and single phase controlled rectifiers	Prof G Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102145/	N.Bheemaiah	54	
23			Dual converter and communication overlap	Prof G Bhuvaneshwari	IIT Delhi	https://nptel.ac.in/courses/108/102/108102145/	N.Bheemaiah	58	
24			AC Voltage Controller	Prof Madhusudhan	Learn and Grow	https://www.youtube.com/watch?v=jT4kw7lr_O0	N.Bheemaiah	52	
25			Power System - II	Voltage Regulation	Prof D P Kothari	IIT Delhi	http://www.nptelvideos.in/2012/11/power-sys-generation-transmission.html	G SANTOSH	49
26				Capacitance of Transmission Lines	Prof D P Kothari	IIT Delhi	http://www.nptelvideos.in/2012/11/power-sys-generation-transmission.html	G SANTOSH	58
27				Nominal T Network	prof kamakshaiah	Gate Academy	Nominal T Model Lecture 8 PSA - YouTube	G SANTOSH	51
28				Sag in power system	prof rajesh	learn	Why Sag in Transmission lines? (plz use speakers) - YouTube	G SANTOSH	50
30	IV YEAR	Electrical Distribution Systems	Introducton to Electrical Distribution System	Prof G B Kumbhar	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Electrical Distribution System Analysis	Naveen Kumar. D	49	
31			Sirect Approach for Short circuit Analysis LLG and LLLG Fault	Prof G B Kumbhar	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Electrical Distribution System Analysis	Naveen Kumar. D	45	
32			Models of Distribution Lines and Cables	Prof G B Kumbhar	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Electrical Distribution System Analysis	Naveen Kumar. D	57	
33			Gauss Implicit Z-matrix Method	Prof G B Kumbhar	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Electrical Distribution System Analysis	Naveen Kumar. D	56	
34		Flexiable AC Transmission System	Introduction of FACTS	Prof Avik Bhattacharya	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Facts Devices	P Pravalika	56	
35			Static VAR Compensator	Prof Avik Bhattacharya	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Facts Devices	P Pravalika	52	
36			Statcom	Prof Avik Bhattacharya	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Facts Devices	P Pravalika	50	
37			Series Compensator	Prof Avik Bhattacharya	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Facts Devices	P Pravalika	55	
38			TCSC and UPFC	Prof Avik Bhattacharya	IIT Roorkee	NPTEL :: Electrical Engineering - NOC:Facts Devices	P Pravalika	48	