



CAMBRIDGE INSTITUTE OF TECHNOLOGY

K.R. PURAM, BANGALORE – 560 036, Ph: 080-2561 8798 / 2561 8799

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Department of Electrical & Electronics Engineering

Innovations by the Faculty in Teaching and Learning

SL. No.	Faculty Name	Subject	Innovations
1	Mohandas R	Output Equation of 3-phase alternator	https://youtu.be/zIt61w8eE-o
2	Mohandas R	Problems on D and L for alternator	https://youtu.be/XOAums5VI6Y
3	Mohandas R	Factors to be considered for selecting number of stator slots of alternator.	https://youtu.be/LiE56pP_2K8
4	V.K. Gupta	Computer Aided Electrical Drawing	https://youtu.be/ZpJv23wVG4s
5	K.G. Nagaraja	Control System / Root Locus	https://youtu.be/fhB2fmmDVPE
6	K.P. Shivamurthy	Realization of IIR filters - Lattice Ladder structure	https://youtu.be/TGs3naPwIco
7	K.G. Nagaraja	Control System / Root Locus	https://youtu.be/_KbU5GyQPmc
8	K.G. Nagaraja	Control System / Root Locus	https://youtu.be/-8JktLsZQPQ
9	K.G. Nagaraja	Control System / Root Locus	https://youtu.be/eM_LD4H9h60
10	V.K. Gupta	Power Generation and Economics - HRC Fuse	https://youtu.be/o43nYP5LSxk
11	V.K. Gupta	Computer Aided Electrical Drawing - VI EEE / CAED / DC Machine / Commutator	https://youtu.be/6Qrm7JkxFuM
12	V.K. Gupta	Computer Aided Electrical Drawing - VI EEE / CAED / DC Machine	https://youtu.be/AOeOq3Qzbbg
13	K.P. Shivamurthy	Realization of IIR Filters - Direct form I & II Structures for IIR Filters	https://youtu.be/7ldov8s1LSY
14	Mohandas R	Problems continued on D and L of stator design	https://youtu.be/SQprsP834Rc
15	Manasa GP	Electric Motors - Effect of slip on rotor parameters.	https://youtu.be/ZVIU-HmS-nU
16	Archana K	Transmission & Distribution - Grading of cables, Transmission & Distribution	https://youtu.be/8C7RVYVtW-c
17	K.P. Shivamurthy	Operation and maintenance of Solar Electric Systems, Installing Grid connected PV systems	https://youtu.be/OODw1Ehr9YM



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18	K.G. Nagaraja	Control System – Bode Plot	https://youtu.be/r5HfsCk1prQ
19	Manasa G P	Losses Power flow Equivalent circuit Three-phase induction motor	https://youtu.be/RnG1HRqbLxQ
20	Sujatha B G	Fuels used in gas turbine plants and types of gas turbine plants	https://youtu.be/r9QkvxAJjUg
21	Manasa G P	AC Servomotor.	https://youtu.be/uK-CEmjy_I
22	Madhushree R	Basic Electrical Engineering - Single phase transformers	https://youtu.be/vHp4VZprdNQ
23	Sujatha B G	Power System Operation & Control	https://youtu.be/LPRu7Fa2Ei0
24	Manasa G P	Electric Motors – Torque Equation	https://youtu.be/0V0u651srB4
25	Mohandas R	Estimation of length of air gap in synchronous machine	https://youtu.be/svts9X_8J0o
26	Madhushree R	Basic Electrical Engineering - Single phase transformers	https://youtu.be/ThfUM4wDqBE
27	Sathya K	R-2R Ladder network, Operational amplifiers and linear integrated circuits	https://youtu.be/ViHFoDOVsw0
28	Chaithanya D	R-2R Ladder network, Operational amplifiers and linear integrated circuits	https://youtu.be/nYmkUnXKBiE
29	K.P. Shivamurthy	Design of Analog Butterworth Low pass filter	https://youtu.be/LDa9zGE3ZyA
30	Manasa G P	Starters of three phase induction motor	https://youtu.be/ZNue5kHPPIQ
31	Sujatha B G	Factors related to economics of power generation, and cost analysis of power plant.	https://youtu.be/jk7F050kd2g
32	K.G. Nagaraja	Bode Plot	https://youtu.be/HlxunI06gmU
33	Sujatha B G	Tie line bias control for two area system and state space model of isolated system	https://youtu.be/d_-gbXFY7Qs
34	V K Gupta	Substation Equipment	https://youtu.be/8S5H7i22RZM
35	Shraddha G	Industrial Drives and Application- Variable Frequency Voltage Control (VFVC)	https://youtu.be/yN34gXuWAwg
36	K.G. Nagaraja	RH Stability	https://youtu.be/a9H5XkC2fds



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37	Manasa G P	V & inverted-V curves Variable Excitation operation Synchronous Motors.	https://youtu.be/cjbLrnGgnFs
38	Sathya K	R-2R Ladder derivation, Opamp and Linear integrated circuits	https://youtu.be/WwrwsQdgeSw
39	K.G. Nagaraja	Hunting in Synchronous motors Synchronous condensers	https://youtu.be/ETCMFLm_6Tw
40	Hema A	Power System Analysis 1- Symmetrical Components Part 1	https://youtu.be/k9x7EXgrYPs
41	Archana K	T & D/Module 4-CORONA	https://youtu.be/t0E_QRZGWGk
42	Sujatha B G	Supplementary control using proportional integral controller	https://youtu.be/BqoxoOI3vpw
43	K.G. Nagaraja	Bode Plot	https://youtu.be/banA1IGi8QY
44	Shraddha G	Industrial Drives and Application - VSI and CSI	https://youtu.be/eO6yrXxqNjQ
45	Chaithanya D	Protective devices Fuse MCB	https://youtu.be/2VuIrGSTb1A
46	Chaithanya D	Electric Shock , Earthing, Types of Earthing	https://youtu.be/6yM-F8OsIsU
47	K.P. Shivamurthy	Design of analog chebyshev I filters	https://youtu.be/dIS3CJaMshk
48	K.G. Nagaraja	Inductance of Toroidal coil	https://youtu.be/MIGX2lo1JA0
49	Mohandas R	Factors that influence the choice of magnetic and electrical loading of DC machine	https://youtu.be/oPBIcVE0Qy0
50	Sujatha B G	State space modelling of 2 area system and issues in AGC implementation	https://youtu.be/c-Ov8htBblo
51	K.P. Shivamurthy	Solution of difference Equation,	https://youtu.be/v-MuQXBewio
52	Manasa G P	V and Inverted V curves of Synchronous Motor.	https://youtu.be/hKC_3DPInE
53	Hema A	Symmetrical Components Part 5 - Sequence Impedance and Sequence Networks	https://youtu.be/JBnMmuOwFMk
54	Archana K	Nominal Pi Model, vector diagram , corresponding sending end voltage and current, ABCD parameters for the transmission lines	https://youtu.be/bDNNIsXrVd4
55	K.P. Shivamurthy	Design of digital IIR filter using Bilinear Transformation	https://youtu.be/_zy_hBaKIhQ



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56	K.P. Shivamurthy	Program to find DFT and IDFT using FFT(MATLAB)	https://youtu.be/ebH4bWeiYEk
57	K.P. Shivamurthy	Program to find linear and circular convolution using MATLAB	https://youtu.be/qEURDcqmfMc
58	Manasa G P	Field Test on DC series Motor	https://youtu.be/e7fIDzM7A1I
59	Hema A	Power System Analysis -1 -Unsymmetrical Fault Analysis Part1 -	https://youtu.be/qtdtYwVUtMs
60	V.K.Gupta	Computer Aided Electrical drawing	https://youtu.be/jk2BakgF-8E
61	V.K.Gupta	Computer Aided Electrical drawing	https://youtu.be/eicgbt4PxsM
62	Sathya K	Monostable multivibrator, Opamp and LIC, VTU, Module 5	https://youtu.be/mYrEQjsphW0
63	K.P. Shivamurthy	Numericals on FIR filters using window technique	https://youtu.be/jeiXoVKG4Pc
64	Archana K	Control Systems Lab	https://youtu.be/RY2yPv7m4ns
65	Sathya K	Low pass filter and High pass filter lab Experiment	https://youtu.be/Xhpp8aPJQtc
66	Archana K	Control systems Lab(17EEL67	https://youtu.be/mrta4cAo4V4
67	D. A. Karthik	Webinar on "Latest Technologies in Automotive Industries" on 12/06/2020	https://youtu.be/6rSLERGd7Bk
68	Mohandas R	Problems based on width , height and over-all dimensions of window of transformers	https://youtu.be/Xe4ZHW9efVk
69	Mohandas R	Problems based on winding details of Transformer	https://youtu.be/BldEbp2VVEs
70	Mohandas R	Problems based on no load current of transformer design	https://youtu.be/FJS8_ZcjfR8
71	K.G. Nagaraja	EMF Theory	https://youtu.be/-KPIvHzA-pA
72	K.G. Nagaraja	Grading of cables	https://youtu.be/Rh_QB3KhYd0
73	Mr. Yogananda B S	Webinar on "Introduction to the world of PLC"	https://youtu.be/vGM3ZPviirI
74	Sreerupa Sil	Webinar on "New Age Resume Buliding"	https://youtu.be/JtinPeOoqDI
75	Sathya K	High voltage	https://youtu.be/mYc5Ey8qWKM
76	Archana K	High Voltage Engineering(17EE73) Introduction video	https://youtu.be/oWPbBdr9_6c
77	Archana K	3 phase AC generator	https://youtu.be/LKK-e2P_7Ks



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78	Archana K	3 phase Induction motor	https://youtu.be/0B_zqz6jBw
79	Madhushree R	Single Phase Transformers	https://youtu.be/KIHYdwFVo0I
80	Madhushree R	Domestic Wiring	https://youtu.be/fZENIsSpWqw
81	Chaithanya D	Introduction to DC Circuits & AC Fundamentals	https://youtu.be/OpmltFfLUKw
82	Chaithanya D	Introduction to DC Generators and DC Motors/Module 4	https://youtu.be/VLfkY3aXqu0
83	Sujatha B G	Power System Operation and Control	https://youtu.be/dIkLKBHhgXc
84	V K Gupta	Computer Aided Electrical Drawing	https://youtu.be/GCQORvDJc9w
85	K P Shivamurthy	Operation and Maintenance of Solar Electric System	https://youtu.be/V22PR0guNXQ
86	Sathya K	Sensors and Transducers	https://youtu.be/xBzoqejtL44
86	Sathya K	Sensors and Transducers	https://youtu.be/o-KTif489OI
87	K G Nagaraja	Control Systems	https://youtu.be/HBcJTAwQIF4
88	Mohandas R	Electrical Machine Design	https://youtu.be/IfxyDP_xepI
89	V K Gupta	Power Generation and Economics	https://youtu.be/QvX0XHSWvX0
90	V K Gupta	Power Generation and Economics	https://youtu.be/Zvype5vRBgo
91	Archana K	Transmission and Distribution	https://youtu.be/5GI7KA_s4ME
92	Archana K	Transmission and Distribution	https://youtu.be/A6hjKRjSALs
93	K P Shivamurthy	Operation and Maintenance of Solar Electric System	https://youtu.be/frMHEm3tecc
94	Mohandas R	Electrical Machine Design	https://youtu.be/WsoCnePfxDU
95	Hema A	Power System Analysis I	https://youtu.be/aGS1Uyq5mZE
96	K P Shivamurthy	Digital Signal Processing	https://youtu.be/zXQaEX4EWkw
97	Sujatha B G	Power Generation and Economics	https://youtu.be/fyPUPXIfrBo
98	V K Gupta	Computer Aided Electrical Drawing	https://youtu.be/4Rf9B00foTk
99	Archana K	Transmission and Distribution	https://youtu.be/giZucj2wsI
100	K G Nagaraja	Control Systems	https://youtu.be/01W2jyk_mNg
101	K G Nagaraja	Control Systems	https://youtu.be/ERGmg4TcY1U
102	K G Nagaraja	Control Systems	https://youtu.be/Z7dphWwzZso
103	Mr. Ashir.P.N.P.	Webinar on Innovation, Manufacturing & Startups by Mr.Ashir.P.N.P	https://youtu.be/xL6bRX3ISi4



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104	Archana K	Transmission and Distribution	https://youtu.be/nZtmSLUKtbU
105	Manasa G P	Electrical Machine Lab 2	https://youtu.be/K1vtRqYD-dI
106	Archana K	Control Systems	https://youtu.be/NRBV6FepTlo
107	Hema A	Power System Analysis I	https://youtu.be/LTZCdAFMzm0
108	Sujatha B G	Power System Operation and Control	https://youtu.be/57KkMZPzGMw
109	Hema A	Power System Analysis I	https://youtu.be/PqzzY5gIpw8
110	Mohandas R	Electrical Machine Design	https://youtu.be/n3yEaK34MnQ
111	Sujatha B G	Power System Operation and Control	https://youtu.be/gpLKbAdRje4
112	Mohandas R	Electrical Machine Design	https://youtu.be/l_MEdx6jECI
113	Mohandas R	Electrical Machine Design	https://youtu.be/33gipw330sU
114	Manasa G P	Electrical Machine Lab 2	https://youtu.be/N-ZdIDdUNNw
115	Manasa G P	Electrical Machine Lab 2	https://youtu.be/_CIjvIkVJEo
116	Mohandas R	Electrical Machine Design	https://youtu.be/hQwfNslwj3k
117	Manasa G P	Electrical Machine Lab 2	https://youtu.be/eC6HmbJxWAI
118	Manasa G P	Electrical Machine Lab 2	https://youtu.be/WrH6Orh00tE
119	Manasa G P	Electrical Machine Lab 2	https://youtu.be/nYQUE6HaheA
120	Shraddha G	Industrial Drives and Applications	https://youtu.be/kLGLaTC2oug
121	Shraddha G	Industrial Drives and Applications	https://youtu.be/aWBFgrnLr1Y
122	Sujatha B G	Power System Operation and Control	https://youtu.be/F_Va_yTXe7Q
123	Shraddha G	Industrial Drives and Applications	https://youtu.be/4jjY16plcBE
124	Sujatha B G	Power System Operation and Control	https://youtu.be/f2pbKsl4Ag
125	Sujatha B G	Control System LAB	https://youtu.be/V5fxm5_NZ5c
126	Archana K	Transmission and Distribution	https://youtu.be/mbRSJW7r52U
127	K P Shivamurthy	Digital System Processing	https://youtu.be/7aQT47z0qfg
128	K P Shivamurthy	Digital System Processing	https://youtu.be/JZZhsJbTWaA
129	K P Shivamurthy	Digital System Processing LAB	https://youtu.be/WJ-bjp6wENk
130	Sathya K	Opamp and Linear Integrated circuit LAB	https://youtu.be/amp6MvOZyyo
131	Sathya K	Operational Amplifiers and Linear ICS	https://youtu.be/5bYPULXhkE0
132	Madhushree R	Basic Electrical Engineering Lab: Measurement of	https://youtu.be/AHbzKCro7Co



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		phase and line quantities in Star and Delta connected system	
133	Chaitanya Danamaraju	Basic Electrical Engineering Lab - KVL	https://www.youtube.com/watch?v=DUOcZYDOAsA&t=39s
134	Chaitanya Danamaraju	BEE - Three Phase Circuits Relationship between Phase & Line quantities in Star and Delta balanced loads	https://www.youtube.com/watch?v=ggEgwe8NtxQ&t=96s
135	Chaitanya Danamaraju	Electric shock, Earthing, Pipe earthing, Plate earthing	https://www.youtube.com/watch?v=d2Dn9a5puvA&t=83s