PRAGATI ENGINEERING COLLEGE (Autonomous)

1-378, ADB Road, Surampalem, E.G.District, A.P. - 533 437

(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada & Accredited by NAAC with 'A'Grade)

(Recognised by UGC Under Sections 2 (f) and 12 (b) of UGC act, 1956)

Ph: 08852 - 252233, 252234, 252235, Fax: 252232, Website: www.pragati.ac.in

(Sponsored by Gayatri Educational Society)

D.No. 2-24-4/2, Ground Floor, Janmabhoomi Park Road, Srinagar, Kakinada - 3, Ph: 0884 - 2355900, Fax: 2363900

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty Prepared Training Materials for GATE/Placement

S.no	Name of the faculty	Training Material	Availability	
1	P.Vijaya Prasuna	Network Theory -I		
2	S.Varalakshmi	Network Theory-II		
3	Sheik Mahaboob Shariff	Electrical Machines-I	Duranti E la mina Dantal	
4	M.Mani shankar	Electrical Machines-II	Pragati E-learning Portal	
5	K.Siva sankar	Control Systems	https://pragatiengg.org/	
6	D.Krishna Chaitanya	Power Systems-II		
7	G.Bhavanarayana	Power Electronics		
8	D.Krishna Chaitanya	Power System Analysis		
9	G.Bhavanarayana	Power Electronic Controllers and Drives		

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty Prepared PPTS

S.no	Name of the faculty	Year & Semester	Instructional Material	Topic
1	Mrs.M.Manga Lakshmi	II –I	Network Theory-II	analysis of balanced three phase circuits
2	Mr.K.Siva Sankar	II –I	Electrical Machines - I	Tests on single phase transformers
3	Mr. I.Srinu	II –I	ElectroMagnetic Fields	gauss's law in terms of (integral form and point form)
4	Mrs.K.Sandhya Rani	II –I	Basic Electronic and Devices	Operation and characteristics of p-n junction diode
5	Mr. M. Mani Shankar	II –II	Electrical Machines-II	torque slip characteristic of induction motor
6	Mrs.Ch.Manga Lakshmi	II –II	Control Systems	Open Loop and closed loop control systems
7	Mr.S.Ashok Reddy	II –II	Power Systems-I	Hydro Power Plant: Selection of site, Layout and working
8	Mr.M.V.Chandra Kumar	II –II	Switching Theory and Logic Design	Boolean theorems, principle of complementation & duality
9	Mrs.K.Sandhya Rani	II –II	Pulse and Digital Circuits	Diode clippers, Transistor clipper,
10	Mr.G.Bhavanarayana	III-I	Power Electronics	1-phase half controlled rectifiers – R load and RL load with and without freewheeling diode
11	Mr.B.Rajesh	III-I	Electrical Measurements	Principle and operation of D.C. Crompton's potentiometer
12	Dr. G. Naresh	III-I	Power Systems- II	Transmission Lines – Short, medium, long line and their model representation
13	Mr. M.N.V.V Brahmam	III-I	Signals & Systems	Fourier transforms involving impulse function and Signum function
14	Mr.D.Krishna Chaitanya	III-II	Power System Analysis	Formation of Y-bus matrix by singular transformation
15	Mr.G.Bhavanarayana	III-II	Power Electronic Controllers and Drives	Control of Induction Motor by AC Voltage Controllers
16	Mr. M.N.V.V Brahmam	III-II	Linear IC Applications	Design &Analysis of Butterworth active filters
17	P.Krishna Chaitanya	III-II	Neural Networks and Fuzzy Logic	Artificial Neuron Model,
18	Mr.B.Rajesh	III-II	Energy Audit, Conservation & Management	Types of audit –Energy index – Cost index
19	Mr. I. Murali Krishna	IV-I	Power System Operation & Control	Optimal scheduling of Hydrothermal System
20	Mr.M.Satya Harish	IV-I	Power System Protection	Balanced beam type attracted armature relay
21	Mr. I.Srinu	IV-I	Utilization of Electric Energy	Terms used in illumination,Laws of

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

22 Mr.P.Krishna Chaitanya IV-I Renewable Energy Sources & Systems 23 Mrs.P.Vijaya Prasuna IV-I Systems Solution of state equation Systems Shine. 24 Mr.M.Sundar Teja IV-I Industial Automation Counter instructions and Counter instructions 25 Mr. M. Mani Shankar IV-I Special Machines Hybrid and Variable Reluctance Motor 26 M v Chandra Kumar IV-I Electric Power Quality Plane fluctuation – Power frequency variations. 27 Mr. I. Murali Krishna IV-II Digital Control Systems Plane and the Z-Plane HVDC Transmission HVDC Links 28 Mrs.G.Durga Devi IV-II HVDC Transmission HVDC Links 29 Mrs.P.Vijaya Prasuna IV-II Electrical Distribution Systems Engineering Flexible Alternating Current Transmission Systems 30 Mr.M.Satya Harish IV-II Flexible Alternating Current Transmission Systems 31 Dr.R.SathishKumar IV-II Signals & Systems Laplace transform Grant Grant Transform CRO 32. Mrs.K.Sandhya Rani III-I Signals & Systems Laplace transform Grant Gran		1			T
22 Mr. P. KISHNA Chaitanya IV-I Sources & Systems Solar radiation and sun shine. 23 Mrs. P. Vijaya Prasuna IV-I Systems Solution of state equation Systems State transition matri 24 Mr. M. Sundar Teja IV-I Industial Automation Systems Solution of state equation Systems State transition matri 24 Mr. M. Sundar Teja IV-I Special Machines Timer instructions and Counter instructions and Solution of Systems Solution of Systems State and Metal Solution Phybrid and Variable Reluctance Motor Voltage fluctuation - Power frequency variations HyDr Links Power System State and Solution of Systems Solution Phybrid Instrumentation Systems State and digital relays State					illumination,Polar curves
Sources & Systems Solution and Sunshine.	22	Mr P Krishna		Penewahle Energy	
23 Mrs.P.Vijaya IV-I Advanced Control Solution of state equation Systems Stinler State Prasuna IV-I Industial Automation Counter instructions and Counter instructions Counter instructions Mr. M. Mani Shankar IV-I Special Machines Hybrid and Variable Reluctance Motor Reluctance Motor Voltage fluctuation Power frequency variations. Mapping between the S-Plane and the Z-Plane HVDC Links Benefits and methods of optimal location of substations Systems State and methods of optimal location of substations IV-II Hybrid Voltage Engineering Single phase bridge Control Systems CRO Systems Systems CRO Systems CRO Systems Systems CRO Systems Systems CRO Systems Systems CRO Systems Sys		Chaitanya	IV-I		
Prasuna IV-I Systems State transition matri				ŕ	
Prasuna Systems - State transition matri	23		IV-I	Advanced Control	
24 Mr. M. Sundar Teja	23				
25 Mr. M. Mani Shankar IV-I Special Machines Reluctance Motor	24	Mr.M.Sundar Teja	IV-I	Industial Automation	Timer instructions and
26 M v Chandra Kumar 27 Mr. I. Murali Krishna 28 Mrs.G.Durga Devi 29 Mrs.P.Vijaya Prasuna 10-II 10-II 10-II 10-II 10-III 10-II 10-II 10-III 10-III-II 10-III-II 10-III-II 10-III-II 10-III-II 10-III 10-III-II 10-III 10-III-II 10-III 10-III-II 10-III-II 10-III-II 10-III-II 10-III-II 10-III 10-III-II 10-III 10-III-II 10-III-III-II 10-III-II 10-III-II 10-III-II 10-III-III	27			& Control	
26 M v Chandra Kumar IV-I Electric Power Quality Voltage fluctuation – Power frequency variations.	25	Mr. M. Mani Shankar	IV-I	Special Machines	Hybrid and Variable
25 M V Chandra Kumar 1V-1 Electric Power Quality frequency variations. 1V-1 27 Mr. I. Murali Krishna IV-II Digital Control Systems Mapping between the S-Plane and the Z-Plane 1V-II HVDC Transmission HVDC Links Benefits and methods of optimal location of substations 1V-II High Voltage Engineering Engineering Engineering Uniform and non-uniform field configuration of electrodes 1V-II Signals & Systems Single phase bridge converter 1V-II Signals & Systems 1V-II Signals & Systems 1V-II Instrumentation CRO 1V-II Electrical Machines-I Gauss law 1V-II Electrical Circuit Analysis -II Harmonics and transisents in power quality Power System Static and digital relays 1V-II Power System 1V-II Systems 1V-II Power System 1V-II 1V-II Power System 1V-II Power System 1V-II 1V-II Power System 1V-II 1V-II Power System 1V-II 1V-II 1V-II Power System 1V-II 1V-I	23				
Mr. I. Murali Krishna IV-II Digital Control Systems Mapping between the S-Plane and the Z-Plane	26	M v Chandra Kumar	IV-I	Electric Power Quality	Voltage fluctuation – Power
27 Mr. I. Murali Krishia IV-II Systems Plane and the Z-Plane	20				frequency variations.
28 Mrs.G.Durga Devi IV-II HVDC Transmission 29 Mrs.P.Vijaya Prasuna 30 Mr.M.Satya Harish 31 Dr.R.SathishKumar 32 Mrs.K.Sandhya Rani III-I Signals & Systems 33 Mr.K.Sree Harsha IV-I Instrumentation 34 R.S.Sudhkar 35 S.VaraLakshmi II-I Electrical Distribution Systems 36 B.Rathan Kumar 37 M.S.Harish 38 K.V. Durga Prasad 1V-II HVDC Transmission IV-II Electrical Distribution Systems Electrical Distribution Optimal location of optimal location of substations Uniform and non-uniform field configuration of electrodes Single phase bridge converter Electrodes Single phase bridge Converter Single phase bridge Converter Single phase bridge Converter Single phase bridge Converter Electrodes Harmonics and transisents in power quality Power System	27	Mar T Marrieli Kaislens	T\ / TT	Digital Control	Mapping between the S-
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29 Prasuna IV-II Electrical Distribution Systems optimal location of substations 30 Mr.M.Satya Harish IV-II High Voltage Engineering Uniform and non-uniform field configuration of electrodes 31 Dr.R.SathishKumar IV-II Flexible Alternating Current Transmission Systems Single phase bridge converter 32. Mrs.K.Sandhya Rani III-I Signals & Systems Laplace transform 33. Mr.K.Sree Harsha IV-I Instrumentation CRO 34. R.S.Sudhkar II-I Electro magnetic field Theory Gauss law 35. S.VaraLakshmi II-I Electrical Machines-I Armature and commutation 36. B.Rathan Kumar II-I Electrical Circuit Analysis -II Harmonics and transisents in power quality 37. M.S.Harish IV-I Power System Static and digital relays	28	Mrs.G.Durga Devi	IV-II	HVDC Transmission	HVDC Links
Prasuna IV-II Systems Optimal location of substations Mr.M.Satya Harish IV-II High Voltage Engineering Flexible Alternating Current Transmission Systems Jor.R.SathishKumar IV-II Signals & Systems Laplace transform R.S.Sudhkar II-I Signals & Systems Laplace transform R.S.Sudhkar II-I Electro magnetic field Theory Gauss law S.VaraLakshmi II-I Electrical Machines-I Commutation B.Rathan Kumar II-I Electrical Circuit Analysis -II Harmonics and transisents in power quality R.S. Sud digital relays		Mrs.P.Vijaya			Benefits and methods of
30 Mr.M.Satya Harish IV-II High Voltage Engineering Uniform and non-uniform field configuration of electrodes 31 Dr.R.SathishKumar IV-II Flexible Alternating Current Transmission Systems 32. Mrs.K.Sandhya Rani III-I Signals & Systems Laplace transform 33. Mr.K.Sree Harsha IV-I Instrumentation CRO 34. R.S.Sudhkar II-I Electro magnetic field Theory Gauss law 35. S.VaraLakshmi II-I Electrical Machines-I Commutation 36. B.Rathan Kumar II-I Electrical Circuit Analysis -II Harmonics and transisents in power quality 38. K.V.Durga Prasad IV-I Power System Static and digital relays	29		IV-II		optimal location of
30 Mr.M.Satya Harish IV-II High Voltage Engineering field configuration of electrodes 31 Dr.R.SathishKumar IV-II Flexible Alternating Current Transmission Systems Single phase bridge converter 32. Mrs.K.Sandhya Rani III-I Signals & Systems Laplace transform 33. Mr.K.Sree Harsha IV-I Instrumentation CRO 34. R.S.Sudhkar II-I Electro magnetic field Theory Armature and commutation 35. S.VaraLakshmi II-I Electrical Machines-I Armature and commutation 36. B.Rathan Kumar II-I Electrical Circuit Analysis -II 37. M.S.Harish IV-I Electric Power Quality Harmonics and transisents in power quality 38. K.V. Durga Prasad IV-I Power System Static and digital relays					substations
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31 Dr.R.SathishKumar IV-II Current Transmission Systems Single phase bridge converter 32. Mrs.K.Sandhya Rani III-I Signals & Systems Laplace transform 33. Mr.K.Sree Harsha IV-I Instrumentation CRO 34. R.S.Sudhkar II-I Electro magnetic field Theory Gauss law 35. S.VaraLakshmi II-I Electrical Machines-I Armature and commutation 36. B.Rathan Kumar II-I Electrical Circuit Analysis -II Harmonics and transisents in power quality 37. M.S.Harish IV-I Power System Static and digital relays					electrodes
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35. S.VaraLakshmi II-I Theory Gauss law 35. S.VaraLakshmi II-I Electrical Machines-I Armature and commutation 36. B.Rathan Kumar II-I Electrical Circuit Analysis -II 37. M.S.Harish IV-I Electric Power Quality Harmonics and transisents in power quality 38. K.V. Durga Prasad IV-I Power System Static and digital relays		Mr.K.Sree Harsha	IV-I	-	CRO
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	38	K.V.Durga Prasad	IV-I	Power System	
					Static and digital relays