



M.Tech (PG) (Electrical and Electronics Engineering)

M.Tech (Power Systems) - I Semester

Course Code	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits	Scheme of Evaluation		
		Lecture	Tutorial	Practical	Total		Sessional Marks	Semester End Examination Marks	Total
<b>Program Core</b>									
PSPC 01	Power System Analysis	3	-	-	3	3	40	60	100
PSPC 02	Electrical Power Distribution Systems	3	-	-	3	3	40	60	100
<b>Program Elective- I: Any One from the Following</b>		3	-	-	3	3	40	60	100
PSPE 11	Renewable Energy Sources								
PSPE 12	Smart grids								
PSPE 13	High Power Converters								
PSPE 14	Wind and Solar Systems								
PSPE 15	Energy Auditing & Management								
<b>Program Elective- II: Any One from the Following</b>		3	-	-	3	3	40	60	100
PSPE 21	Power System Dynamics- I								
PSPE 22	Mathematical Methods for Power Engineering								
PSPE 23	Pulse Width Modulation for PE Converters								
PSPE 24	Electric and Hybrid Vehicles								
PSPE 25	Reactive Power Control and Management								
<b>Audit Course-I: Any One from the Following</b>		2	-	--	2	-	100	-	100
PGPA 11	English for Research paper Writing								
PGPA 12	Disaster Management								
PGPA 13	Sanskrit for Technical Knowledge								
PGPA 14	Value Education								
<b>Mandatory Course</b>		2	-	-	2	2	40	60	100
PGMC 01	Research Methodology and IPR								
<b>Program Practicals</b>									
PSCP 01	Power Systems Steady State Analysis Lab	-	-	4	4	2	40	60	100
PSCP 02	Renewable Energy Lab	-	-	4	4	2	40	60	100
<b>Total</b>		16	-	8	24	18	380	420	800



**SRI VENKATESWARA UNIVERSITY COLLEGE OF ENGINEERING: TIRUPATI – 517 502**  
 Department of Electrical and Electronics Engineering-Scheme of Instruction- (CBCS) Effective from the Academic Year 2018-19

M.Tech (PG) (Electrical and Electronics Engineering)

M.Tech (Power Systems) - II Semester

Course Code	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits	Scheme of Evaluation		
		Lecture	Tutorial	Practical	Total		Sessional Marks	Semester End Examination Marks	Total
<b>Program Core</b>									
PSPC 03	Advanced Power System Protection	3	-	-	3	3	40	60	100
PSPC 04	Power Quality	3	-	-	3	3	40	60	100
<b>Program Elective- III: Any One from the Following</b>									
PSPE 31	Restructured Power Systems								
PSPE 32	Advanced Digital Signal Processing								
PSPE33	Dynamics of Electrical Machines								
PSPE 34	Power Apparatus Design								
PSPE 35	Operation and Control of Interconnected Power Systems								
<b>Program Elective- IV: Any One from the Following</b>									
		3	-	-	3	3	40	60	100
PSPE 41	Power System Dynamics-II								
PSPE 42	Advanced Micro- Controller Based Systems								
PSPE 43	SCADA System and Applications								
PSPE 44	AI Techniques								
PSPE 45	Embedded Systems								
<b>Audit Course-II: Any One from the Following</b>									
		2	-	--	2	-	100	-	100
PGPA 21	Constitution of India								
PGPA 22	Pedagogy Studies								
PGPA 23	Stress Management by Yoga								
PGPA 24	Personality Development through Life Enlightenment Skills								
<b>Program Practicals</b>									
PSCP 03	Power System Protection Lab	-	-	4	4	2	40	60	100
PSCP 04	Artificial Intelligence Lab	-	-	4	4	2	40	60	100
PSMP 01	Mini Project with Seminar	-	-	4	4	2	100	-	100
Total		14	-	12	26	18	440	360	800



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M.Tech (Power Systems) - III Semester

Course Code	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits	Scheme of Evaluation		
		Lecture	Tutorial	Practical	Total		Sessional Marks	Semester End Examination Marks	Total
<b>Program Elective- V: Any One from the Following</b>		3	-	-	3	3	40	60	100
PSPE 51	FACTS and Custom Power Devices								
PSPE 52	Industrial Load Modeling and Control								
PSPE 53	Power System Transient								
PSPE 54	Dynamics of Linear Systems								
PSPE 55	Modeling and Analysis of HVDC Transmission Systems								
<b>Open Elective: Any One from the Following</b>		3	-	-	3	3	40	60	100
PGOE 11	Business Analytics								
PGOE 12	Industrial Safety								
PGOE 13	Operation Research								
PGOE 14	Cost Management of Engineering Projects								
PGOE 15	Composite Materials								
PGOE 16	Energy Generation from Wastes								
PSPD 01	Dissertation- Phase-I	-	-	20	20	10	100	-	100
Total		6	-	20	26	16	180	120	300



M.Tech (PG) (Electrical and Electronics Engineering)

M.Tech (Power Systems) - IV Semester

Course Code	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits	Scheme of Evaluation		
		Lecture	Tutorial	Practical	Total		Sessional Marks	Semester End Examination Marks	Total
PSPD 02	Dissertation- Phase-II	-	-	32	32	16	40	60	100
Total		-	-	32	32	16	40	60	100