SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati

Department of Electrical and Electronics Engineering

Approved Course Structure

Program: M.Tech.- Electrical Power Systems
Regulations: SVEC-19

I-Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT10701	High Voltage Engineering	3	-	-	3	3	40	60	100
2	19MT10702	Power Electronics for Power Systems	3	-	-	3	3	40	60	100
3	19MT10703	Power System Security and State Estimation	3	-	-	3	3	40	60	100
4	**Program Elective – 1**		3	-	-	3	3	40	60	100
	19MT18304	Control System Design								
	19MT18305	Intelligent Controllers								
	19MT18306	Microcontroller and Applications								
	19MT10704	High Voltage DC Transmission								
5	**Program Elective – 2**		3	-	-	3	3	40	60	100
	19MT18307	Electromagnetic Field Computation and Modeling								
	19MT10705	Digital Signal Processing								
	19MT10706	Power Quality								
	19MT10707	Smart Grids								
6	19MT10708	Research Methodology and IPR	2	-	-	2	2	40	60	100
7	19MT10731	High Voltage Engineering Lab	-	-	4	4	2	50	50	100
8	19MT10732	Power System Analysis - I Lab	-	-	4	4	2	50	50	100
		Total	**17**	**-**	**8**	**25**	**21**	**340**	**460**	**800**
9	19MT1AC01	Technical Report Writing	2	-	-	2	-	-	-	-

II-Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT20701	Power System Modeling and Control	3	-	-	3	3	40	60	100
2	19MT20702	Static and Digital Protection of Power System	3	-	-	3	3	40	60	100
3	**Program Elective – 3**		3	-	-	3	3	40	60	100
	19MT28305	Solar Energy Conversion Systems								
	19MT20703	EHVAC Transmission								
	19MT20704	Power System Automation								
	19MT20705	Reactive Power Compensation and Management								
4	**Program Elective – 4**		3	-	-	3	3	40	60	100
	19MT28309	Wind Energy Conversion Systems								
	19MT20706	Flexible AC Transmission System								
	19MT20707	Power System Deregulation								
	19MT20708	Power System Planning and Reliability								
5	19MT2MOOC	Open Elective (MOOC)	-	-	-	-	3	-	100	100
6	19MT20731	Power System Analysis – II Lab	-	-	4	4	2	50	50	100
7	19MT20732	Power Systems and Protection Lab	-	-	4	4	2	50	50	100
		Total	**12**	**-**	**8**	**20**	**19**	**260**	**440**	**700**
8	19MT2AC01	Statistics with R	2	-	-	2	-	-	-	-

III-Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT30731	Internship	-	-	-	-	2	-	100	100
2	19MT30732	Project Work Phase - I	-	-	-	-	10	50	50	100
		Total	**-**	**-**	**-**	**-**	**12**	**50**	**150**	**200**

IV-Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT40731	Project Work Phase - II	-	-	-	-	16	150	150	300
		Total	**-**	**-**	**-**	**-**	**16**	**150**	**150**	**300**
						Grand Total Credits:	**68**	**Grand Total Marks:**		**2000**

DEAN (Academics)

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PRINCIPAL

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