



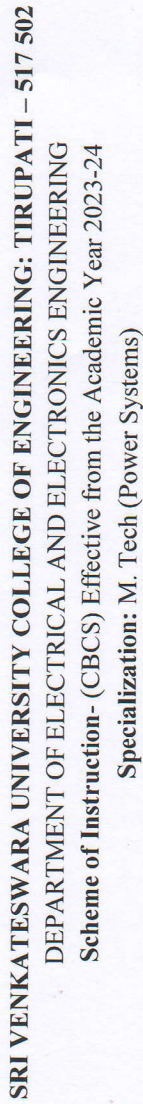
SRI VENKATESWARA UNIVERSITY COLLEGE OF ENGINEERING: TIRUPATI – 517 502
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Scheme of Instruction - (CBCS) Effective from the Academic Year 2023-24
Specialization: M. Tech (Power Systems)

M.Tech (Power Systems) - I Semester

Category	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
PCC	PSPC 01	Computer Methods in Power Systems.	4	0	0	4	4	40	60	100
PCC	PSPC 02	Interconnected Power System Operation and Control.	4	0	0	4	4	40	60	100
PCC	PSPC03	AI Applications to Power Systems.	4	0	0	4	4	40	60	100
PEC	PSPE 01	Program Elective I.	3	1	0	4	3	40	60	100
PEC	PSPE 02	Program Elective II.	3	1	0	4	3	40	60	100
PCL	PSCP 01	Computer Methods in Power Systems Lab.	0	0	3	3	1.5	40	60	100
PCL	PSCP 02	AI Applications to Power Systems Lab.	0	0	3	3	1.5	40	60	100
MC	PGMC01	Research Methodology and IPR.	3	0	0	3	3	40	60	100
Total			21	02	06	29	24	320	480	800

List of Program Elective Course – I (PSPE 01)		List of Program Elective Course – II (PSPE 02)	
Course Code		Course Code	
PSPE 01.1	Reactive Power Control and Management.	PSPE 02.1	Dynamics of System Theory.
PSPE 01.2	Energy Auditing and Management.	PSPE 02.2	Pulse Width Modulation for PE Converters.
PSPE 01.3	Smart Grids Technologies.	PSPE 02.3	High Power Converters.
PSPE 01.4	FACTS and Custom Power Devices.	PSPE 02.4	Advanced Micro- Controller Based Systems .

T. Govindarajan
CHAIRMAN
B.O.S. (P.G.)
 Dept. of E.E.E



Category	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
PCC	PSPC 04	Advanced Power System Protection.	4	0	0	4	4	40	60	100
PCC	PSPC 05	Electrical Power Distribution Systems.	4	0	0	4	4	40	60	100
PCC	PSPC 06	Wind and Solar Energy Systems.	3	1	0	4	3	40	60	100
PEC	PSPE 03	Program Elective III.	3	1	0	4	3	40	60	100
PEC	PSPE 04	Program Elective IV.	3	1	0	4	3	40	60	100
PCL	PSCP 03	Power System Protection Lab.	0	0	3	3	1.5	40	60	100
PCL	PSCP 04	Wind and Solar Energy Systems Lab.	0	0	3	3	1.5	40	60	100
VAC	PSVAC01	Electrical Safety and Management.	3	1	0	4	3	40	60	100
PCC	PSMPS00	Mini Project with Seminar.	1	0	2	3	2	40	60	100
Total			21	04	08	33	25	360	540	900

Instruction: The students can undergo Open Elective Course work (12 week's duration) from the day of commencement of Second semester class work through online (MOOCS)/ NPTEL and can select the subjects that are not covered in the Curriculum. However, the obtained pass certificate should be submitted on or before the last working day of the III - Semester Course work without fail and result will be reflected in III - Semester Marks MEMO. Otherwise, your results will be reflected in supplementary mode if certificate is submitted after last working day of III - Semester.

T. Goewin
CHAIRMAN
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Dept. of E.E.E.



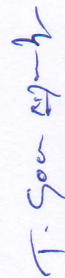
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M.Tech (Power Systems) - III Semester

Category	Course Code	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits	Scheme of Evaluation	
			Lecture	Tutorial	Practical	Total		Semester End Examination Marks	Total
OEC	PGOE01	Open Elective Course (MOOCS).	3	0	0	3	3	100	100
PCC	PSSRI01	Summer Industrial /Research Internship.	0	0	0	0	3	100	100
PCC	PSPD01	Dissertation Project Work Phase – I	0	0	24	24	12	100	100
Total			3	0	24	27	18	300	300

Instructions:

1. The Students can undergo Open Elective Course work (12 week's duration) from the day of commencement of Second semester class work through online (MOOCS)/ NPTEL and can select the subjects that are not covered in the Curriculum. However, the obtained pass certificate should be submitted on or before the last working day of the III - Semester Coursework without fail and result will be reflected in III - Semester Marks MEMO. Otherwise, your results will be reflected in supplementary mode if certificate is submitted after last working day of III-Semester.
2. Evaluation of Dissertation Phase – I work: Review after 6 – 8 weeks (20 marks), Continuous Guide Evaluation (40 marks) and End Semester Evaluation (40 marks). – Total Marks: 100 marks.
3. Industrial/ Research Internship: A student may undergo Industrial/ Research Internship for a period of 4 to 6 weeks, immediately after the completion of I Year II semester. Industrial/ Research Internship will be done minimum period of four to six weeks in an Industry in the area of concerned specialization of Engineering. The Industrial/ Research Internship should give exposure to the practical aspects of the discipline. In addition, the student may also work on a specified task or project which may be assigned to him/her. The outcome of the internship should be presented in the form of a report.


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M.Tech (Power Systems) - IV Semester

Category	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
PCC	PSPD02	Dissertation Project Work Phase – II and Viva-Voce	0	0	32	32	16	60	40	100
		Total	0	0	32	32	16	60	40	100

Instruction:

1. Evaluation of Dissertation Project work Phase – II : Review after 8-10 weeks (20 marks) and Continuous Guide Evaluation (40 marks) and End Semester Examination (40 marks).
2. Student must submit their project work on or before the last working day/Instruction day of the IV Semester of the Program. Otherwise Rs. 1,000/- penalty for late submission will be levied to extend submission up to three months. In case of failure of the said condition the penalty amount will be doubled up to the completion of the course .

T. Sankar

CHAIRMAN
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