
	SRI VENKATESWARA UNIVERSITY COLLEGE OF ENGINEERING: TIRUPATI – 517 502										
	Department of Electrical and Electronics Engineering-Scheme of Instruction- Choice Based Credit System (R-20 Regulations)										
	B. Tech (Electrical and Electronics Engineering), w.e.f. 2020-21										
	V- SEMESTER										
S.No	Course Code	Category	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits	Scheme of Evaluation		
				Lecture	Tutorial	Practical	Total		Sessional Marks	Semester End Examination Marks	Total
1.	EE501C	PCT	Power systems-II	3	-	-	3	3	40	60	100
2.	EE502C	PCT	Linear Control Systems	3	-	-	3	3	40	60	100
3.	EE503C	PCT	Power Electronics	3	-	-	3	3	40	60	100
4.	EE504C	PET	Professional Elective - I	3	-	-	3	3	40	60	100
5.	EE505C	OET	Open Elective – I (MOOCs)	3	-	-	3	3	100	-	100
6.	EE506L	PCL	Control Systems Lab	-	-	3	3	1.5	40	60	100
7.	EE507L	PCL	Power Electronics Lab	-	-	3	3	1.5	40	60	100
8.	EE508S	SC3	MATLAB Laboratory	1	-	2	3	2	40	60	100
9.	MC509A	MCT2	Universal Human Values (Mandatory Course)	2	-	-	2	0	100	-	100
10.	EE510	Internship	Community Service Internship	45 Hrs				1.5	100	-	100
Total				18	-	08	26	21.5	580	420	1000

Professional Elective – I

- i. Wind and Solar Energy Systems**
- ii. Electrical Distribution System**
- iii. Electrical Safety**

Category	Credits
Professional Core Course	12
Professional Elective courses	3
Open Elective Course/Job oriented elective	3
Skill Oriented Course	2
Universal Human Values	0
Community Service Internship	1.5
TOTAL CREDITS	21.5

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	VI- SEMESTER										
S.No	Course Code	Category	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits	Scheme of Evaluation		
				Lecture	Tutorial	Practical	Total		Sessional Marks	Semester End Examination Marks	Total
1.	EE601C	PCT	Power system Analysis	3	1	-	4	4	40	60	100
2.	EE602C	PCT	Electrical and Electronics Measurements	3	-	-	3	3	40	60	100
3.	EE603C	PCT	Micro Processors and Micro Controllers	3	-	-	3	3	40	60	100
4.	EE604C	PCT	Utilization of Electrical Power	3	-	-	3	3	40	60	100
5.	EE605C	PET	Professional Elective – II	3	-	-	3	3	40	60	100
6.	EE606C	OET	Open Elective – II (MOOCs)	3	-	-	3	3	100	-	100
7.	EE607L	PCL	Microprocessors and Micro Controllers Lab	-	-	3	3	1.5	40	60	100
8.	EE608L	PCL	Electrical and Electronics Measurements Lab	-	-	3	3	1.5	40	60	100
9.	EE609S	SC4	Java Programming	1	-	2	3	2	40	60	100
10.	MC610 A	MCT2	Professional Ethics in Engineering (Mandatory Course)	2	-	-	2	0	100	-	100
Total				21	01	08	30	24	520	480	1000

Professional Elective – II

i. Advanced Control Systems	ii. Energy Auditing and Management	iii. Special Machines
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Note:Summer Industrial Internship (Mandatory) Two months (Duration - 60 Hrs,3 – credits, 100 – Marks to be given by internal evaluation committee) – during summer vacation (Performance will be reflected in VII Semester, Online / Offline mode.

Category	Credits
Professional Core Course	16
Professional Elective courses	3
Open Elective Course/Job oriented elective	3
Professional Ethics in Engineering	0
Skill Oriented Course	2
TOTAL CREDITS	24



SRI VENKATESWARA UNIVERSITY COLLEGE OF ENGINEERING: TIRUPATI – 517 502

Department of Electrical and Electronics Engineering-Scheme of Instruction- Choice Based Credit System(**R-20 Regulations**)

B. Tech (Electrical and Electronics Engineering), w.e.f. 2020-21

VII- SEMESTER

S.No	Course Code	Category	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits	Scheme of Evaluation		
				Lecture	Tutorial	Practical	Total		Sessional Marks	Semester End Examination Marks	Total
1.	EE701C	PCT	Power System Protection	3	-	-	3	3	40	60	100
2.	EE702C	PET	Professional Elective – III	3	-	-	3	3	40	60	100
3.	EE703C	PET	Professional Elective – IV	3	-	-	3	3	40	60	100
4.	EE704C	PET	Professional Elective - V	3	-	-	3	3	40	60	100
5.	EE705C	OET	Open Elective – III (MOOCs)	3	-	-	3	3	100	-	100
6.	EE706C	OET	Open Elective – IV (MOOCs)	3	-	-	3	3	100	-	100
7.	EE707 L	PCL	Power System Simulation Lab	-	-	3	3	1.5	40	60	100
8.	EE708S	SC5	IoT Lab	1	-	2	3	2	40	60	100
9.	EE709I	Internship	Summer Industrial Internship	2 Months			-	3	100	-	100
Total				19	-	05	24	24.5	540	360	900

Professional Elective – III	Professional Elective – IV	Professional Elective – V
i. Electrical Vehicles ii. Flexible AC Transmission Systems iii. Restructured Power Systems	i. Power System Operation and Control ii. Power Semiconductor Controlled Drives iii. Power Quality	i. HVDC Transmission ii. High Voltage Engineering iii. Smart Grid

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Category	Credits
Professional Core Course	4.5

Professional Elective courses	9
Open Elective Course/Job oriented elective	6
Summer Industrial Internship	3
Skill Oriented Course	2
TOTAL CREDITS	24.5

**SRI VENKATESWARA UNIVERSITY COLLEGE OF ENGINEERING: TIRUPATI – 517 502**Department of Electrical and Electronics Engineering-Scheme of Instruction- Choice Based Credit System(**R-20 Regulations**)**B. Tech (Electrical and Electronics Engineering), w.e.f. 2020-21****VIII- SEMESTER**

S.No	Course Code	Category	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits	Scheme of Evaluation		
				Lecture	Tutorial	Practical	Total		Sessional Marks	Semester End Examination Marks	Total
1.	EEPROJ801	Major project	Project Work and Internship	-	-	24	24	12	40	60	100
Total				-	-	24	24	12	320	480	800

Category	Credits
I- SEMESTER	18
II- SEMESTER	19
III- SEMESTER	22
IV- SEMESTER	22
V- SEMESTER	21.5
VI- SEMESTER	24
VII- SEMESTER	24.5
VIII- SEMESTER	12
TOTAL CREDITS	163



SRI VENKATESWARA UNIVERSITY COLLEGE OF ENGINEERING: TIRUPATI – 517 502

Department of Electrical and Electronics Engineering-Scheme of Instruction- Choice Based Credit System(**R-20 Regulations**)

B. Tech (Electrical and Electronics Engineering) (HONOURS DEGREE)

S.No	Course	Category	Course Title	No. of	Scheme of Evaluation
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	Code			Lecture	Tutorial	Practical	Total	Credits	Sessional Marks	Semester End Examination Marks	Total
1.	EEHN01	HON	Electrical Machine Design	3	1	-	4	4	40	60	100
2.	EEHN02	HON	Advanced Power System Protection	3	1	-	4	4	40	60	100
3.	EEHN03	HON	Digital Control Systems	3	1	-	4	4	40	60	100
4.	EEHN04	HON	Advanced Power Electronics	3	1	-	4	4	40	60	100
5.	EEHN05	HON	Hybrid Electrical Vehicles	3	1	-	4	4	40	60	100
6.	EEHN06	HON	Industrial Applications of Electrical Engineering	3	1	-	4	4	40	60	100

Note: A student shall register for 4 (Four) Subjects from the above list, as per the R20-Regulations for B.Tech (HONOURS) Degree.



SRI VENKATESWARA UNIVERSITY COLLEGE OF ENGINEERING: TIRUPATI – 517 502

Department of Electrical and Electronics Engineering-Scheme of Instruction- Choice Based Credit System(**R-20 Regulations**)

B. Tech (Electrical and Electronics Engineering) (MINOR DEGREE)

S.No	Course Code	Category	Course Title					No. of Credits	Scheme of Evaluation		
				Lecture	Tutorial	Practical	Total		Sessional Marks	Semester End Examination Marks	Total

1.	EEMN01	MIN	Electrical Circuits and Networks	3	1	-	4	4	40	60	100
2.	EEMN02	MIN	Electrical Machines	3	1	-	4	4	40	60	100
3.	EEMN03	MIN	Power Systems	3	1	-	4	4	40	60	100
4.	EEMN04	MIN	Control Systems	3	1	-	4	4	40	60	100
5.	EEMN05	MIN	Power Electronics	3	1	-	4	4	40	60	100
6.	EEMN06	MIN	Electronics Engineering	3	1	-	4	4	40	60	100

Note: A student shall register for 4 (Four) Subjects from the above list, as per the R20-Regulations for B.Tech (MINOR) Degree.