Syllabus Revision in 2020 Regulations

R-18 syllabus was framed based on AICTE whereas R-20 syllabus is from APSCHE. In R-20 syllabus skilled courses are added to prepare the students to get the software jobs. Skill courses introduced are 1) Computer Skills, 2) Python Programming, 3) MATLAB programming, 4) JAVA programming, 5) Internet of Things (IoT).

Based on GATE and UPSC exam sysllabus,R-20 Syllabus is modified. In eigth semester only project work is included, no class work in eight semester

Open Elective Courses students can register in MOOCS and complete the course in stipulated time duration and can produce certificates to get them added in their final marks statements.

Students who are interested in getting knowledge of advanced subjects of Electrical Engineering, major subjects are added in all important areas of Electrical Engineering, those students will get B. Tech (Electrical and Electronics Engineering) (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) (HONOURS 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.	EEHN01	HON	Electrical Machine Design	3	1	-	4	4	40	60	100
2.	EEHN02	HON	Advanced Power Systems	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	Advanced Electrical Vehicles	3	1	-	4	4	40	60	100
6.	EEHN06	HON	Industrial Applications of Electrical Engineering	3	1	-	4	4	40	60	100

For Non Electrical Engineering Students who are interested in getting Minor degree in Electrical and Electronics Engineering provision is given in R20 regulations as shown in table given below.

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

CIRCUITS & FIELD THEORY

R-18		R-20	
EEEST204	Basic Electrical Engineering	**EE302C**	Electro Magnetic Fields
EEPCT302	Electro Magnetic Fields	**EE303C**	Network Analysis
EEPCT303	Electrical Circuit Analysis	**EE204**	Electrical Circuits

Elementary Ideas of Network Synthesis are added to make the students exposed to more details.

Power Systems

R-18		R-20	
EEPCT401	Power systems-I	**EE401C**	Power systems-I
EEPCT502	Power Systems- II	**EE501C**	Power Systems- II
EEPCT601	Power Systems - III	**EE601C**	Power Systems - III
EEPET 701.1	Power System Protection	**EE701C**	**Power System Protection**
EEPET 801.1	HVDC Transmission System	**EE704C**	**HVDC Transmission systems**

In HVDC reactive power control, Harmonics and Filters are added in R-20 syllabus.

systems subject is included. Advanced power systems subject is added and for Minor degree Power

Electric Machines

R-18		R-20	
EEPCT304	Electrical Machines –I	**EE304C**	D.C. Machines and Transformers
EEPCT404	Electrical Machines-II	**EE402C**	Induction Motors and Synchronous Machines

Electrical Machines - II is based on R18 regulations. Electrical Machines – I title is changed as D.C Machines and Transformers, Electrical Machines – II title is changed as Induction motors and synchronous machines.

For Honors degree Electric Machine Design subject is added and for Minor degree Electric Machines subject is included

Control Systems

R-18		R-20	
EEPCT501	Control Systems	**EE502C**	Linear Control Systems
EEPET 604.1	Control System Design	**EE606C**	**Advanced Control Systems**
EEPET 604.2	Digital Control Systems		

In R-20 Control systems title is changed to Linear Control Systems

For Honors degree Digital Control Systems is added and for Minor degree Control Systems subject is included

Power Electronics

R-18		R-20	
EEPCT602	Power Electronics	**EE503C**	Power Electronics
EEPET 801.3	Advanced Electrical Drives	**EE704C**	Power Semiconductor Drives

In R-20 Advanced Electrical Drives title is changed to Power Semiconductor Drives for Honors degree Advanced Power Electronicsis added and for Minor degree Power Electronicssubject is included

Electronics

R-18		R-20	
ECPCT503	Microprocessors	**EE603C**	Micro Processors and Micro Controllers
ECPTC305	Analog Electronics	**EE305C**	Analog Electronics
ECPTC402	Digital Electronics	**EE404C**	Digital Electronics
ECPTC403	Signals & Systems	**EE405C**	Signals &Systems

In R-20 Microprocessors title is changed to Micro Processors and Micro Controllers

BOS Chairperson

PROF.A.Lakshmi Devi

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