

FROM THE REGISTRAR S.V.UNIVERSITY TIRUPATI	To The Principal, SVU College of Engineering, Tirupati
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Sir

Sub:- S.V.University – Academic Branch – Course of Study – Amendments to **Open Electives Courses, MOOCs, e-learning and Internship** in the Regulations-2018 prescribed for B.Tech. (Regular)(CBCS) & Regulations-2019 prescribed for B.Tech. (Lateral Entry)(CBCS) - Regarding.

- Ref:1. Lr.No.SVUCE/ACD/2020, dated.28.08.2020 along with the Minutes of the Meeting held on 27-08-2020 at 11.00 A.M. in the Chambers of the Principal, S.V.U. College of Engineering, Tirupati, received from Prof.G. Prabhakar, Dean, Faculty of Engineering, SVUCE.
2. Rector's Orders Dt : 17-09-2020.

With reference to the above, I am to inform you that on the recommendations of the Dean, Faculty of Engineering, SVU College of Engineering, Tirupati, and in view of urgency of the matter and pending ratification of the Academic Senate, the Hon'ble Rector has approved the following amendments to **Open Electives Courses, MOOCs, e-learning and Internship in the Regulations-2018 prescribed for B.Tech. (Regular)(CBCS) & Regulations-2019 prescribed for B.Tech. (Lateral Entry)(CBCS)** with immediate effect *i.e. from the current academic year 2020-21 – II year B.Tech, III year B.Tech and students admitted hereafter, effective from the batch of students admitted during the Academic Year 2018-19:-*

For:

“Massive Open Online Courses (MOOCs) and e-learning platforms can be utilized for learning the courses with the permission of the HOD concerned. Students can take any one open elective during V-VII Semesters from the list of courses suggested by the Department concerned, by registering it as MOOC of a minimum duration of 8 weeks in SWAYAM (UGC)/Spoken – Tutorial (IIT, Mumbai)/NPTEL (AICTE). The certificate issued by the above platform (s) shall be submitted at the end of VII Semester in order to include it with an appropriate grade in accordance with the grading pattern as specified in clause 15 as decided by the Department in the VIII Semester marks statement”.

“Students who undergo summer **internship** of duration of 4 weeks after IV or VI semesters shall submit a certificate from the organization concerned and present a seminar on Internship in the beginning of VII semester for its assessment and inclusion in the VII Semester marks statement”.

Substitute:

MOOCs (Online courses)

1. With effect from the Academic year 2020-2021, all the four OPEN ELECTIVE courses prescribed for B.Tech. programme are to be successfully completed on SWAYAM online portal of Government of India.
2. Courses offered by the concerned Department as Programme Core/Programme Elective/Audit courses shall not be opted as open elective.
3. A student is free to opt for any course relating to (a) Domain engineering (b) General Engineering (c) management and (d) functional / technical English, in consultation with his/her Department. It should not be a course offered by the Department.
- 4) Opted course shall carry 3 credits and of 12 or more weeks of duration.
- 5) A student is free to enroll and complete an online course from III semester to VII semester of ~~Lateral~~ B.Tech programme.

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- 6) Performance certificates in 2 out of the four courses shall be submitted by the student at the end of VI semester B.Tech., for inclusion in the marks memorandum of VI Semester B.Tech.
 - 7) Performance certificates of the balance 2 online courses shall be submitted by the student at the end of VIII semester for inclusion in the marks memorandum of VIII Semester B.Tech.
 - 8) Department shall make arrangement for collection, verification and consolidation of performance certificates in online courses for onward transmission to the University.
 - 9) This will come into immediate effect i.e. from the current academic year 2020-21 – III year class B.Tech class, II year B.Tech class and students admitted hereafter.
 - 10) Online courses on only SWAYAM portal shall be considered for credit transfer.

the above open elective courses specified at different locations in the schemes of instruction will be replaced by

**Open elective –I and open elective –II
Open elective –III and open elective –IV**

**VI semester B.Tech. and
VIII semester B.Tech.**

Uniformly for all disciplines of B.Tech.

Internship

“Students who undergo summer internship of duration of 4 weeks after IV or VI semesters shall submit a certificate from the organization concerned and present a seminar on Internship in the beginning of VII semester for its assessment and inclusion in the VII Semester marks statement”.

Therefore, I am by direction to request you to kindly to circulate the same along with the revised scheme of Instruction and Examination of all Semesters of Engineering Courses offered at UG level .

**Yours faithfully,
Sd/- P.SREEDHARA REDDY
REGISTRAR**

Copy to the Dean, Faculty of Engineering, SVU College of Engg., Tirupati for information

Copy to the Chairman, BoS, (Pass), ECE /EEE/ CSE/ Mech/ Chem./ Civil Engg, SVUCE for Information.

Copy to the Head, Department of ECE /EEE/ CSE/ Mech/ Chem./ Civil Engg, SVUCE, for information

Copy to the Controller of the Examinations, S.V. University, Tirupati for information

Copy to the Superintendents of B-VI, B-VII and B-IX Sections, Examinations Branch, SVU Office, Tirupati for information.

Copy to EDP Cell, Examinations Branch, SVU for information.

//t.c.f.b.o//

**ASSISTANT ADMINISTRATIVE OFFICER
(ACADEMIC)**

SRI VENKATESWARA UNIVERSITY COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
SCHEME OF INSTRUCTION – CHOICE BASED CREDIT SYSTEM

B.Tech Electronics and Communication Engineering

Effective from 2018-19, Modified in 2020-21

FIRST SEMESTER

Course Code	Course Title	Scheme of Instruction hr / week				Credits	Scheme of Evaluation		Total
		L	Tut	P/D	T		Sessional Marks	Sem End Exam Marks	
MABST 101	Mathematics-I	3	1	0	4	4	40	60	100
PYBST 102	Modern Physics	3	1	0	4	4	40	60	100
CSEST 103	Programming for Problem Solving	2	1	0	3	3	40	60	100
ECEST 104	Electronic Devices	3	1	0	4	4	40	60	100
MEESP 105	Workshop / Manufacturing Practices	0	0	3	3	1.5	40	60	100
CSESP 106	Programming for Problem Solving Lab	0	0	3	3	1.5	40	60	100
CEMCT 107	Environmental Science	4	-	-	4	-	100	-	100
	TOTAL	15	04	06	25	18	340	360	700

L – Lecturer hours; Tut. – Tutorials; P/D – Practical or Drawing; T - Total


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SECOND SEMESTER

Course Code	Course Title	Scheme of Instruction hr / week				Credits	Scheme of Evaluation		Total
		L	Tut	P/D	T		Sessional Marks	Sem End Exam Marks	
MABST 201	Mathematics-II	3	1	0	4	4	40	60	100
CYBST 202	Engineering Chemistry	3	1	0	4	4	40	60	100
ENHST 203	English	2	0	0	2	2	40	60	100
EEEST 204	Basic Electrical Engineering	3	1	0	4	4	40	60	100
MEEST 205	Engineering Graphics & Design	2	0	3	5	3.5	40	60	100
ENHSP 206	English Communications Lab	0	0	3	3	1.5	40	60	100
	Total	13	03	06	22	19	240	360	600

L – Lecturer hours; Tut. – Tutorials; P/D – Practical or Drawing; T - Total

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THIRD SEMESTER

Course Code	Course Title	Scheme of Instruction hr / week				Credits	Scheme of Evaluation		Total
		L	Tut	P/D	T		Sessional Marks	Sem End Exam Marks	
MABST 301	Mathematics-III	3	1	0	4	4	40	60	100
EEPCT 302	Network Theory	3	0	0	3	3	40	60	100
ECPCT 303	Electromagnetic Waves	3	0	0	3	3	40	60	100
ECPCT 304	Digital System Design	3	0	0	3	3	40	60	100
EOHST 305	Economics	2	0	0	2	2	40	60	100
EOHST 306	Accountancy	2	0	0	2	2	40	60	100
ECPCP 307	Electronic Devices Lab	0	0	2	2	1	40	60	100
ECPCP 308	Digital System Design Lab	0	0	2	2	1	40	60	100
EEESP 309	Basic Electrical Engineering Lab	0	0	2	2	1	40	60	100
PAMCT 310	Constitution of India	2	0	0	2	0	100	-	100
	TOTAL	18	01	06	25	20	460	540	1000

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FOURTH SEMESTER

Course Code	Course Title	Scheme of Instruction hr / week				Credits	Scheme of Evaluation		Total
		L	Tut	P/D	T		Sessional Marks	Sem End Exam Marks	
ECPCT 401	Analog Circuits	3	1	0	4	4	40	60	100
ECPCT 402	Signals and Systems	3	0	0	3	3	40	60	100
ECPCT 403	Probability Theory and Stochastic Processes	3	0	0	3	3	40	60	100
ECPCT 404	Analog and Digital Communication	3	1	0	4	4	40	60	100
CSPCT 405	Computer Organization and Architecture	3	0	0	3	3	40	60	100
MGHST 406	Management Science	3	0	0	3	3	40	60	100
ECPCP 407	Analog Circuits Lab	0	0	2	2	1	40	60	100
ECPCP 408	Analog and Digital Communication Lab	0	0	2	2	1	40	60	100
	TOTAL	18	2	4	24	22	320	480	800

L – Lecturer hours; Tut. – Tutorials; P/D – Practical or Drawing; T - Total

Note: Industrial Internship for not less than 4 weeks, after 4th or 6th semester during summer


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FIFTH SEMESTER

Course Code	Course Title	Scheme of Instruction hr / week				Credits	Scheme of Evaluation		Total
		L	Tut	P/D	T		Sessional Marks	Sem End Exam Marks	
EEPCT 501	Linear Control Systems	3	0	0	3	3	40	60	100
ECPCT 502	IC Applications	3	0	0	3	3	40	60	100
ECPCT 503	Microcontrollers	3	0	0	3	3	40	60	100
ECPCT 504	Digital Signal Processing	3	0	0	3	3	40	60	100
ECPET 505	Electronic Measurements	3	0	0	3	3	40	60	100
ECPCP 506	IC Applications Lab	0	0	2	2	1	40	60	100
ECPCP 507	Microcontrollers Lab	0	0	2	2	1	40	60	100
ECPCP 508	Digital Signal Processing Lab	0	0	2	2	1	40	60	100
	TOTAL	15	0	6	21	18	320	480	800

L – Lecturer hours; Tut. – Tutorials; P/D – Practical or Drawing; T - Total


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SIXTH SEMESTER

Course Code	Course Title	Scheme of Instruction hr / week				Credits	Scheme of Evaluation		Total
		L	Tut	P/D	T		Sessional Marks	Sem End Exam Marks	
ECPCT 601	Computer Networks	3	0	0	3	3	40	60	100
ECPET 602	Program Elective - I	3	0	0	3	3	40	60	100
ECPET 603	Program Elective - II (MOOCs / e_Learning)	3	0	0	3	3	40	60	100
ECPCP 604	Computer Networks Lab	0	0	4	4	2	40	60	100
ECPCP 605	Electromagnetic Waves and Microwaves Lab	0	0	2	2	1	40	60	100
ECPCP 606	Electronic Measurements Lab	0	0	2	2	1	40	60	100
ECPCP 607	Electronic Design Workshop	0	0	4	4	2	40	60	100
ECOET 608	Open Elective – I (online)	-				3			100
ECOET 609	Open Elective – II (online)					3			100
	Open Elective –I & II MOOCs(online)	Period of study during 3 rd /4 th /5 th /6 th / Sem. Performance will be reflected in Sixth Sem.							
	TOTAL	15	0	12	27	21	280	420	900

L – Lecturer hours; Tut. – Tutorials; P/D – Practical or Drawing; T - Total


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SEVENTH SEMESTER

Course Code	Course Title	Scheme of Instruction hr / week				Credits	Scheme of Evaluation		Total	
		L	Tut	P/D	T		Internal	Sem End External		
							Marks	Marks		
ECPET 701	Program Elective-III	3	0	0	3	3	40	60	100	
ECPET 702	Program Elective -IV	3	0	0	3	3	40	60	100	
ECPET 703	Program Elective - V	3	0	0	3	3	40	60	100	
MGHST 704	Total Quality Management	4	0	0	4	4	40	60	100	
ECPCI 705	Industry Internship	Not less than 4 weeks				3	100		100	
ECPCX 706	Project Work Phase - I	0	0	6	6	3	100		100	
	TOTAL	13	0	6	19	19	360	240	600	

L – Lecturer hours; Tut. – Tutorials; P/D – Practical or Drawing; T - Total


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EIGHTH SEMESTER

Course Code	Course Title	Scheme of Instruction hr / week				Credits	Scheme of Evaluation		Total
		L	Tut	P/D	T		Internal	Sem End External	
		Marks	Marks						
ECPET 801	Program Elective - VI	3	0	0	3	3	40	60	100
ECPET 802	Program Elective - VII	3	0	0	3	3	40	60	100
ECPCX 803	Project Work Phase – II	0	0	18	18	9	40	60	100
ECOET 804	Open Elective – III(online)					3			100
ECOET 805	Open Elective – IV(online)					3			100
-	Open Elective – III & IV MOOCs(online)	Period of study during 3 rd /4 th /5 th /6 th /7 th / Sem. Performance will be reflected in Eighth Sem.							
	TOTAL	06	0	18	24	21	120	180	500

L – Lecturer hours; Tut. – Tutorials; P/D – Practical or Drawing; T - Total


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