

**T.E. Semester –V (Electronics and Computer Science)**  
**Choice Based Credit Grading Scheme with Holistic Multidisciplinary Education (CBCGS- HME 2020)**  
**TCET Autonomy Scheme (w.e.f. A.Y. 2023-24)**

Course Description			Teaching Scheme (Program Specific)					Examination scheme					
Sr. No.	Course Code	Course Title	Modes of Teaching / Learning / Weightage				Credits	Modes of Continuous Assessment / Evaluation					
			Hours Per Week					Theory (100/50)		Practical/Or al (25)	Term Work (25)	Total	
			Theory	Tutorial	Practical	Contact Hours		(40/20)	(60/30)				
								IA		ESE	PR/OR		TW
ISE	IE												
1	HSMC-ECS501	Soft skills and Interpersonal Communication	3	-	-	3	3	20	20	60	-	-	100
2	PCC-ECS501	Theory of Computer Science	3	-	2	5	4	20	20	60	25	25	150
3	PCC-ECS502	Microcontrollers and Applications	3	-	2	5	4	20	20	60	25	25	150
4	ESC-ECS501	Web Technologies	3	-	2	5	4	20	20	60	25	25	150
5	PEC-ECS501X	Professional Elective 1	3	-	2@	5	4	20	20	60	25	25	150
<b>Total</b>			<b>15</b>	<b>-</b>	<b>8</b>	<b>23</b>	<b>19</b>				<b>Total marks</b>		<b>700</b>
Course Description			Non-Credited Mandatory Course (Passing is mandatory for this course)										Term Work
1	MC-ECS501	Indian constitution	1	-	-	1	(Non Credit)				25	25	
Course Description			Contact Hrs. during Week End / Semester Break/ End of Semester (Between 21 <sup>st</sup> and 25 <sup>th</sup> Week)										
1	SI-ECS501	Summer Internship	-	-	-	160 * - 240*	-	-	-	-	-	-	-
Course Description			Contact Hrs. during Week End / Semester Break/ End of Semester (Between 21 <sup>st</sup> and 25 <sup>th</sup> Week) / During Semester										
1	AP-ECS501	Activity Points	-	-	-	48@	-	-	-	-	-	-	-
Course Description			Teaching scheme (Holistic Multidisciplinary Education - HME) (Conducted in the beginning of Semester during first 3 Weeks)					Assessment/Evaluation Scheme					
								Presentation		Report		Term Work	
								AC		AC			
1	ESD-ECS501	Employability Skill Development - III	-	-	30	30	1	Based on Parameters Decided by Training and Placement Cell					50
2	HME-ECSPS501	Professional Skill V(Industry / Research /Entrepreneurship)	15	-	30	45	2	50		25		75	
3	HME-ECSPBL501	Project Based Learning - III	-	-	30	30	1	25		-		25	
4	HME-ECSRBL501	Research Based Learning-I	-	-	30	30	1	25		25		50	
<b>Total</b>			<b>15</b>	<b>-</b>	<b>120</b>	<b>135</b>	<b>5</b>				<b>Total marks</b>		<b>200</b>
<b>Total</b>											<b>Grand Total marks:</b>		<b>925</b>

IA- In-Semester Assessment, ESE- End Semester Examination, PR- Practical Examination, TW – Term Work Examination, OR- Oral Examination, AC- Activity evaluation

<b>PROFESSIONAL ELECTIVE I</b>		
<b>Course Code</b>	<b>Course name</b>	<b>Domain</b>
PEC-ECS5011	Advance Digital Communication	1
PEC-ECS5012	Virtual Instrumentation	2
PEC-ECS5013	Internet Programming	3
PEC-ECS5014	Advanced Database Management System	4
PEC-ECS5015	Artificial Intelligence and Machine Learning	5

\* This is part of Summer Internship but can start in winter. Students may go upto 240 hrs. to acquire maximum 6 credits in Semester 6.

Total hrs. mentioned should be completed till end of Semester 4. Credits will be awarded at the end of 6<sup>th</sup> Semester and will be reflected in the Grade Card of 6<sup>th</sup> Semester.

Student will get 1 year span to acquire the credits. Students should collectively acquire total contact hrs in below given activities in a span of 1 year. Student will submit a report to earn Term work marks in internship.

**Following activities should be considered for Summer Internship: -**

- 1) Participation in inhouse internship at the end of 5<sup>th</sup> and 6<sup>th</sup> Semester of 2 week each.
- 2) Other activity which also will be considered are: Participation in Hackathon, Development of new Product/ Business Plan / Registration of start-up, Participation in IPR workshop/Leadership talks/Idea/ Design / Innovation/Technical Expos, Internship with Industry / Govt. / NGO/ PSU/MSME/Online Internship, Long Term Goals under Rural Internship

Note:- For Above Activities mentioned in point 2, if Student is part of Organizing Committee or Participating a Competition at University/State/National/international Level then it will be considered as Internship else it will be considered as Activity Points.

@ As per AICTE, Students has to earn 100 Points by participating in 400 Hrs. of activities during 4 years of Engineering. After Completing 48 hrs. of Activities, Students can earn 12 Points. This Points will not be reflected in Grade Card. Separate transcript will be issued to students after completion of Final Year.



**TCET**  
**DEPARTMENT OF ELECTRONICS AND COMPUTER SCIENCE (E&CS)**  
**(Accredited by NBA for 3 years, 3<sup>rd</sup> Cycle Accreditation w.e.f. 1<sup>st</sup> July 2022)**  
Choice Based Credit Grading System (CBCGS)  
Under TCET Autonomy



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Chairman BOS

Vice-Principal

Principal