

T.T. (Semester V) B.TECH. Internet of Things (IOT)
Choice Based Credit Grading Scheme with Holistic and Multidisciplinary Education (HME) (CBCGS- HME 2020)
TCET Autonomy scheme (w.e.f. A.Y. 2020-21)

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		Tutorial	Practical	Contact Hours	Theory (100/50)		Practical/		Term	Total
			40/20	60/30	Oral (25)							Work (25)					
					IA	ESE							PR/OR	TW			
1	HSMC-IOT501	Soft Skills and Interpersonal Communication	3	-	-	3	3	20	20	60	-	-	100				
2	PCC-IOT502	Cryptography and Network Security	3	-	2	5	4	20	20	60	25	25	150				
3	PCC-IOT503	IOT Networking and Protocols	3	-	2	5	4	20	20	60	25	25	150				
4	ESC-IOT501	Microcontroller & Embedded System	3	-	2	5	4	20	20	60	25	25	150				
5	PEC-IOT501X	Professional Elective 1	3	-	2@	5	4	20	20	60	25	25	150				
Total			15	-	8	23	19				Total marks		700				
Course Description			Non Credited Mandatory Course(Passing is mandatory for this course)									Term					
												Work					
1	MC-IOT501	Indian constitution	1	-	-	1	(Non Credit)	Passing is mandatory for this course				25	25				
Course Description			Contact Hrs. during Week End / Semester Break/ End of Semester (Between 21st and 25th Week)														
1	SI-IOT501	Summer Internship	-	-	-	160* - 240*	-	-	-	-	-	-	-				

Course Description	Contact Hrs. during Week End / Semester Break/ End of Semester (Between 21st and 25th Week)/During Semester
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1	AP-IOT501	Activity Points	-	-		48@	-	-	-	-	-	
Course Description			Teaching scheme Holistic and					Assessment/Evaluation Scheme				
			Multidisciplinary Education(HME)					Presentation		Report		Term
			(Conducted in the beginning of Semester during first 3 Weeks)					AC		AC		Work
1	ESD-IOT501	Employability Skill Development - III	-	-	30	30	1	Based on Parameters Decided by Training and Placement Cell			50	
2	HSD-IOTPS501	Professional Skill V(Tableau)	15	-	30	45	2	50		75	75	
3	HME IOTPBL501	Project Based Learning - III	-	-	30	30	1	25		25	25	
4	HME IOTRBL501	Research Based Learning-I	-	-	30	30	1	25		50	50	
		Total	15	-	120	135	5	Total marks			200	
		Total					24	Grand Total marks:			925	

PROFESSIONAL ELECTIVE I		
Course Code	Course name	Domain
PEC-IOT5011	Design and Analysis of Algorithm	1
PEC-IOT5012	Soft computing	2

PEC-IOT5013	Data Mining	3
PEC-IOT5014	Artificial Intelligence	4
PEC-IOT5015	Signal System and Digital Signal Processing	5

1. IA- In-Semester Assessment, ESE- End Semester Examination, PR- Practical Examination, TW – Term Work Examination, OR- Oral Examination, AC- Activity evaluation 2.

@-Professional Elective Courses Lab can be conducted in the form of Capstone Project.

*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 Semester6. Credits will be awarded at the end of 6thSemester and will be reflected in the Grade Card of 6th 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 5th and 6^h 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. These points will not be reflected in Grade Card. Separate transcript will be issued to students after completion of Final Year.

Dr. S.C. Patil/ Dr. Lochan Jolly
 Chairman BOS/ HOD-IoT

Dr. Kamal Shah
 Vice-Principal

Dr. B.K.Mishra
 Principal