



Zaydu Singh Charitable Trust's (Regd.)

**THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY**

Autonomous College Affiliated to University of Mumbai

Approved by All India Council for Technical Education (AICTE) and Government of Maharashtra (GoM)

Conferred Autonomous Status by University Grants Commission (UGC) for 10 years w.e.f. A.Y. 2019-20

Amongst Top 200 Colleges in the Country, Ranked 193<sup>rd</sup> in NIRF India Ranking 2019 in Engineering College category

• ISO 9001:2015 Certified • Programmes Accredited by National Board of Accreditation (NBA), New Delhi

• Institute Accredited by National Assessment and Accreditation Council (NAAC), Bangalore

Website : www.tcetmumbai.in

**Department of Electronics & Telecommunication Engineering**

S.E. Semester –III

Choice Based Credit Grading Scheme with Holistic and Multidisciplinary Education (CBCGS-HME 2023)

Proposed TCET Autonomy Scheme (w.e.f. A.Y. 2023-24)

**I. Academic and Research as per AICTE Model Curriculum**

I. Academic and Research as per AICTE Model Curriculum															
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)	60	Practical / Oral / Presentation (25)		Term Work (25)	Total		
			Theory	Tutorial	Practical	Contact Hours				40				PR/OR	TW
										IA					
ISE	IE														
1	HSMC-301	Universal Human Values – II	2	1	-	3	3	20	20	60	-	25	125		
2	BSC-ETC301	Mathematics – III	3	1	-	4	4	20	20	60	-	25	125		
3	ESC-ETC301	Networks & Control Engineering	3	-	2	5	4	20	20	60	25	25	150		
4	PCC-ETC301	Electronic Devices & Circuits	3	1	2	6	5	20	20	60	25	25	150		
5	PCC-ETC302	Digital Logic Design	3	-	2	5	4	20	20	60	25	25	150		
<b>Total</b>			<b>14</b>	<b>3</b>	<b>6</b>	<b>23</b>	<b>20</b>	<b>Total marks (Academic)</b>						<b>700</b>	

**II. Professional Development, Industry Practices & Internship**

II. Professional Development, Industry Practices & Internship														
Course Description			Teaching scheme (Holistic and Multidisciplinary Education-HME)					Assessment/Evaluation Scheme						
								Presentation AC		Report AC		Term Work	Total	
1	HME – ETCPS301	Professional Skills II (Generic Track/Industry Track/Core Track)	-	-	2	2	1	15		10		25	25	
2	HME –IP301	Industry Practice-I (Generic Track/Industry Track/Core Track)	-	-	2	2	1	15		10		25	25	
3	SI- ETC301	Summer Internship	-	-	-	120*	-	-		-		-	-	
<b>Total</b>			<b>-</b>	<b>-</b>	<b>4</b>	<b>04</b>	<b>2</b>	<b>Total marks</b>						<b>50</b>

**III. Holistic and Personality Development**

III. Holistic and Personality Development												
Course Description										Term Work	Total	
1	MC-301	Attitude and Aptitude Development 3/NCC	1	-	-	1	(Non Credit)			-	25	25
2	AP- ETC301	AICTE Activity Point	-	-	-	48#	-	-		-		-
<b>Total</b>			<b>15</b>	<b>3</b>	<b>10</b>	<b>28</b>	<b>22</b>	<b>Grand Total marks</b>				<b>775</b>



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### I. Academic and Research as per AICTE Model curriculum:

1. The Academic year will be conducted through two semesters. Odd Semester (1st July-31st December) and Even Semester (1st January-30th June) as per Academic Calendar.
2. The credit calculation is a) Theory/Tutorial: 1 credit=1 hr b) Practical/ITP: 1 credit=2 hrs c) Experiential Learning/Internship: 1 credit= 40-45 hrs, Professional skills/Industry Practices/Industry Certification: 1 credit=2 hrs, Activity Based Learning/Project Based Learning/Research Based Learning/B.E project : 1 credit=2 hrs
3. Contact Hrs for students per semester(15 weeks) is: Direct Contact hrs 35 x 15 = 525 + Indirect Contact = 8 x 15 =120 + Internship =60 hrs / semester = 705 hrs/ semester

### II. Professional Development, Industry Practices & Internship:

4. Professional Skills & Industry Practice activity will run in the form of integrated theory and practical course & syllabus is linked with Industry or respective NSQF level.
5. Students can opt for any one track- Generic track /Industry track / Core track.
6. The summer/winter Internship will be conducted in the form of in-house/outhouse which is mandatory for all students in semester break. The internship credits accumulated will be credited in even semester.

### III. Holistic & Personality Development:

7. Activity Based Learning/Project Based Learning/Research Based Learning will be conducted in Sem IV,V and VI respectively.
8. # 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.
9. Professional Body/Extra Curricular/Co-Curricular/ Multidisciplinary learning/Workshop/Technical Seminar/Domain Activity/ NCC(Physical education & Defense studies)/Outreach activities will be considered under AICTE 100 activity points.

### IV. Specialization with Multidisciplinary Learning:

10. Award of Major & Minor degree: Students need to acquire 18 credits in specialized emerging technology areas for award of Major(Honors/Research) /Minor degree which is optional.

### V. Multiple Entry & Exit:

11. Multiple Entry & Exit: Provision for multiple entry and multiple exit is as per NEP 2020 & regulatory guidelines and notification of the Institute.
12. Academic Bank of Credits:The credits accumulation, transfer and lateral movement of students is as per policy guidelines.

### VI. Examination Conduct and Evaluation & Assessment:

13. For continuous evaluation, examination shall be conducted under two heads: IA – In-Semester Assessment, ESE – End Semester Examination.

Sr.No	Head	Type	Duration	Marks
1	In Semester Examination I&II	Summative	1 hr	20 marks each
2	In Semester Examination III	Formative	1 hr (Group activity)	20 marks
3	Innovative Examination	Formative	1 hr (Group activity)	20 marks
4	End Semester Examination	Summative	2 hrs	60 marks

14. The evaluation & assessment for acquiring additional 18 credits for Major(Honors)/Minor/Research degrees will be held along with IA/ESE.

Sd/-  
Dr. Payel Saha  
HoD  
Chairman-BoS

Sd/-  
Dr. Sheetal Rathi  
Dean Academic  
Convener-Academic Council

Sd/-  
Dr. R R Sedamkar  
Vice Principal  
Member Secretary-Academic Council

Sd/-  
Dr. B. K. Mishra  
Principal  
Chairman-Academic Council