THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

Jagdu Singh Charitable Trust's (Regd.)

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 193rd 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

Estd. in 2001

Website : www.tcetmumbai.in

Department of Electronics & Telecommunication Engineering

T.E. Semester –V
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

Sr. No.	Course Code	Course Title	Theory	Tutorial	Practical	Contact Hours	Credits	ISE	IE	ESE	PR/OR	TW	Total
			Hours Per Week					Theory (100/50)			Practical / Oral / Presentation (25)	Term Work (25)	
								40		60			
								IA			PR/OR	TW	
1	HSMC – 501	Soft Skill & Interpersonal Communication	3	-	-	3	3	20	20	60	-	-	100
2	ESC-ETC501	Data Structures	3	-	2	5	4	20	20	60	25	25	150
3	PCC-ETC501	Discrete Time Signal Processing	3	1	-	4	4	20	20	60	-	25	125
4	PCC-ETC502	Analog & Digital Communiation	3	-	2	5	4	20	20	60	25	25	150
5	PCC-ETC503	Microcontrollers & Applications	3	-	2	5	4	20	20	60	25	25	150
		Total	**15**	**1**	**6**	**22**	**19**	**Total marks (Academic)**					**675**

II. Professional Development, Industry Practices & Internship

Sr. No.	Course Code	Course Description	Teaching scheme (Holistic and Multidisciplinary Education-HME)					Presentation AC	Report AC	Term Work	Total
1	HME – ETCPS501	Professional Skills IV (Generic Track/Industry Track/Core Track)	-	-	2	2	1	15	10	25	25
2	HME –IP501	Industry Practice-III (Generic Track/Industry Track/Core Track)	-	-	2	2	1	15	10	25	25
3	HME-PBL501	Project Based Learning	-	-	2	2	1	15	10	25	25
4	SI- ETC501	Summer Internship	-	-	-	120*	-	-	-	-	-
		Total	**-**	**-**	**6**	**06**	**3**	**Total marks (HME)**			**75**

III. Holistic and Personality Development

Sr. No.	Course Code	Course Description							Term Work	Total
1	MC-501	Indian Constitution/NCC	1	-	-	1	(Non Credit)	-	25	**25**
3	AP- ETC501	AICTE Activity Points	-	-	-	48#	-	-	-	-
		Total	**16**	**1**	**12**	**29**	**22**	**Grand Total marks**		**775**

IV. Specialization with Multidisciplinary Learning(Optional)

Sr. No.	Course Code	Course Title	Theory	Tutorial	Practical	Contact Hours	Credits	ISE	IE	ESE	PR/OR	TW	Total
1	MDL-501	Core Course in Emerging Areas of Specialization	3	-	4	7	5	20	20	60	25	-	**125**

1

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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 aquire 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/-	Sd/-	Sd/-	Sd/-
Dr. Payel Saha	Dr. Sheetal Rathi	Dr. R R Sedamkar	Dr. B. K. Mishra
HoD	Dean Academic	Vice Principal	Principal
Chairman-BoS	Convenor-Academic Council	Member Secretary-Academic Council	Chairman-Academic Council