



Department of Information Technology

T.E. Semester –VI

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					Modes of Continuous Assessment / Evaluation						
			Hours Per Week				Credits	Theory (100/50)		Practical / Oral / Presentation (25)	Term Work (25)	Total		
								40	60					
								IA					ESE	
			Theory	Tutorial	Practical	Contact Hours		ISE	IE					
1	HCMC-601	Work Place Mental Health	2	-	-	2	2	10	10	30	-	25	75	
2	PCC-IT 601	Data Mining and Business Intelligence	3	-	2	5	4	20	20	60	25	25	150	
3	PCC-IT 602	Software Engineering	3	-	2	5	4	20	20	60	25	25	150	
4	PEC- IT 601X	Professional Elective-I	3	-	-	3	3	20	20	60	-	25	125	
5	OEC-601X	Open Elective-I	3	-	-	3	3	20	20	60	-	25	125	
6	HME –RBL601	Research Based Learning	-	-	2	2	1	-	-	-	25**		25	
		Total	14	-	4	18	16	Total Marks (Academic)						650

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	Report		Term Work	
								AC	AC			
1	HME –IT-PS601	Professional Skills V (Generic Track/Industry Track/Core Track)	-	-	2	2	1	15	10		25	
2	HME –IT-IP601	Industry Practice-IV (Generic Track/Industry Track/Core Track)	-	-	2	2	1	15	10		25	
3	SI- IT 601	Summer Internship	-	-	-	120*	3	-	-	50	50	
		Total	-	-	4	04	5	Total marks (HME)				100

III. Holistic and Personality Development

Course Description										Term Work	
2	AP-IT601	AICTE Activity Point	-	-	-	52#	-	-	-	-	-
		Total	14	-	10	24	22	Grand Total marks			750

IV. Specialization with Multidisciplinary Learning(Optional)

1	MDL-601	Advanced course -I in Emerging Areas of specialization	3	-	4	7	5	20	20	60	25	-	125
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Exit option with Bachelor's Degree in Vocation(B.Voc) or B.Sc (Engg/Tech) (131 Credits)

** Research Based Learning 25 Marks: 15 Marks for Presentation and 10 Marks for Report



PROFESSIONAL ELECTIVE I

Course Code	Course name	Domain
PEC-IT 6011	Internet of things	1
PEC-IT 6012	Project Management	2
PEC- IT 6013	Artificial Intelligence	3
PEC-IT 6014	Ethical hacking and Digital Forensics	4
PEC- IT 6015	Analysis of Algorithms	5

List of Courses- Open Electives (Interdisciplinary Offerings)

SEM-VI Emerging Technologies		
OPEN ELECTIVE I		
To be conducted by dept. for other dept. students (e.g. Not for COMP/IT background students if completed as a core or PE course)		
Sr.No	Course Code- OEC601X (Dept. Name)	Course name
1	COMP	Basics of Social Network Analysis (SNA)
2	IT	Basics of Robotic Process Automation (RPA)
3	EXTC	Fundamentals of Communication Engineering
4	E&CS	Introduction to Eco-design of Sustainable Electronic Products
5	CIVIL	Fundamentals of Development Engineering
6	MECH	Introduction to Industry 4.0
7	AIDS	Introduction to Artificial Intelligence and Data Science
8	IOT	Introduction to IoT Applications
9	AIML	Introduction to Blockchain
10	CS&E	Basics of Cyber Security and Laws
11	MME	Introduction to Robotics
12	EH&S	English for Competitive Exams



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 $35 \times 15 = 525$ + Indirect Contact = $8 \times 15 = 120$ + 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/Minor/Research degrees will be held along with IA/ESE

SD/-

SD/-
Dr.Rajesh Bansode
HoD
Chairman-BoS

SD/-
Dr.Sheetal Rathi
Dean Academic
Convenor-Academic Council

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

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