T.E. Semester-V
Choice Based Credit Grading Scheme with Holistic and Multidisciplinary Education (CBCGS-HME 2020)
TCET Autonomy Scheme (w.e.f. A.Y. 2022-23)

Sr. No.	Course Code	Course Title	Theory	Tutorial	Practical	Contact Hours	Credits	ISE (20)	IE (20)	ESE	PR/OR	TW	Total
		Course Description	**Teaching Scheme (Program Specific)** — Mode of Teaching /Learning/Weightage — Hours Per Week					**Examination Scheme (Academic)** — Modes of Continuous Assessment/Evaluation — Theory (100) — IA 40 / ESE 60			Practical/Oral	Term Work	
1	HSMC-IT 501	Professional Ethics and CSR	3	-	-	3	3	20	20	60	-	-	100
2	PCC –IT501	Operating System	3	-	2	5	4	20	20	60	25	25	150
3	PCC –IT502	Cryptography & Network Security	3	-	2	5	4	20	20	60	25	25	150
4	PCC -IT503	Web Programming	3	-	2	5	4	20	20	60	25	25	150
5	PEC –IT501X	Professional Elective-I	**3**	-	2@	5	4	20	20	60	25	25	150
		Total	**15**	**-**	**8**	**23**	**19**	**Total marks**					**700**

	Course Code	Course Description	Non-Credited Mandatory Course (Passing is mandatory for this course)									Term Work	Total
1	MC –IT501	Indian Constitution	1	-	-	1	(Non Credit)	-				25	**25**

	Course Code	Course Description	Contact Hrs. during Week End / Semester Break/ End of Semester (Between 21st and 25th Week)										
1	SI-IT 501	Summer Internship	-	-	_	160 *	_	-	-	-	-	-	-

	Course Code	Course Description	Contact Hrs. during Week End / Semester Break/ End of Semester (Between 21st and 25th Week) / During Semester										
1	AP-IT 501	Activity Points	-	-	-	48#	-	-	-	-	-	-	-

Sr. No.	Course Code	Course Description / Course Title	Theory	Tutorial	Practical	Contact Hours	Credits	Presentation AC	Report AC	Term Work (50)
			Teaching scheme (Holistic and Multidisciplinary Education-HME) (Conducted in the beginning of Semester during first 3 Weeks)					**Assessment/Evaluation Scheme**		
1	ESD-IT 501	Employability Skill Development - III	-	-	30	30	1	Based on Parameters Decided by Training and Placement Cell		50
2	HME –ITPS 501	Professional Skills V Data Preprocessing for Machine Learning	15	-	30	45	2	50	25	75
3	HME-ITPBL 501	Project Based Learning-III	-	-	30	30	1	25	-	25
4	HME – ITRBL501	Research Based Learning-I	-	-	30	30	1	25	25	50
		Total	**15**	**-**	**120**	**135**	**5**	**Total Marks**		**200**
		Total	**31**	**-**	**128**	**158**	**24**	**Grand Total marks:**		**925**

Professional Elective 1	
Course Code	**Course name**
PEC-IT5011	Green IT
PEC-IT5012	No SQL
PEC-IT5013	Microprocessor- Microcontroller Embedded System
PEC-IT5014	Distributed System
PEC-IT5015	IT Strategy & Standards

Guidelines for the Semester:

Semester Conduct:
1. The Academic year will be conducted through two semesters. Odd Semester (1st July-31st December) and Even Semester (1st January-30th June).
2. The credit calculation is
   a) Theory/Tutorial:1 credit=1 hr b) Practical: 1 credit =2 hrs c) Experiential Learning/Internship: 1 credit= 40 hrs
   d) Professional skills/Industry Practices/Industry Certification: 1 credit =2 hrs e)Holistic Development - Activity Based Learning/Project Based Learning/Research Based Learning: 1 credit=2 hrs
3. During Academic conduct, practical load shall be conducted in batches.
   @-Professional Elective Courses Lab will be conducted in the form of Capstone Project

Evaluation and Assessment:
4. For continuous evaluation, examination shall be conducted under two heads: IA – In-Semester Assessment, ESE – End Semester Examination. Under IA, 20 marks of ISE (In-Semester Examination) shall be conducted for 1 hour. 20 marks of IE (Innovative Learning with Examination) shall also be conducted under IA. ESE shall be conducted for 60 marks with duration of 2 hours.
5. Evaluation and assessment will be formative and summative.
6. Two In semester Examination ISE-I and II (3 modules each) will be summative.
7. One In Semester Examination, ISE-III and Innovative learning with Examination-IE will be formative.
8. End semester Examination, ESE will be Summative and Term Work and Oral/Practical exam and ESE will be conducted at the end of semester.

Internship:
9. * The summer Internship will be conducted in the form of in-house/outhouse internship which is mandatory for all students in semester break.
   The internship credits accumulated will be credited in even semester.

AICTE 100 Activity Points:
10. # 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.
    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

Sd/-   Sd/-   Sd/-
Dr. Rajesh Bansode   **Dr. Sheetal Rathi**   **Dr. B. K. Mishra**
BoS Chairman, HoD-IT   **Member Secretary Academic Council, Dean**   **Chairman Academic Council, Principal**
                                         Academic