**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) [40 IA / 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-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 | Total |
|---|---|---|---|---|---|---|---|---|
| 1 | MC –IT501 | Indian Constitution | 1 | - | - | 1 | (Non Credit) | | | | | 25 | **25** |

| 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 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 | 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 (Industry/Research/ Entrepreneurship)-ASP.NET | 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** | | | | | **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 |

1. IA-In-Semester Assessment, ESE-End Semester Examination, ISE- In-Semester Examination , IE Innovative Examination PR- Practical Examination, TW – Term Work Examination, OR – Oral Examination, AC-Activity Evaluation.

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

3. For continuous evaluation, examination shall be conducted under two heads: IA – In-Semester Assessment, ESE – End Semester Examination. Under IA - 20 marks ISE to be conducted for 1 hour 20/10 marks for IE. 60 marks ESE will be conducted for 2 hours. Out of 3 IA, best 2 will be considered.

* Under the head of Summer Internship, student can complete internship from winter to summer with 160 hours and acquire 4 credits till the end of Semester 6. The summer Internship will be conducted in the form of in-house internship which is mandatory for all students in summer semester break. Credits will be awarded at the end of 6 th Semester and will be reflected in the Grade Card of 6 th Semester. Student will get 1-year span to acquire the credits and complete total contact hours. Student shall 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 6th 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. This Points will not be reflected in Grade Card. Separate transcript will be issued to students after completion of Final Year.