

B.E. Semester-VII

Proposed Choice Based Credit Grading Scheme with Holistic Student Development (CBCGS-HME 2020)

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

| Course Description | | | Teaching Scheme (Program Specific) | | | | Examination Scheme (Academic) | | | | | | |
|--------------------|----------------|---|---|----------|-----------|---------------|-------------------------------|---|-----|----------------|-----------|----------------|------------|
| Sr. No. | Course Code | Course Title | Mode of Teaching /Learning/Weightage | | | | Credits | Modes of Continuous Assessment/Evaluation | | | | | |
| | | | Hours Per Week | | | | | Theory (100) | | Practical/Oral | Term Work | Total | |
| | | | Theory | Tutorial | Practical | Contact Hours | | 40 | 60 | | | | |
| | | | | | | | | IA | ESE | PR/OR | TW | | |
| ISE (20) | IE (20) | ESE | PR/OR | TW | | | | | | | | | |
| 1 | PCC-IT 701 | Machine Learning for IT Application Development | 3 | - | 2 | 5 | 4 | 20 | 20 | 60 | 25 | 25 | 150 |
| 2 | PEC- IT 701X | Professional Elective III | 3 | - | 2@ | 5 | 4 | 20 | 20 | 60 | 25 | 25 | 150 |
| 3 | PEC -IT702X | Professional Elective IV | 3 | - | 2@ | 5 | 4 | 20 | 20 | 60 | 25 | 25 | 150 |
| 4 | OEC –IT 701X | Open Elective-II | 3 | - | - | 3 | 3 | 20 | 20 | 60 | - | - | 100 |
| 5 | HSMC- IT701 | Finance Management | 3 | - | - | 3 | 3 | 20 | 20 | 60 | - | - | 100 |
| 6 | PROJ- IT 701 | Project- I | - | - | 6 | 6 | 3 | - | - | - | 25 | 25 | 50 |
| | | Total | 15 | - | 12 | 27 | 21 | Total marks | | | | | 700 |
| Course Description | | | Contact Hrs. during Semester Break/ End of Semester (Between 21st and 25th Week) | | | | | | | | | | |
| 1 | SI-IT701 | Summer Internship | - | - | - | 120* | - | - | - | - | - | - | - |
| 2 | AP-IT701 | Activity Point | - | - | - | 48# | - | - | - | - | - | - | - |
| Course Description | | | Teaching scheme (Holistic and Multidisciplinary Education-HME) (Conducted in the beginning of Semester during first 3 Weeks) | | | | Assessment/Evaluation Scheme | | | | | | |
| | | | | | | | | Presentation | | Report | | Term Work (50) | |
| | | | | | | | | AC | | AC | | | |
| 1 | HME –ITPS701 | Professional Skills VII - (R Programming Language) | 15 | - | 30 | 45 | 2 | 50 | | 25 | | 75 | |
| 2 | HME –ITRBL 701 | Research Based Learning III | - | - | 30 | 45 | 1 | 25 | | 25 | | 50 | |
| | | Total | 15 | - | 60 | 90 | 3 | Total Marks | | | | | 125 |
| | | Total | 30 | - | 72 | 117 | 24 | Grand Total marks: | | | | | 825 |

| Professional Elective III | | Professional Elective IV | | Open Elective II | |
|---------------------------|-------------------------------|--------------------------|--|------------------|---|
| Subject Code | Name | Subject Code | Name | Subject Code | Name |
| PEC-IT 7011 | Wireless Networks | PEC-IT 7021 | Soft Computing | OEC-IT 7011 | Management Information System |
| PEC-IT 7012 | High Performance Computing | PEC-IT 7022 | Software Testing and Quality Assurance | OEC-IT 7012 | Human Resource Management |
| PEC-IT 7013 | Advanced Internet Programming | PEC-IT 7023 | Digital Signal and Image Processing | OEC-IT 7013 | Design Thinking and Problem Solving |
| PEC-IT 7014 | Big Data Analytics | PEC-IT 7024 | User Interaction Design | OEC-IT 7014 | Disaster Management and Mitigation Measures |
| PEC-IT 7015 | DevOps | PEC-IT 7025 | Healthcare Information System | OEC-IT 7015 | Research Methodology |
| | | | | OEC-IT 7016 | Operation Research |

Guidelines for the Semester:

Semester Conduct:

- The Academic year will be conducted through two semesters. Odd Semester (1st July-31st December) and Even Semester (1st January-30th June).
- 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
- 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:

- 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.
- Evaluation and assessment will be formative and summative.
- Two In semester Examination ISE-I and II (3 modules each) will be summative.
- One In Semester Examination, ISE-III and Innovative learning with Examination-IE will be formative.
- 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:

- * 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:

- # 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/-
Dr. Rajesh Bansode
 BoS Chairman, HoD-IT

SD/-
Dr. Sheetal Rathi
 Member Secretary Academic Council,
 Dean Academic

SD/-
Dr. B. K. Mishra
 Chairman Academic Council, Principal