

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

VI SEMESTER

| Sl No | Course and Course code | | Course Title | Teaching Department | Teaching Hours /Week | | | Examination | | | | Credits |
|-------|------------------------|---------|---|---|----------------------|----------|--------------------|-------------------|-----------|-----------|-------------|---------|
| | | | | | Theory Lecture | Tutorial | Practical/ Drawing | Duration in hours | CIE Marks | SEE Marks | Total Marks | |
| | | | | | L | T | P | | | | | |
| 1 | PCC | 18ME61 | Finite Element Methods | | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 2 | PCC | 18ME62 | Design of Machine Elements II | | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 3 | PCC | 18ME63 | Heat Transfer | | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 4 | PEC | 18ME64X | Professional Elective -1 | | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 5 | OE | 18ME65X | Open Elective -A | | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 6 | PCC | 18MEL66 | Computer Aided Modelling and Analysis Lab | | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 7 | PCC | 18MEL67 | Heat Transfer Lab | | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 8 | MP | 18MEM68 | Mini-project | | -- | -- | 2 | 03 | 40 | 60 | 100 | 2 |
| 9 | Internship | -- | Internship | To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters. | | | | | | | | |
| TOTAL | | | | | 15 | 10 | 06 | 24 | 320 | 480 | 800 | 24 |

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.

Professional Elective -1

| Course code under 18XX64X | Course Title | Course code under 18XX64X | Course Title |
|---------------------------|------------------------------------|---------------------------|----------------------------------|
| 18ME641 | Non-Traditional Machining | 18ME644 | Vibrations and Noise Engineering |
| 18ME642 | Refrigeration and Air conditioning | 18ME645 | Composite Materials Technology |
| 18ME643 | Theory of Elasticity | 18ME646 | Entrepreneurship Development |

Open Elective -A

Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX65X).

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.

Mini-project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the Mini-project work, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college. The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Mini-project:

(i) **Single discipline:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in the semester end examination (SEE) conducted at the department.

(ii) **Interdisciplinary:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belongs to.

Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.