

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)

VII 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 |
| | | | | | | | | | | | | |
| 1 | PCC | 18EC71 | Computer Networks | | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 2 | PCC | 18EC72 | VLSI Design | | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 3 | PEC | 18XX73X | Professional Elective - 2 | | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 4 | PEC | 18XX74X | Professional Elective - 3 | | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 5 | OEC | 18XX75X | Open Elective -B | | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 6 | PCC | 18ECL76 | Computer Networks Lab | | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 7 | PCC | 18ECL77 | VLSI Laboratory | | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 8 | Project | 18ECP78 | Project Work Phase - 1 | | -- | -- | 2 | -- | 100 | -- | 100 | 1 |
| 9 | Internship | -- | Internship | (If not completed during the vacation of VI and VII semesters, it shall be carried out during the vacation of VII and VIII semesters) | | | | | | | | |
| TOTAL | | | | | 15 | 4 | 6 | 21 | 380 | 420 | 800 | 20 |

Note: PCC: Professional core, PEC: Professional Elective.

Professional Elective - 2

| Course code under 18XX73X | Course Title |
|---------------------------|-------------------------------|
| 18EC731 | Real Time System |
| 18EC732 | Satellite Communication |
| 18EC733 | Digital Image Processing |
| 18EC734 | Data Structures using C++ |
| 18EC735 | DSP Algorithms & Architecture |

Professional Electives - 3

| Course code under 18XX74X | Course Title |
|---------------------------|--------------------------------|
| 18EC741 | IOT & Wireless Sensor Networks |
| 18EC742 | Automotive Electronics |
| 18EC743 | Multimedia Communication |
| 18EC744 | Cryptography |
| 18EC745 | Machine Learning |

Open Elective -B

(i) 18EC751 Communication Theory (ii) 18EC752 Neural Networks

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 18XX75X).

Selection of an open elective shall not be allowed if,

- Y The candidate has studied the same course during the previous semesters of the programme.
- Y The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- Y 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.

Project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

(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 project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), 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 guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 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.

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.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

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VIII SEMESTER

| Sl. No | Course and Course code | | Course Title | Teaching/Experiment | Teaching Hours /Week | | | Examination | | | Credits | |
|--------------|------------------------|---------|-------------------------------------|--|----------------------|-----------|-------------------|-------------------|------------|------------|------------|-------------|
| | | | | | Theory/Lecture | Tutorial | Practical/Drawing | Duration in hours | CIE Marks | SEE Marks | | Total Marks |
| | | | | | L | T | P | | | | | |
| 1 | PCC | 18EC81 | Wireless and Cellular Communication | | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 2 | PEC | 18XX82X | Professional Elective - 4 | | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 3 | Project | 18ECP83 | Project Work Phase - 2 | | -- | -- | 2 | 03 | 40 | 60 | 100 | 8 |
| 4 | Seminar | 18ECS84 | Technical Seminar | | -- | -- | 2 | 03 | 100 | -- | 100 | 1 |
| 5 | Internship | 18ECI85 | Internship | Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.) | | | | 03 | 40 | 60 | 100 | 3 |
| TOTAL | | | | | 06 | -- | 4 | 15 | 260 | 240 | 500 | 18 |

Note: PCC: Professional Core, PEC: Professional Elective.

Professional Electives - 4

| Course code under 18XX82X | Course Title |
|---------------------------|----------------------------------|
| 18EC821 | Network Security |
| 18EC822 | Micro Electro Mechanical Systems |
| 18EC823 | Radar Engineering |
| 18EC824 | Optical Communication Networks |
| 18EC825 | Biomedical Signal Processing |

Project Work

CIE procedure for Project Work Phase - 2:

(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 project work phase -2, shall be based on the evaluation of project work phase -2 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 guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 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 Project Work Phase - 2:

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

(ii) Interdisciplinary: Contribution to the 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 belong to.

Internship: Those, who have not pursued /completed the internship shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements .

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).