

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
B.E. in CSE (Artificial Intelligence)
Scheme of Teaching and Examinations 2022
 Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
 (Effective from the academic year 2023-24)

| VI SEMESTER | | | | | | | | | | | | | |
|-------------------------------------|------------------------|------------------------------|---|---|--------------------------------------|-----------------|------------------------------|-----|----------------------------|------------|------------|--------------|---------|
| Sl. No | Course and Course Code | | Course Title | Teaching Department (TD) and Question Paper Setting Board (PSB) | Teaching Hours /Week | | | | Examination | | | | Credits |
| | | | | | Theory Lecture | T u r o r i a l | Prac t i c a l / Dra w i n g | SDA | Dur at i o n i n h o u r s | CIE Mar ks | SEE Mar ks | Total Mar ks | |
| | | | | | | | | | | | | | |
| 1 | IPCC | BCO601 | Microcontrollers & Embedded Systems | TD: CA PSB: CS | 3 | 0 | 2 | | 03 | 50 | 50 | 100 | 4 |
| 2 | PCC | BCS602 | Machine Learning | TD: CA PSB: CS | 4 | 0 | 0 | | 03 | 50 | 50 | 100 | 4 |
| 3 | PEC | BXX613x | Professional Elective Course | TD: CA PSB: CS | 3 | 0 | 0 | | 03 | 50 | 50 | 100 | 3 |
| 4 | OEC | BXX654x | Open Elective Course | TD: CA PSB: CS | 3 | 0 | 0 | | 03 | 50 | 50 | 100 | 3 |
| 5 | PROJ | BCA 685 | Project Phase I | TD: CA PSB: CS | 0 | 0 | 4 | | 03 | 100 | -- | 100 | 2 |
| 6 | PCCL | BCSL606 | Machine Learning lab | TD: CA PSB: CS | 0 | 0 | 2 | | 03 | 50 | 50 | 100 | 1 |
| 7 | AEC/SD C | BXX657x | Ability Enhancement Course/Skill Development Course V | TD and PSB: Concerned department | If the course is offered as a Theory | | | | 01 | 50 | 50 | 100 | 1 |
| | | | | | 1 | 0 | 0 | | | | | | |
| | | | | | If course is offered as a practical | | | | | | | | |
| | | | | | 0 | 0 | 2 | | | | | | |
| 8 | MC | BNSK658 | National Service Scheme (NSS) | NSS coordinator | 0 | 0 | 2 | | | 100 | --- | 100 | 0 |
| | | BPEK658 | Physical Education (PE) (Sports and Athletics) | Physical Education Director | | | | | | | | | |
| | | BYOK658 | Yoga | Yoga Teacher | | | | | | | | | |
| 9 | MC | BIKS609 | Indian Knowledge System | | 1 | 0 | 0 | | 01 | 100 | --- | 100 | 0 |
| Total | | | | | | | | | 500 | 300 | 800 | 18 | |
| Professional Elective Course | | | | | | | | | | | | | |
| BAI613D | | Time Series Analysis | | | BCS613A | | Blockchain Technology | | | | | | |
| BIS613D | | Cloud Computing and Security | | | BCS613D | | Advanced Java | | | | | | |

| Open Elective Course | | | |
|---|---|----------|---|
| BCS654A | Introduction to Data Structures | BIS654C | Mobile Application Development |
| BCS654B | Fundamentals of Operating Systems | BAI654D | Introduction to Artificial Intelligence |
| Ability Enhancement Course / Skill Enhancement Course-V | | | |
| BCGL657A | Mobile Application Development with Flutter | BAIL657C | Generative AI |
| BADL657B | UI/UX | BCSL657D | Devops |
| <p>PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC: Ability Enhancement Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. K : The letter in the course code indicates common to all the stream of engineering. PROJ: Project /Mini Project. PEC: Professional Elective Course. PROJ: Project Phase -I, OEC: Open Elective Course</p> | | | |
| <p>Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practicals of the same course. Credit for IPCC can be 04 and its Teaching–Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23</p> <p>National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.</p> | | | |
| <p>Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of students’ strengths for offering professional electives is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.</p> | | | |
| <p>Open Elective Courses: Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students’ strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.</p> | | | |
| <p>Project Phase-I : Students have to discuss with the mentor /guide and with their helphe/she has to complete the literature survey and prepare the report and finally define the problem statement for the project work.</p> | | | |

