VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Computer Science and Business System

Scheme of Teaching and Examinations 2022

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2023-24)

Course and Course Code Course Title Course Title Course Code Course Title Course Code Code	VII JEI	VIESTER (SW	vappable VII and \	VIII SEIVIESTER)	Teaching	Teaching Hours /Week				Examination				T
1 IPCC BCB701 Business Intelligence and Data Analytics PSB:CS 3 0 2 03 50 50 100 4 2 IPCC BCS702 Parallel Computing TD:CB PSB:CS 3 0 2 03 50 50 100 4 3 PCC BCS703 Cryptography & Network Security TD:CB PSB:CS 4 0 0 03 50 50 100 4 4 PEC BCB714x Professional Elective Course TD:CB PSB:CS 3 0 0 03 50 50 100 3 5 OEC BCB755x Open Elective Course TD:CB PSB:CS 3 0 0 01 50 50 100 3 6 PROJ BCB786 Major Project Phase-II TD:CB PSB:CS 0 0 12 03 100 100 20 6				Course Title	Department (TD) and Question Paper Setting	The ory Lect ure	T u t o ri al	Prac tical / Dra win	SDA	atio n in hou	CIE Mar	SEE Mark	Mark	C r e d it s
PROJ BCB786 Major Project Phase-II PSB:CS 3 0 2 03 50 50 100 4	1	IPCC	BCB701	Business Intelligence and Data Analytics		3	0	2		03	50	50	100	4
3 PCC BCS703 Cryptography & Network Security PSB:CS 4 0 0 03 50 50 100 4 4 PEC BCB714x Professional Elective Course TD:CB PSB:CS 3 0 0 03 50 50 100 3 5 OEC BCB755x Open Elective Course TD:CB PSB:CS 3 0 0 01 50 50 100 3 6 PROJ BCB786 Major Project Phase-II TD:CB PSB:CS 0 0 12 03 100 100 200 6 9SB:CS 0 0 12 03 100 100 200 6	2	IPCC	BCS702	Parallel Computing		3	0	2		03	50	50	100	4
4 PEC BCB/14x Professional Elective Course PSB:CS 3 0 0 03 50 50 100 3 5 OEC BCB755x Open Elective Course TD:CB PSB:CS 3 0 0 01 50 50 100 3 6 PROJ BCB786 Major Project Phase-II TD:CB PSB:CS 0 0 12 03 100 100 200 6	3	PCC	BCS703	Cryptography & Network Security		4	0	0		03	50	50	100	4
OEC BCB755x Open Elective Course PSB:CS 3 0 0 01 50 50 100 3 6 PROJ BCB786 Major Project Phase-II TD:CB PSB:CS 0 0 12 03 100 100 200 6 400 300 700 24	4	PEC	BCB714x	Professional Elective Course	_	3	0	0		03	50	50	100	3
6 PROJ BCB/86 Major Project Phase-II PSB:CS 0 0 12 03 100 100 200 6 400 300 700 24	5	OEC	BCB755x	Open Elective Course		3	0	0		01	50	50	100	3
	6	PROJ BCB786		Major Project Phase-II		0	0	12		03	100	100	200	6
Professional Elective Course											400	300	700	24
				F	Professional Elective Co	urse								

Professional Elective Course													l			
BCS714A Deep Learning						BCB714	С	Total C	Quality Mar	nagement						
BCB714B	Financial & Cost Accounting						BAD714	·D	Social	Network A	nalytics					
Open Elective Course																
BCB755A	Introduction to DBMS				BCB755	С	Software Engineering									
BCB755B	Introduction to Algorithms				BCB755	D										

PCC: Professional Core Course, PCCL: Professional Core Course laboratory, PEC: Professional Elective Course, OEC: Open Elective Course PR: Project Work, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. TD- Teaching Department, PSB: Paper Setting department, OEC: Open Elective Course, PEC: Professional Elective Course. PROJ: Project work

Note: VII and VIII semesters of IV years of the program

- (1) Institutions can swap the VII and VIII Semester Schemes of Teaching and Examinations to accommodate research internships/ industry internships after the VI semester.
- (2) Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether the VII or VIII semesters is completed during the beginning of the IV year or the later part of IV years of the program.

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.

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.

PROJECT WORK (21XXP75): The objective of the Project work is

- (i) To encourage independent learning and the innovative attitude of the students.
- (ii) To develop interactive attitude, communication skills, organization, time management, and presentation skills.
- (iii) To impart flexibility and adaptability.
- (iv) To inspire team working.
- (v) To expand intellectual capacity, credibility, judgment and intuition.
- (vi) To adhere to punctuality, setting and meeting deadlines.
- (vii) To install responsibilities to oneself and others.
- (viii)To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve in group discussion to present and exchange ideas.

CIE procedure for Project Work:

(1) 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, shall be based on the evaluation of the project work 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.