VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI.

Scheme of Teaching and Examinations and Syllabus

Bachelor of Computer and Applications (BCA)

(Effective from the Academic year 2024-25)

I SEMESTER

Sl No	Course	Course Code	Course Title	Teaching Hours per Week			Examination				Credits
				Theory	SDA/Tutorial	Practical	Duration (Hrs)	CIE Marks	SEE Marks	Total Marks	
				L	SDA/T	P					
1	AEC	BCA151A	Balike Kannada (MCQ)	02	-	--	01	50	50	100	2
		BCA151B	Samskrutika Kannada (MCQ)								
2	AEC	BCA152	Professional Communication Skills	02	-	--	03	50	50	100	2
3	PCC	BCA103	Problem-solving using C Programming(K/E)	03	--	--	03	50	50	100	3
4	PCC	BCA104	Computer Essentials (K/E)	03	--	--	03	50	50	100	3
5	PCC	BCA105A	Fundamentals of Mathematics(A) (K/E)	03	--	--	03	50	50	100	3
		BCA105B	Fundamentals of Accountancy(B) (K/E)								
6	AEC	BCA156	Indian Knowledge System (K/E)(MCQ)	02	-	--	01	50	50	100	2
7	PCCL	BCAL107	Programming in C Lab	01		02	03	50	50	100	2
8	PCCL	BCAL108	Essentials of Computer Lab	01		02	03	50	50	100	2
9	VAC	BCA109	Environmental studies (K/E) (MCQ)	00	02	-	01	50	50	100	1
			TOTAL	**17**	**02**	**04**	**27**	**450**	**450**	**900**	**20**

AEC-Ability Enhancement Courses, **PCC** – Professional Core Courses, **PCCL** – Professional Core Course Laboratory, **VAC** – Value Added Courses. **BCA**105A- Fundamentals of Mathematics- This is for students other than those in the science stream at 10+2 level. BCA105B- for Science Stream students. **SDA**- Skill Development Activities.
BCA151A- Balike Kannada(for non-Karnataka students) BCA151B- Samskrutika Kannada- (For Karnataka Students)
At the beginning of the semester 21 days of the Induction Program o 11 days in the beginning of the 1st semester and 10 days in the beginning of the 2nd semester

Sl. No	Course	Course Code	Course Title	Theory	SDA/ Tutorial	Practical	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
				L	SDA/T	P					
1	AEC	BCA251	Indian / Foreign Language (MCQ for Particular Language – SEE)	02	-	--	01	50	50	100	2
2	AEC	BCA252	Introduction To Scripting Languages (MCQ)	02	-	--	01	50	50	100	2
3	PCC	BCA203	Discrete Mathematical Structure	03	--	--	03	50	50	100	3
4	PCC	BCA204	Fundamentals of Data Structure (K/E)	03	--	--	03	50	50	100	3
5	PCC	BCA205	Unix and Shell Scripting	03	--	--	03	50	50	100	3
6	SEC	BCA286	Fundamentals of Fintech	02	-	--	03	50	50	100	2
7	PCCL	BCAL207	Unix and Shell Scripting Laboratory	01		02	03	50	50	100	2
8	PCCL	BCAL208	Data Structure Using C Laboratory	01		02	03	50	50	100	2
9	VAC	BCA209	Constitution of India(K/E)(MCQ)	00	02	--	01	50	50	100	1
			TOTAL	**17**	**02**	**04**	**28**	**450**	**450**	**900**	**20**

II   SEMESTER

AEC-Ability Enhancement Courses, **PCC** – Professional Core Courses, **PCCL** – Professional Core Course Laboratory, **VAC** – Value Added Courses

BCA105A- Fundamentals of Mathematics- This is for students other than those in the science stream at 10+2 level. BCA105B- for Science Stream students.

SDA- Skill Development Activities

At the beginning of the semester 21 days of the Induction Program o 11 days in the beginning of the 1st semester and 10 days in the beginning of the 2nd semester