B. V. V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE
DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

SCHEME OF TEACHING

2024-25 Batch

B.E. (I SEMESTER)

Sl. No	Course and Course Code		Course Title	Credits	Hours / Week			Examination Marks		
					Lecture	Tutorial	Practical	CIE	SEE	Total
1	ASC(IC)	BMAE101C	Mathematics-I for EEE Stream	04	3	0	2	50	50	100
2	ASC(IC)	BPHE102C	Applied Physics for EEE Stream	04	3	0	2	50	50	100
3	ESC	BECA103C	Basic Electronics	03	3	0	0	50	50	100
4	ESC-I	BXXX104N	ESC-I	03	2	0	2	50	50	100
5	ETC-I	BXXX105B	ETC-I	03	3	0	0	50	50	100
6	AEC	BHSA106C	Communicative English	01	1	0	0	50	50	100
7	HSMC	BHSA107C	Indian Constitution	01	1	0	0	50	50	100
8	AEC/SDC	BHSA108C	Scientific Foundations of Health	01	1	0	0	50	50	100
			Total	**20**	**17**	**0**	**6**	**400**	**400**	**800**

Engineering Science Courses-I				
Code	**Title**	**L**	**T**	**P**
BCVA104N	Introduction to Civil Engineering	3	0	0
BCSA104N	Introduction to C Programming	2	0	2
BEEA104N	Introduction to Electrical Engineering	3	0	0
BECA104N	Introduction to Electronics and Communication	3	0	0
BMEA104N	Introduction to Mechanical Engineering	3	0	0

Emerging Technology Courses-I				
Code	**Title**	**L**	**T**	**P**
BAIA105B	Introduction to Cyber Security	3	0	0
BCVA105B	Green Building	3	0	0
BCVB105B	Waste Management	3	0	0
BECA105B	Introduction to Nanotechnology	3	0	0
BECB105B	Introduction to Embedded Systems	3	0	0
BEEA105B	Renewable Energy Sources	3	0	0
BISA105B	Introduction to Internet of Things (IOT)	3	0	0
BMEA105B	Smart Materials and Systems	3	0	0
BMEB105B	Introduction to Sustainable Engineering	3	0	0
BUEA105B	Emerging Applications of Biosensors	3	0	0

B. V. V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE
DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

SCHEME OF TEACHING

2024-25 Batch

B.E. (II SEMESTER)

Sl. No	Course and Course Code		Course Title	Credits	Hours / Week			Examination Marks		
					Lecture	Tutorial	Practical	CIE	SEE	Total
1	ASC(IC)	BMAE201C	Mathematics-II for EEE Stream	04	3	0	2	50	50	100
2	ASC(IC)	BCHE202C	Chemistry for EEE Stream	04	3	0	2	50	50	100
3	ESC	BMEB203C	Computer-Aided Engineering Drawing	03	2	0	2	50	50	100
4	ESC-II	BXXX204N	ESC-II	03	3	0	0	50	50	100
5	PLC-II	BXXX205D	PLC-II	03	2	0	2	50	50	100
6	AEC	BHSB206C	Professional Writing Skills in English	01	1	0	0	50	50	100
7	HSMC	BHSC207C/ BHSC207C	Samsrutika Kannada/Balake Kannada	01	1	0	0	50	50	100
8	HSMC	BHSB208C	Innovation and Design Thinking	01	1	0	0	50	50	100
			Total	**20**	**16**	**0**	**8**	**400**	**400**	**800**

Engineering Science Courses-II		L	T	P
Code	**Title**	**L**	**T**	**P**
BCVA204N	Introduction to Civil Engineering	3	0	0
BCSA204N	Introduction to C Programming	2	0	2
BEEA204N	Introduction to Electrical Engineering	3	0	0
BECA204N	Introduction to Electronics and Communication	3	0	0
BMEA204N	Introduction to Mechanical Engineering	3	0	0

Programming Language Courses-II		L	T	P
Code	**Title**	**L**	**T**	**P**
BCSA205D	Introduction to Web programming	2	0	2
BCSB205D	Introduction to Python programming	2	0	2
BCSC205D	Introduction to JAVA programming	2	0	2
BCSD205D	Introduction to C++ programming	2	0	2

B. V. V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE
DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

SCHEME OF TEACHING

2024-25 Batch

B.E. (III SEMESTER)

Sl. No	Course and Course Code		Course Title	Credits	Hours / Week			Examination Marks		
					Lecture	Tutorial	Practical	CIE	SEE	Total
1	BSC		Mathematics for Electronics and Computer Engineering	3	3	0	0	50	50	100
2	IPCC		Data Structures with C	4	3	0	2	50	50	100
3	PCC		Analog and Digital Electronics	4	4	0	0	50	50	100
4	PCC		Microcontroller and Computer Organization	4	4	0	0	50	50	100
5	PCC		Object Oriented Programming with C++	3	2	2	0	50	50	100
6	PCCL		Analog and Digital Laboratory	1	0	0	2	50	50	100
7	PCCL		Microcontroller Laboratory	1	0	0	2	50	50	100
			Total	**20**	**16**	**2**	**06**	**350**	**350**	**700**

B. V. V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE
DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

SCHEME OF TEACHING

2024-25 Batch

B.E. (IVSEMESTER)

Sl. No	Course and Course Code		Course Title	Credits	Hours / Week			Examination Marks		
					Lecture	Tutorial	Practical	CIE	SEE	Total
1	PCC		Discrete Mathematics and Graph Theory	3	3	0	0	50	50	100
2	PCC		Embedded System Design using ARM	3	3	0	0	50	50	100
3	PCC		Design and Analysis of Algorithms	3	3	0	0	50	50	100
4	PCC		Linear ICs and Applications	3	3	0	0	50	50	100
5	PCCL		Algorithms Laboratory	1.5	0	0	3	50	50	100
6	PCCL		ARM Processor Laboratory	1.5	0	0	3	50	50	100
7	PCCL		Electronic Hardware Project using Linear ICs	1	0	0	2	50	50	100
8	BSC		Biology For Engineers	3	3	0	0	50	50	100
9	HSMC		Universal Human Values	1	1	0	0	50	50	100
			Total	**20**	**16**	**0**	**08**	**450**	**450**	**900**

B. V. V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE
DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

SCHEME OF TEACHING

2024-25 Batch

B.E. (V SEMESTER)

Sl. No	Course and Course Code		Course Title	Credits	Hours / Week			Examination Marks		
					Lecture	Tutorial	Practical	CIE	SEE	Total
1	IPCC		JAVA Programming	4	3	0	2	50	50	100
2	PCC		Digital System Design using Verilog	4	4	0	0	50	50	100
3	PCCL		Verilog Lab	1	0	0	2	50	50	100
4	PEC		Professional Elective Course	3	3	0	0	50	50	100
5	OEC		Open Elective Course	3	3	0	0	50	50	100
6	PROJ		Mini Project	2	0	0	4	50	50	100
7	AEC		Soft Skill	2	2	0	0	50	50	100
8	HSMC		Environmental Studies	1	1	0	0	50	50	100
			Total	**20**	**16**	**0**	**08**	**400**	**400**	**800**

Professional Elective Course			
	IoT and Applications		Software Engineering and Project Management
	Operating Systems		Control Systems

Open Elective Course	
	Electrical Transducers and Instrumentation

B. V. V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE
DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

SCHEME OF TEACHING

2024-25 Batch

B.E. (VI SEMESTER)

Sl. No	Course and Course Code		Course Title	Credits	Hours / Week			Examination Marks		
					Lecture	Tutorial	Practical	CIE	SEE	Total
1	IPCC		Computer Networks	4	3	0	2	50	50	100
2	PCC		VLSI Design	4	4	0	0	50	50	100
3	PCC		Data Base Management Systems	4	2	0	2	50	50	100
4	PEC		Professional Elective Course	3	3	0	0	50	50	100
5	OEC		Open Elective Course	3	3	0	0	50	50	100
6	PCCL		VLSI Laboratory	1	0	0	2	50	50	100
7	AEC		Indian Knowledge System	1	1	0	0	50	50	100
			Total	**20**	**16**	**0**	**06**	**350**	**350**	**700**

Professional Elective Course	
UI/UX Design	Unix Shell Programming
Web Technologies	Cyber Security

Open Elective Course
Virtual Instrumentation

B. V. V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE
DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

SCHEME OF TEACHING

2024-25 Batch

B.E. (VII SEMESTER)

Sl. No	Course and Course Code		Course Title	Credits	Hours / Week			Examination Marks		
					Lecture	Tutorial	Practical	CIE	SEE	Total
1	HSMC		Research Methodology and IPR	3	3	0	0	50	50	100
2	IPCC		AI and ML	3	2	0	2	50	50	100
3	IPCC		Computer Graphics	3	2	0	2	50	50	100
4	PEC		Professional Elective Course 1	3	3	0	0	50	50	100
5	PEC		Professional Elective Course 2	3	3	0	0	50	50	100
6	PROJ		Major Project	9	0	0	12	50	50	100
			Total	**24**	**13**	**0**	**16**	**300**	**300**	**600**

Professional Elective Course 1			
	System Verilog		Cloud Computing
	Block Chain Technology		Big Data Analysis

Professional Elective Course 2			
	Data Analytics using R		Cryptography and Network Security
	Robotics and Automation		Compiler Design

B. V. V. Sangha's
BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE
DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

SCHEME OF TEACHING

2024-25 Batch

B.E. (VIIISEMESTER)

Sl. No	Course and Course Code		Course Title	Credits	Hours / Week			Examination Marks		
					Lecture	Tutorial	Practical	CIE	SEE	Total
1	AEC		Ability Enhancement Course (Online Courses)	3	3	0	0	50	50	100
2	OEC		Open Elective Course (Online Courses)	3	3	0	0	50	50	100
3	INT		Internship (Industry/Research) (12 - 14 weeks)	10	0	0	10	50	50	100
			Total	**16**	**6**	**0**	**10**	**150**	**150**	**300**