



B.V.V Sangha's
BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS), BAGALKOT
DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Scheme of Teaching and Evaluation (NEP 1st Batch-160 Credits)

I Semester

(Applicable students admitted during AY 2021-22 to 1st semester)

Sl. No.	Subject Code	Subject	Credits	Hours/Week			Examination Marks		
				Lecture	Tutorial	Practical	CIE	SEE	Total
1	21UMA101C	Engineering Mathematics-I	3	3	0	0	50	50	100
2	21UPH102C	Engineering Physics	3	3	0	0	50	50	100
3	21UCS103C	Principles of Programming with C	3	3	0	0	50	50	100
4	21UEC104C	Basic Electronics	3	2	2	0	50	50	100
5	21UEE105C	Basic Electrical Engineering	3	3	0	0	50	50	100
6	21UHS106C	Communicative English	2	2	0	0	50	50	100
7	21UHS107C	Scientific Foundations of Health	1	1	0	0	50	50	100
8	21UPH108L	Engineering Physics Laboratory	1	0	0	3	50	50	100
9	21UCS109L	Programming Practice Using C	1	0	0	2	50	50	100
		Total	20	17	2	5	450	450	900

II Semester

(Applicable students admitted during AY 2021-22 to 2nd semester)

Sl. No.	Subject Code	Subject	Credits	Hours/Week			Examination Marks		
				Lecture	Tutorial	Practical	CIE	SEE	Total
1	21UMA201C	Engineering Mathematics-II	3	3	0	0	50	50	100
2	21UCH210C	Engineering Chemistry	3	3	0	0	50	50	100
3	21UCV211C	Engineering Mechanics	3	3	0	0	50	50	100
4	21UME212C	Elements of Mechanical Engineering	3	2	2	0	50	50	100
5	21UME213L	Computer Aided Engineering Drawing	3	2	0	2	50	50	100
6	21UHS206C	Professional Writing Skills in English	2	2	0	0	50	50	100
7	21UHS215C	Innovation and Design Thinking	2	1	0	2	50	50	100
8	21UCH214L	Engineering Chemistry Laboratory	1	0	0	2	50	50	100
		Total	20	16	2	6	400	400	800

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III Semester

(Applicable students admitted during AY 2021-22 to 1st semester and Lateral Entry AY 2022-23 to 3rd Semester)

Sl. No.	Subject Code	Subject	Credits	Hours/Week			Examination Marks		
				Lecture	Tutorial	Practical	CIE	SEE	Total
1	21UMA301C	Numerical Techniques & Integral Transforms	3	3	0	0	50	50	100
2	21UIS304C	Logic Design	3	3	0	0	50	50	100
3	21UIS302C	Computer Organization	3	3	0	0	50	50	100
4	21UIS303C	Data Structures	4	3	2	0	50	50	100
5	21UIS380L	Logic Design Laboratory	1.5	0	0	3	50	50	100
6	21UIS381L	Data Structures Laboratory	1.5	0	0	3	50	50	100
7	21UIS382L	Advanced C Laboratory	1	0	0	2	50	50	100
8	21UMA300M	Bridge Course Mathematics-I *	--	2	2	--	50	50	100
9	21UHS321C	Constitution of India	1	1	0	0	50	50	100
10	21UHS324C	Universal Human Values-II	1	1	0	0			
		Total	19	16	4	8	500	500	1000

IV Semester

(Applicable students admitted during AY 2021-22 to 1st semester and Lateral Entry AY 2022-23 to 4th Semester)

Sl. No.	Subject Code	Subject	Credits	Hours/Week			Examination Marks		
				Lecture	Tutorial	Practical	CIE	SEE	Total
1	21UMA401C	Statistics and Probability Distributions	3	3	0	0	50	50	100
2	21UIS413C	Analysis and Design of Algorithms	3	3	0	0	50	50	100
3	21UIS424C	Object Oriented Programming with Java	4	3	2	0	50	50	100
4	21UIS409C	Microcontroller and Embedded Systems	3	3	0	0	50	50	100
5	21UIS415C	Operating Systems	3	3	0	0	50	50	100
6	21UIS431L	Analysis of Algorithms using JAVA Laboratory	1	0	0	2	50	50	100
7	21UIS420L	Microcontroller and Embedded Systems Laboratory	1	0	0	2	50	50	100
8	21UIS412L	System Administration Laboratory	1	0	--	2	50	50	100
9	21UIS413I	Internship-I (3 weeks)	2	--	--	--	50	50	100
10	21UHS422C/ 21UHS423C	Samskruthika Kannada [#] / Balake Kannada ^{\$}	1	1	--	--	50	50	100
11	21UMA430M	Bridge Course Mathematics-II*	--	2	2	0	50	50	100
		Total	22	18	4	6	550	550	1100

Note: Internship-I student can undergo this internship during vacation between 1st and 2nd year

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V Semester

(Applicable students admitted during AY 2021-22 to 1st semester and Lateral Entry AY 2022-23 to 3rd semester, 2023-24 5th Semesters)

Sl. No.	Subject Code	Subject	Credits	Hours/Week			Examination Marks		
				Lecture	Tutorial	Practical	CIE	SEE	Total
1	21UIS519C	Discrete Mathematical Structures	3	3	0	0	50	50	100
2	21UIS513C	Web Programming	3	3	0	0	50	50	100
3	21UIS503C	Database Management Systems	3	3	0	0	50	50	100
4	21UIS047E	Data Science using Python Professional Elective Course- I	3	3	0	0	50	50	100
5	21UIS532N	Java Programming (Professional Open Elective Course- I)	3	3	0	0	50	50	100
6	21UIS511L	Database Application Laboratory	1	0	0	2	50	50	100
7	21UIS517I	Internship-II (4 weeks)	3	0	0	4	50	50	100
8	21UBT521C	Environmental Studies	1	0	1	0	50	50	100
9	21UHS521	Qualitative Aptitude and Professional Soft Skills	2	2	0	0	50	50	100
Total			22	20	1	6	450	450	900

Note: Internship-I student can undergo this internship during vacation between 2nd and 3rd year

VI Semester

(Applicable students admitted during AY 2021-22 to 1st semester and Lateral Entry AY 2022-23 to 3rd semester, 2023-24 6th Semesters)

Sl. No.	Subject Code	Subject	Credits	Hours/Week			Examination Marks		
				Lecture	Tutorial	Practical	CIE	SEE	Total
1	21UISXXXXC	Theoretical Foundation of Computer Science	3	3	0	0	50	50	100
2	21UISXXXXC	Software Engineering	3	3	0	0	50	50	100
3	21UISXXXXC	Computer Network	3	3	0	0	50	50	100
4	21UISXXXXE	Professional Elective Course- II	3	3	0	0	50	50	100
5	21UISXXXXN	Database Management System (Professional Open Elective Course- II)	3	3	0	0	50	50	100
6	21UISXXXXN	Cyber Security (Professional Open Elective Course- III)	3	3	0	0	50	50	100
7	21UISXXXXL	Computer Network Laboratory	1	0	1	3	50	50	100
8	21UBTXXXP	Mini Project	2	0	0	4	50	50	100
Total			21	18	1	7	400	400	800

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VII Semester

(Applicable students admitted during AY 2021-22 to 1st semester and Lateral Entry AY 2022-23 to 3rd semester, 2024-25 7th Semesters)

Sl. No.	Subject Code	Subject	Credits	Hours/Week			Examination Marks		
				Lecture	Tutorial	Practical	CIE	SEE	Total
1	21UISXXXC	Object Oriented Modeling and Design	3	3	0	2	50	50	100
2	21UISXXXC	Software Project Management	3	3	0	0	50	50	100
3	21UISXXXE	Professional Elective Course- III	3	3	0	0	50	50	100
4	21UISXXXE	Professional Elective Course- IV	3	3	0	0	50	50	100
5	21UISXXXP	Project Work	8	0	0	16	50	50	100
Total			20	12	0	18	250	550	500

VIII Semester

(Applicable students admitted during AY 2021-22 to 1st semester and Lateral Entry AY 2022-23 to 3rd semester, 2024-25 8th Semesters)

Sl. No.	Subject Code	Subject	Credits	Hours/Week			Examination Marks		
				Lecture	Tutorial	Practical	CIE	SEE	Total
1	21UISXXX	MOOC's	3	0	0	0	50	50	100
2	21UISXXX	Intellectual Property Rights	2	2	0	0	50	50	100
3	21UISXXXS	Technical Seminar	1	0	0	2	50	50	100
4	21UISXXX	Research/Industrial Internship-III (24 Weeks)	10	0	0	20	50	50	100
Total			16	2	0	22	200	200	400

Note:

- i. MOOC's – student can complete at any time during the course. The credits will be earned during 8th semester (4weeks =1 credit, 8week=2 credits, 12 weeks=3 credits)
- ii. Research/Industrial Internship-III- student can complete this as research assistant under a professor working in a recognized research center/ in a research institute/ in any Industry.