BVVS
BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE

Department of Information Science and Engineering

UG SCHEME OF TEACHING AND EXAMINATION
(Admitted from2022-2023 onwards)
Applicable to students admitted in AY 22-23 to 1ˢᵗsem and through lateral entry in AY 23-24 to 3ʳᵈsem (2ⁿᵈ NEP Batch)

Presented By
Dr. S. P Bagarashetti
Professor and Head

Department of Information Science and Engineering
Creditsplit-upforUndergraduateprogram

Break-upofcreditsforB.E(CommontoallBranches)
Forthe Studentsadmittedfrom2022-2023onwards,basedonNEP (2nd NEP Batch)

Applicable to students admitted in AY 22-23 to 1stsem and through lateral entry in AY 23-24 to 3rdsem (2nd NEP Batch)

Sem.	BSC	ESC	HSSM	AEC	PCC	PEC	OEC	Proj.	Int.	Total
1.	08	09	02	1						**20**
2.	08	09	02	1						**20**
3.	03			3(Dep)	14					**20**
4.	03		01		16					**20**
5.			01	2(ss)	09	03	03	02		**20**
6.					14	03	03			**20**
7.			03		03	06		12		**24**
8.				3(MOOCS)			3(MOOCS)		10	**16**
Tot.	**22**	**18**	**09**	**10**	**56**	**12**	**09**	**14**	**10**	**160**

Proposed Curriculum Framework for BEC (Based on revised Guidelines from VTU
(For the Students admitted from 2022-2023 onwards)

Applicable to students admitted in AY 22-23 to 1stsem and through lateral entry in AY 23-24 to 3rdsem (2nd NEP Batch)

S.N.	Category	VTU New (old)	BEC (old)	BEC (New)
1.	HSMC: HSS (2 English, 1 Kannada, 1 UHV, 1 Constitution, 1 EV), 3 HRM (Offered by Dept) = 9 AEC (1 Scientific foundations of Health, 1 Innovation and design Thinking, 2 SS, 3 MOOCS, 3 Dept. specific) = 10	16 (10)	10	19
2.	BSC: Basic Science Courses (Physics, Chemistry and Mathematics)	22 (23)	23	22
3.	ESC/ETC: Engineering Science Courses (Basic Elect/Electronics/Computer/Mechanics/Workshop/Drawing etc.)	24 (20)	19	18
4.	PCC: Professional Core Courses	59 (46)	49	56
5.	PEC: Professional Elective Courses relevant to the branch with at least one course either fully or partially supported by industry	12 (09)	12	12
6.	OEC: Open Electives Courses/ Subjects from other technical/Arts/Commerce (3 MOOCS + 6)	12 (04)	9 + 11 = 20	09
7.	Mini (2) and Major projects (12)/Industrial Internships (10)	15 (33)	26	24
8.	Mandatory Course: PE, Yoga, NSS, Bridge course Maths 1 and 2 (lateral Entry)	00 (04)	01	00
	Total	**160**	**160**	**160**

Department of Information Science and Engineering
B. E. I semester Scheme of Teaching and Examinations

(Effectivefrom the academicyear2022-23)

Applicable to students admitted in AY 22-23 to 1stsem and through lateral entry in AY 23-24 to 3rdsem (2nd NEP Batch)

Department of Information Science and Engineering

B. E. II semester SchemeofTeachingand Examinations

(Effective from the academic year 2022-23)

Sl. No.	Category	Code	Title	TD	Credits	Teaching Hours/Week			Examination			
						TheoryLecture (L)	Tutorial (T)	Practical/Drawing (P)	Duration in hours	CIE Marks	SEE Marks	Total Marks
1	BSC(IC)	22UMA103C	Mathematics forComputer Sciences - I	Maths	4	3	0	2	3	50	50	100
2	BSC(IC)	22UCH111C	Chemistry forComputer Sciences	Chemistry	4	3	0	2	3	50	50	100
3	ESC	22UCS119C	Principles of Programming using C	Computer Science	3	2	0	2	3	50	50	100
4	ESC-I	22UXXXXXE	EngineeringScienceCourse-I	Respective Engg. Dept	3	3	0	0	3	50	50	100
5	ETC-I	22USXXXXE	EmergingTechnologyCourse-I	Any Engg. Dept	3	2	0	2	3	50	50	100
6	HSSM	22UHS124C	Communicative English	Humanities	1	1	0	0	1	50	50	100
7	HSSM	22UHS126C 22UHS127C	Kannada – SK Kannada - BK	Humanities	1	1	0	0	1	50	50	100
8	AEC	22UHS129C	Innovation and Design Thinking	Any Dept	1	1	0	0	1	50	50	100
			Total		**20**	**16**	**0**	**08**	**18**	**400**	**400**	**800**

SDA-Skill Development Activities, **TD/PSB**- Teaching Department / Paper Setting Board, **ASC**-Applied Science Course, **ESC**- Engineering Science Courses, **ETC**-Emerging Technology Course, **AEC**- Ability Enhancement Course, **HSMS**-Humanity and Social Science and management Course, **SDC**- Skill Development Course,**CIE**–Continuous InternalEvaluation,**SEE**-SemesterEnd Examination,**IC**–IntegratedCourse(TheoryCourseIntegratedwithPracticalCourse)

Sem	BSC	ESC	HSSM	AEC	PCC	PEC	OEC	Proj.	Int.	Total
1	08	09	02	1						20
2	08	09	02	1						20

IISemester(CSEStream)   **(PhysicsGroup)**

Department of Information Science and Engineering
3ʳᵈ Semester

Sl. No.	Course				TD	Credits	Teaching Hours/Week			Examination			
	Category	Code	Title				Theory Lecture (L)	Tutorial (T)	Practical/Drawing (P)	Duration in hours	CIE Marks	SEE Marks	Total Marks
1	BSC(IC)	22UMA203C	Mathematics for Computer Sciences - II		Maths	4	3	0	2	3	50	50	100
2	BSC(IC)	22UPH207C	Physics for Computer Sciences		Physics	4	3	0	2	3	50	50	100
3	ESC	22UME223C	CAED		Civil / Mechanical	3	2	0	2	3	50	50	100
4	ESC-I	22UXXXXE	Engineering Science Course-I		Respective Engg. Dept	3	3	0	0	3	50	50	100
5	PLC-I	22USXXXXE	Programming Language Course-I		Any Engg. Dept	3	2	0	2	3	50	50	100
6	HSSM	22UHS224C	Professional writing skills in English		Humanities	1	1	0	0	1	50	50	100
7	HSSM	22UHS225C	Indian Constitution		Humanities	1	1	0	0	1	50	50	100
8	AEC	22UHS228C	Scientific Foundations of Health		Any Dept	1	1	0	0	1	50	50	100
					Total	20	16	0	08	18	400	400	800

SDA-Skill Development Activities, **TD/PSB**- Teaching Department / Paper Setting Board, **ASC**-Applied Science Course, **ESC**- Engineering Science Courses, **ETC**-Emerging Technology Course, **AEC**- Ability Enhancement Course, **HSMS**-Humanity and Social Science and management Course, **SDC**- Skill Development Course,**CIE**–Continuous InternalEvaluation,**SEE**-SemesterEnd Examination,**IC**–IntegratedCourse(TheoryCourseIntegratedwithPracticalCourse)

Sl.No.	Category	Code	Title	Credits	Theory Lecture L	Tutorial T	Practical/Drawing P	Duration in hours	CIE Marks	SEE Marks	Total Marks
1	BSC	22UMA301C	Numerical Techniques and Integral Transforms	3	3	0	0	3	50	50	100
2	PCC	22UIS305C	Advanced Web Programming (Integrated)	4	3	0	2	5	50	50	100
3	PCC	22UIS304C	Logic Design(integrated)	4	3	0	2	5	50	50	100
4	PCC	22UIS314C	Computer Organization	4	4	0	0	4	50	50	100
5	PCC	22UIS303C	Data Structures	4	3	2	0	5	50	50	100
6	PCC	22UIS381L	Data Structures Lab	1	0	0	2	2	50	50	100
7	BSC	22UMA300M	Bridge Course Mathematics - I	0	2	0	2	4	50	50	100
8	MC	UHS002M	National Service Scheme	0	0	0	2	2	100	0	100
		UHS003M	Physical Education(Sports and Athletics)								
		UHS001M	Yoga								
9		AAP	AICTE Activity Points								
			Total	20	17	2	10	29	400	400	800

Sem.	BSC	ESC	HSSM	AEC	PCC	PEC	OEC	Proj.	Int.	Total
3	03				17					20

Department of Information Science and Engineering
4th Semester

Applicable to students admitted in AY 22-23 to 1st sem and through lateral entry in AY 23-24 to 3rd sem (2nd NEP Batch)

Sl.No.	Course				Credits	Teaching Hours/Week				Examination		
	Category	Code	Title			Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks
						L	T	P				
1	BSC	22UMA401C	Engineering Mathematics - IV		3	3	0	0	3	50	50	100
2	HSSM	**22UISXXXC**	Universal Human Values - II		**1**	1	0	0	1	50	50	100
3	PCC	**22UIS403C**	Analysis and Design of Algorithms(Integrated)		**4**	3	0	2	5	50	50	100
4	PCC	**22UIS412C**	Object Oriented Modelling and Design (Integrated)		**4**	3	0	2	5	50	50	100
5	PCC	**22UIS417C**	Database Management Systems		**4**	3	2	0	5	50	50	100
6	PCC	**22UIS413C**	Software Engineering		**3**	3	0	0	3	50	50	100
7	PCC	**22UIS421L**	Database Application Laboratory		**1**	0	0	2	2	50	50	100
8	BSC	**22UMA400M**	Bridge course Mathematics - II		**0**	2	0	0	2	50	50	100
9	MC	UHS002M	National Service Scheme		**0**	0	0	2	2	0	0	0
		UHS003M	Physical Education(Sports and Athletics)									
		UHS001M	Yoga									
10		AAP	AICTE Activity Points									
			Total		20	18	2	6	26	400	400	800

Sem.	BSC	ESC	HSSM	AEC	PCC	PEC	OEC	Proj.	Int.	Total
04	03		1		16					20

Department of Information Science and Engineering
5th Semester

Sl.No.	Category	Code	Title	Credits	L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks
1	HSSM		Environmental Studies	1	1	0	0	1	50	50	100
2	AEC		Soft Skills	2	2	0	0	2	50	50	100
3	PCC	22UIS504C	Advanced Java Programming	3	2	0	2	4	50	50	100
4	PCC	22UIS509C	Operating Systems	3	3	0	0	3	50	50	100
5	PCC	22UBTXXXC	Biology for Engineers	2	2	0	0	2	50	50	100
6	PEC	22UISXXXE	Professional Elective Course – I	3	3	0	0	3	50	50	100
7	OEC	22UISXXXN	Open Elective Course - I	3	3	0	0	3	50	50	100
8	PCC	22UIS521L	Advanced Java Programming lab	1							
9	PROJ	22UIS531P	Miniproject	2	0	0	2	2	50	50	100
10	MC	UHS002M	National Service Scheme	0	0	0	2	2	0	0	0
		UHS003M	Physical Education(Sports and Athletics)								
		UHS001M	Yoga								
11		AAP	AICTE Activity Points								
			Total	**20**	**16**	**0**	**6**	**22**	**400**	**400**	**800**

Sem.	BSC	ESC	HSSM	AEC	PCC	PEC	OEC	Proj.	Int.	Total
5			01	2 (SS)	10	03	03	02		21

Department of Information Science and Engineering
6th Semester

Applicable to students admitted in AY 22-23 to 1st sem and through lateral entry in AY 23-24 to 3rd sem (2nd NEP Batch)

Sl.No.	Category	Code	Title	Credits	Theory Lecture (L)	Tutorial (T)	Practical/Drawing (P)	Duration in hours	CIE Marks	SEE Marks	Total Marks
1	PCC	22UIS613C	Computer Networks	3	2	0	2	5	50	50	100
2	PCC	22UIS617C	Discrete Mathematical Structures	3	3	0	0	3	50	50	100
3	AEC		Microcontroller and Embedded Systems (Integrated)	3	2	0	2	4	50	50	100
4	PCC	22UIS615C	Theory of Computations	3	3	0	0	3	50	50	100
5	AEC	22UHS600C	Indian Knowledge Systems	1	1	0	0	1	50	50	100
6	PEC	22UISXXXE	Professional Elective Course - II	3	3	0	0	3	50	50	100
7	OEC	22UISXXXN	Open Elective Course - II	3	3	0	0	3	50	50	100
8	PCC	22UIS612L	Computer Networks Lab	1	0	0	2	2	50	50	100
9	PROJ.	--	Pre-Project Work	0	0	0	0	0	0	0	0
10	MC	UHS002M	National Service Scheme	0	0	0	2	2	0	0	0
		UHS003M	Physical Education(Sports and Athletics)								
		UHS001M	Yoga								
11		AAP	AICTE Activity Points								
			Total	**20**	**18**	**0**	**4**	**22**	**350**	**350**	**700**

Note: Pre-Project Work – 1) Batch Formulation, 2) Project Allocation and Guide Allotment, 3) Problem Identification and Formulation, and 4) Literature Survey – Minimum 10 papers are to be surveyed.

Sem.	BSC	ESC	HSSM	AEC	PCC	PEC	OEC	Proj.	Int.	Total
6				03	10	03	03			19

Department of Information Science and Engineering

7th Semester

Sl.No.	Course				Credits	Teaching Hours/Week				Examination		
	Category	Code	Title			Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks
						L	T	P				
1	HSSM	22UIS706H	Management and Entrepreneurship		3	3	0	0	3	50	50	100
2	PCC	22UIS704C	Cyber Crime and Digital Forensic (Integrated)		3	2	0	2	4	50	50	100
3	PEC	22UISXXXE	Professional Elective Course– III		3	3	0	0	3	50	50	100
4	PEC	22UISXXXE	Professional Elective Course - IV		3	3	0	0	3	50	50	100
5	PROJ	22UIS717P	Project Work		12	0	0	12	12	50	50	100
				Total	24	10	0	18	28	250	250	500

Sem.	BSC	ESC	HSSM	AEC	PCC	PEC	OEC	Proj.	Int.	Total
7			03		03	06		12		24

Department of Information Science and Engineering

8th Semester

Sl.No.	Course			Credits	Teaching Hours/Week			Duration in hours	Examination		
	Category	Code	Title		Theory Lecture	Tutorial	Practical/Drawing		CIE Marks	SEE Marks	Total Marks
					L	T	P				
1	AEC	22UISXXXO	MOOCS	3	3	0	0	3	50	50	100
2	OEC	22UISXXXO	MOOCS	3	3	0	0	3	50	50	100
3	INT	22UIS808L	Internship	10	0	0	10	10	50	50	100
			Total	16	6	0	10	16	150	150	300

Sem.	BSC	ESC	HSSM	AEC	PCC	PEC	OEC	Proj.	Int.	Total
8				3 (MOOCS)			3 (MOOCS)		10	16