## Sharnbasva University, Kalaburagi

# Scheme for B.Tech., First Year Program from the Academic Year: 2023-24

All the B.Tech., branches offered by the University are grouped in to Four Streams (CES, MES, EES and CSS)

B.Tech., II Semester, Physics Group - (for streams MES & EES including Mech, Energy, EEE and ECE branches)

					Teacl	ning hours/week				Credits	3	
					T			D	CIE	SEE	Total	
Sl. No.	C ou rs e	Course Code	Course Title	Teaching Department/ Paper Setting Board	Theory/ Lecture	Practical/ Drawing	Activities	u ra	Marks	Mar ks	Marks	
	AS C	22MATM21	Mathematics for MES -		3		0	3+2	5	50		4
1	(IC	22MATE21	Mathematics for EES -II	Mathematics	3		0	3+2	50			4
2	AS	22PHYM22	Physics for MES	Physics	3		0	3	50			3
	С	22PHYE22	Physics for EES	1 Hysics	3		0		50			3
	ES	22EME23	Elements of Mechanical Engg (for Mech & Energy Engg. only)	Mech Engg	3 or 2 (for in	tegrated)	3 or	3+2	50		100	3
3	C	22BEE23	Basic Electrical Engineering (for EEE only)	EEE	3 or 2 (for in	tegrated)	rated) 3 or		50		100	3
		22BEL23	Basic Electronics (for ECE only)	ECE	3 or 2 (for in	tegrated)	rated) 3 or		50		100	3
4	ES C- OE	22ESC24X	Engineering Science Course-II	Respective Dept.	2		0	3 or 3+2	5	50		2
5	ET C- OE / PL C- OE	22ETC25X 22PLC25X	Emerging Technology Course-II/ Programming Language Course-II	Any Engg. Dept./ Any Dept.	3 or 2 (for in	tegrated)	rated) 3 or		50		100	3
6	AE C- OE	22AEC26X	Ability Enhancement Course-II	Any Dept.		urs tutorial /practice/activities or any			50	50		1
7	HS M C	22KANS27/2 2KANB27	Samskrutika Kannada/Balake Kannada	Kannada	other com	nbinations of all of them.		50		50		1

8	AS C- L	22PHYL28	Physics Lab	Physics	0	0	2	0		2	50	50	100	1	
9	ES C- L	22PPSL29	Programming for Problem Solving Lab	CSE/AI&ML/ AI&DS	0	0	2	0		2	50	50	100	1	
10	SD C - OE	22PROJ20	Project - II	A batch of 4 to 5 students (s one project (1 ho	ame branch or ur of theory/tut	differ orial	rent branches) with a guide or 2 hours of practice/activ	e, may ude ities)	ertake	1	or 2	50	100	1	
Total				500				500				20			
ASC (IC) -									!						
Applied															
Science					MEG. 1	Maalaa	unical En aimeanina Stucana (	M							
Course - (IC					MES:	viecna	nnical Engineering Stream (	IVI)							
- Integrated															
Course)	<u> </u>														
ESC -															
Engineering		EES: Electrical & Electronics Engineering Stream (E)													
Science		EES: Electrical & Electronics Engineering Stream (E)													
Course ESC-OE :	1														
Esc-OE: Engineering															
Science															
Course -							PROJ: Project								
Open															
Elective															
ETC-OE:															
Emerging															
Technology					SDC-OF: S	kill Da	evelopment Course - Open 1	Elective							
Course					DDC-OL. B	17	c, cropinent course - Open i	LICCUVC							
-Open															
Elective	<u> </u>														
PLC-OE : Programming															
Language															
Course -				H	SMC: Humani	ties, S	ocial Sciences and Manager	ment Cou	rse						
Open															
Elective															
AEC-OE:															
Ability															
Enhancement															
Course -															
Open															
Elective															

### Sharnbasva University, Kalaburagi

#### Scheme for B.Tech., First Year Program from the Academic Year: 2023-24

#### All the B.Tech., branches offered by the University are grouped in to Four Streams (CES, MES, EES and CSS)

#### B.Tech., II Semester, Physics Group - (for streams MES & EES including Mech, Energy, EEE and ECE branches)

	Course	e	Course Code	Teachi	ng Department/ Paper	r Setting Board		Teaching hours/wee	ek		Cre	dits	
					Theory/ Lecture	Tutorial	Practical/ Drawing	Activities		CIE	SEE	Total	
Sl. No.										Marks	Marks	Marks	
1	ASC (IC)	22MATM21	Mathematics for MES - II		3	2	0	3+2	50	50	100	4	i
		22MATE21	Mathematics for EES -II	Mathematics	3	2	0	3+2	50	50	100	4	ı
2	ASC	22PHYM22	Physics for MES		3	0	0	3	50	50	100	3	3
	•	22PHYE22	Physics for EES		3	0	0	3	50	50	100	3	3
3		22EME23	Elements of Mechanical Engg (for Mech & Energy Engg. only)	Physics Mech Engg	3 or 2 (for integrated)	0	3 or 3+2	50	Duration	100		3	
	ESC	22BEE23	Basic Electrical Engineering (for EEE only)	EEE	3 or 2 (for integrated)	0	3 or 3+2	50	50	100		3	
		22BEL23	Basic Electronics (for ECE only)	ECE	3 or 2 (for integrated)	0	3 or 3+2	50	50	100		3	
4	ESC-OE	22ESC24X	Engineering Science Course- II	Respective Dept.	2	0	0	3 or 3+2	50	50	100	2	2
5	ETC-OE / PLC-OE	22ETC25X 22PLC25X	Emerging Technology Course-II/ Programming Language Course-II	Any Engg. Dept./ Any Dept.	3 or 2 (for integrated)	0	3 or 3+2	50	50	100		3	
6	AEC-OE	22AEC26X	Ability Enhancement Course-II	Any Dept.	1 hour theory or 2 hours tutorial	1 or 2	50	50	100			1	
7	HSMC	22KANS27/22K ANB27	Samskrutika Kannada/Balake Kannada	Kannada	/practice/activiti es or any other combinations of all of them.	1 or 2	50	50	100			1	
8	ASC-L	22PHYL28	Physics Lab	Physics	0	0	2	0	2	50	50	100	1
9	ESC-L	22PPSL29	Programming for Problem Solving Lab	CSE/AI&ML/ AI&DS	0	0	2	0	2	50	50	100	1
10	SDC – OE	22PROJ20	Project - II	A batch of 4 to 5 students (same branch or different branches) with a guide, may udertake one project (1 hour of theory/tutorial or 2 hours of practice/activitie	1 or 2	50	50	100			1		

			s)										
Total					500					50	00	20	
ASC (IC) - Applied Science Course - (IC - Integrated Course)		MES: Mechanical Engineering Stream (M)											
ESC - Engineering Science Course		EES: Electrical & Electronics Engineering Stream (E)											
ESC-OE: Engineering Science Course - Open Elective		PROJ: Project											
ETC-OE: Emerging Technology Course -Open Elective		SDC-OE: Skill Development Course - Open Elective											
PLC-OE: Programming Language Course - Open Elective	HSMC: Humanities, Social Sciences and Management Course												
AEC-OE: Ability Enhancement Course - Open Elective													

					Sha	ırnbasva Uni	versity, Kalab	uragi					
				Scheme for	B.Tech., Fi	rst Year Prog	gram from the	Academic	Year: 2022-2	23			
			All the B.Tec	h., branches offe	red by the <b>U</b>	University ar	e grouped in t	o Four Str	eams (CES, I	MES, EES	and C	SS)	
	B.Tech., II Semester, Chemistry Group - (for streams CES & CSS including CIV, CSE, AI&ML, AI&DS branches)												
	C Teaching hours/week Credits												
		ou		Teaching						CII	E	SEE	
Sl. No.	Course	rs e C od e	Course Title	Department/ Paper Setting Board	Theory/ Lecture	Tutorial	Practical/ Drawing	Activit ies	Duration	Mar	ks	Marks	
1	ASC (IC)  22 Mathematics for Mathematics  M CES - II  AT				3		2 0		3+2	50 50		100	4

		C2 1												
		22 M AT S2 1	Mathematics for CSS – II		:	3	2	0		3+2	50	50	100	4
2	4.90	22 CH EC 22	Chemistry for CES	Cl. : .		3	0	0		3	50	50	100	3
2	ASC	22 CH ES 22	Chemistry for CSS	Chemistry		3	0	0		3	50	50	100	3
3	ESC	22 CE D2 3	CAED	Mech Engg		2 2	2	0	3	or 3+2	50	50	100	3
4	ESC-OE	22 ES C2 4X	Engineering Science Course-II	Respective Dept.	<u>:</u>	2	0	0	3	or 3+2	50	50	100	2
5	ETC-OE / PLC-OE	22 ET C2 5X / 22 PL C2 5X	Emerging Technology Course- II/ Programming Language Course-II	Any Engg. Dept./ Any Dept.	3	or 2 (for integrate	ed)	3 o r 3 + 2		50		50		3
6	AEC-OE	22 AE C2 6X	Ability Enhancement Course-II	Any Dept.	1 hour theor	y or 2 hours tuto other combination	ria	al /practice/activit	ties or any		50		100	1
7	HSMC	C2 4I C	Indian Constitution	Respective Dept	,	oiner comvinatioi	as	oj au oj inem.			50		100	1
8	ASC-L	22 CH EL 28	Chemistry Lab	Chemistry	0	0		2	0	2	50		50	1
9	ESC-L	22 EE CL 29	Electronics and Electrical Lab	ECE or EEE	0	0		2	0	2	50		50	1

10	SDC - OE	22 PR OJ 20	Project – II	A batch of 4 to 5 students (same branch or different branches) with a guide, may udertake one project (1 hour of theory/tutorial or 2 hours of practice/activities)	1 or 2	100	1
Total	500			500		1000	20
ASC (IC) -	200			200		1000	
Applied							
Science							
Course - (IC -				CES: Civil Engineering Stream (C)			
Integrated							
Course)							
ESC -							
Engineering							
Science				CSS: Computer Science & Engineering Stre	eam (S)		
Course							
ESC-OE :							
Esc-OE: Engineering							
Science							
Course -				CAED: Computer Aided Engineering De	sign		
Open							
Elective							
ETC-OE:							
Emerging							
Technology				SDC-OE: Skill Development Course - Open	Flactiva		
Course -Open				SDC-OE. Skill Development Course - Open	Elective		
Elective							
PLC-OE :							
Programming							
Language							
Course -				HSMC: Humanities, Social Sciences and Manage	ment Course		
Open							
Elective							
AEC-OE:							
Ability							
Enhancement							
Course -							
Open							
Elective							
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					-		
				Sharnbasva University, Kalaburagi			
				Scheme for B.Tech., First Year Program from the Academ			
			All the B.Tech	., branches offered by the University are grouped in to Four S	treams (CES, M	IES, EES and CSS)	
				ter, Physics Group - (for streams CES & CSS including Civil,	CSE, AI&ML a	· · · · · · · · · · · · · · · · · · ·	
Sl. No.	Course	Cour	se Course	Teaching Teaching Examinati		Credits	

		Code	Title	Departme nt/ Paper Setting Board	hours/wee	on							
	-				Theory/ Lecture	Tutorial	Practical/ Drawing	Activities		CIE	SEE	Total	
	1	ı		1				1		Marks	Marks	Marks	
1	ASC (IC)	22MATC11	Mathematics for CES - I		3	2	0	3+2	50	50	100	4	
		22MATS11	Mathematics for CSS - I	Maria di	3	2	0	3+2	50	50	100	4	ļ
2	ASC	22PHYC12	Physics for CES	Mathematics	3	0	0	3	50	50	100	3	i
	•	22PHYS12	Physics for CSS		3	0	0	3	50	50	100	3	i
3		22CIV13	Engineering Mechanics (for students of Civ Engg. only)	Physics Civil Engg	3 or 2 (for integrated)	0	3 or 3+2	50	Duration 50	100		3	
	ESC	22PPC13	Principles of Programing with C (for CSE/AI&ML /AI&DS only)	CSE/AI&ML / AI&DS	3 or 2 (for integrated)	0	3 or 3+2	50	50	100		3	
4	ESC-OE	22ESC14X	Engineering Science Course-I	Respective Dept.	2	0	0	3 or 3+2	50	50	100	2	;
5	ETC-OE / PLC-OE	22ETC15X 22PLC15X	Emerging Technology Course-I or Programming Language Course - I	Any Engg. Dept./ Any Dept.	3 or 2 (for integrated)	0	3 or 3+2	50	50	100		3	
6	AEC-OE	22AEC16X	Ability Enhancement Course-I	Any Dept.	1 hour theory or 2 hours	1 or 2	50	50	100			1	
7	HSMC	22KANS17/ 22KANB17	Samskrutika Kannada/Bal ake Kannada	Kannada	tutorial /practice/acti vities or any other combination s of all of them.	1 or 2	50	50	100			1	
8	ASC-L	22PHYL18	Physics Lab	Physics	0	0	2	0	2	50	50	100	1

9	ESC-L	22PPSL19	Programming for Problem Solving Lab	CSE/AI&ML / AI&DS	0	0	2	0	2	50	50	100	1
10	SDC - OE	22PROJ10	Project - I	A batch of 4 to 5 students (same branch or different branches) with a guide, may udertake one project (1 hour of theory/tutori al or 2 hours of practice/activ ities)	1 or 2	50	50	100			1		
Total	500	500	1000					2	0				
ASC (IC) - Applied Science Course - (IC - Integrated Course) ESC - Engineering Science Course ESC-OE: Engineering Science Course - Open Elective ETC-OE:	CES: Civil Engineering Stream (C)  CSE: Computer Science & Engineering Stream (S)  CAED: Computer Aided Engineering Design												
Emerging Technology Course -Open Elective	SDC-OE: Skill Development Course - Open Elective												
PLC-OE: Programming Language Course - Open Elective AEC-OE:	HSMC: Humanities, Social Sciences and Management Course												

Ability	
Enhancement	
Course -	
Open	
Elective	

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