

Sharnbasva University, Kalaburagi

Scheme for B.Tech., First Year Program from the Academic Year: 2022-23

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

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

Sl. No.	Course	Course Code	Course Title	Teaching Department/ Paper Setting Board	Teaching hours/week			Examination			Credits		
					Theory/ Lecture	Tutorial	Practical/ Drawing	Activiti es	Duration	CIE Marks		SEE Marks	Total Marks
1	ASC (IC)	22MATM11	Mathematics for MES - I	Mathematics	3		2	0	3+2	50	50	100	4
		22MATE11	Mathematics for EES - I		3		2	0	3+2	50	50	100	
2	ASC	22CHEM12	Chemistry for MES	Chemistry	3		0	0	3	50	50	100	3
		22CHEE12	Chemistry for EES		3		0	0	3	50	50	100	
3	ESC	22CED13	CAED	Mech Engg	2		2	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/	Emerging Technology Course-I or	Any Engg. Dept./ Any Dept.	3 or 2 (for integrated)	0	0	0	3 or 3+2	50	50	100	3
		22PLC15X	Programming Language Course - I										
6	AEC-OE	22AEC16X	Ability Enhancement Course-I	Any Dept.					1 or 2	50	50	100	1
7	HSMC	22HSM17	Indian Constitution	Respective Dept					1 or 2	50	50	100	1
8	ASC-L	22CHEL18	Chemistry Lab	Chemistry	0	0	2	0	2	50	50	100	1
9	ESC-L	22EECL19	Electronics and Electrical Lab	ECE or EEE	0	0	2	0	2	50	50	100	1
10	SDC - OE	22PRO110	Project - I	A batch of 4 to 5 students (some branch or different branches) with a guide, may undertake one project (1 hour of theory/tutorial or 2 hours of practice/activities)					1 or 2	50	50	100	1
Total										500	500	1000	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				CAED: Computer Aided Engineering Design									
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													

The following courses are elective under different categories, students can choose the courses based on their choice/interest.

ESC-OE : Engineering Science Course - Open Elective	
1	22ESCI41 Introduction to Civil Engineering
2	22ESCI42 Introduction to Electrical Engineering
3	22ESCI43 Introduction to Electronics Engineering
4	22ESCI44 Introduction to Mechanical Engineering
5	22ESCI45 Introduction to Energy Engineering
6	22ESCI46 Introduction to Computer Science & Engineering
7	22ESCI47 Introduction to AI & ML
8	22ESCI48 Introduction to AI & DS

The student has to select one course from ESC-OE Group mentioned above excluding the course of his/her branch.
For Example: Civil Engineering Students shall opt for any one of the courses from ESC-OE group except 22ESCI41 - Introduction to Civil Engineering.

ETC-OE: Emerging Technology Course -Open Elective		Teaching Faculty	Dept
1	22ETCI51 Cyber Security	Dr. Syeda Asra	CSE
2	22ETCI52 Introduction to Block Chain & Digital Currency	Dr. Laxmi Math	CSE
3	22ETCI53 Waste Management	Prof. Sharannama Patil	Civil
4	22ETCI54 Sustainable Technology	Prof. Sharnkumar Itagi	Civil
5	22ETCI55 Introduction to IOT	Dr. Savita Patil	ECE
6	22ETCI56 Introduction to Drone Technology	Dr. Sharanaganda N	ECE
7	22ETCI57 Electric Vehicles	Prof. Jagadish Patil	EEE
8	22ETCI58 Renewable Energy Sources	Prof. Shivakumar Rachoti	Mech

PLC-OE : Programming Language Course - Open Elective		Teaching Faculty	Dept
1	22PLCI51 Web Programming	Prof. Anand N. Patil	CSE
2	22PLCI52 Programming with JAVA	Prof. Gajendra	CSE
3	22PLCI53 Python programming	Prof. Veerendra Basreddy	CSE

AEC-OE: Ability Enhancement Course - Open Elective		Teaching Faculty	Dept
1	22AECI61 Communication Skills		English
2	22AECI62 Networking		CSE
3	22AECI63 Welding Technology		MECH
4	22AECI64 Electrical Wiring		EEE
5	22AECI65 Public Address System O & M		ECE
6	22AECI66 AutoCAD		CIV
7	22AECI67 NCC organisation and National Integration		NCC
8	22AECI68 Personality Development, Social Service.		NSS
9	22AECI69 Environmental Studies		CIV

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B.Tech., I Semester, Physics Group - (for streams CES & CSS including Civil, CSE, AI&ML and AI&DS branches)

Sl. No.	Course	Course Code	Course Title	Teaching Department/ Paper Setting Board	Teaching hours/week				Examination			Credits	
					Theory/ Lecture	Tutorial	Practical/ Drawing	Activities	Duration	CIE Marks	SEE Marks		Total Marks
1	ASC (IC)	22MATC11	Mathematics for CES - I	Mathematics	3		2	0	3+2	50	50	100	4
		22MATS11	Mathematics for CSS - I		3		2	0	3+2	50	50	100	4
2	ASC	22PHYC12	Physics for CES	Physics	3		0	0	3	50	50	100	3
		22PHYS12	Physics for CSS		3		0	0	3	50	50	100	3
3	ESC	22CIV13	Engineering Mechanics (for students of Civ Engg. only)	Civil Engg	3 or 2 (for integrated)				3 or 3+2	50	50	100	3
		22PPC13	Principles of Programming with C (for CSE/AI&ML/AI&DS only)		3 or 2 (for integrated)				3 or 3+2	50	50	100	3
4	ESC-OE	22ESC14X	Engineering Science Course-I	Respective Dept.	2				3 or 3+2	50	50	100	2
		22ETC15X	Emerging Technology Course-I or		3 or 2 (for integrated)				3 or 3+2	50	50	100	3
5	PLC-OE	22PLC15X	Programming Language Course - I	Any Engg. Dept./ Any Dept.	Any Dept.				1 or 2	50	50	100	1
		22AEC16X	Ability Enhancement Course-I		1 hour theory or 2 hours tutorial /practice/activities or any other combinations of all of them.				1 or 2	50	50	100	1
7	HSMC	22HSM17	Sanskrutika Kannada/Balake Kannada	Kannada	0				1 or 2	50	50	100	1
		22PHYL18	Physics Lab		0				2	50	50	100	1
9	ESC-L	22PSSL19	Programming for Problem Solving Lab	CSE/AI&ML/ AI&DS	0	0	2	0	2	50	50	100	1
		22PROJ10	Project - I		A batch of 4 to 5 students (same branch or different branches) with a guide, may undertake one project (1 hour of theory/tutorial or 2 hours of practice/activities)				1 or 2	50	50	100	1
Total								500	500	1000	20		
ASC (IC) - Applied Science Course - (IC - Integrated Course)				CES: Civil Engineering Stream (C)				500	500	1000	20		
ESC - Engineering Science Course				CSE: Computer Science & Engineering Stream (S)				500	500	1000	20		
ESC-OE : Engineering Science Course - Open Elective				CAED: Computer Aided Engineering Design				500	500	1000	20		
ETC-OE: Emerging Technology Course - Open Elective				SDC-OE: Skill Development Course - Open Elective				500	500	1000	20		
PLC-OE : Programming Language Course - Open Elective				HSMC: Humanities, Social Sciences and Management Course				500	500	1000	20		
AEC-OE: Ability Enhancement Course - Open Elective								500	500	1000	20		

The following courses are elective under different categories, students can choose the courses based on their choice/interest.

ESC-OE : Engineering Science Course - Open Elective	
1	22ESC141 Introduction to Civil Engineering
2	22ESC142 Introduction to Electrical Engineering
3	22ESC143 Introduction to Electronics Engineering
4	22ESC144 Introduction to Mechanical Engineering
5	22ESC145 Introduction to Energy Engineering
6	22ESC146 Introduction to Computer Science & Engineering
7	22ESC147 Introduction to AI & ML
8	22ESC148 Introduction to AI & DS

The student has to select one course from ESC-OE Group mentioned above excluding the course of his/her branch.
For Example: Civil Engineering Students shall opt for any one of the courses from ESC-OE group except 22ESC141 - Introduction to Civil Engineering.

ETC-OE: Emerging Technology Course -Open Elective		Teaching Faculty	Dept
1	22ETC151 Cyber Security	Dr. Syeda Asra	CSE
2	22ETC152 Introduction to Block Chain & Digital Currency	Dr. Laxmi Math	CSE
3	22ETC153 Waste Management	Prof. Sharanamma Patil	Civil
4	22ETC154 Sustainable Technology	Prof. Sharankumar Itagi	Civil
5	22ETC155 Introduction to IOT	Dr. Savita Patil	ECE
6	22ETC156 Introduction to Drone Technology	Dr. Sharanagauda N	ECE
7	22ETC157 Electric Vehicles	Prof. Jagadish Patil	EEE
8	22ETC158 Renewable Energy Sources	Prof. Shivakumar Rachoti	Mech

PLC-OE : Programming Language Course - Open Elective		Teaching Faculty	Dept
1	22PLC151 Web Programming	Prof. Anand N. Patil	CSE
2	22PLC152 Programming with JAVA	Prof. Gajendra	CSE
3	22PLC153 Python programming	Prof. Veerendra Basreddy	CSE

AEC-OE: Ability Enhancement Course - Open Elective		Teaching Faculty	Dept
1	22AEC161 Communication Skills		English
2	22AEC162 Networking		CSE
3	22AEC163 Welding Technology		MECH
4	22AEC164 Electrical Wiring		EEE
5	22AEC165 Public Address System O & M		ECE
6	22AEC166 AutoCAD		CIV
7	22AEC167 NCC organisation and National Integration		NCC
8	22AEC168 Personality Development, Social Service.		NSS
9	22AEC169 Environmental Studies		CIV

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B.Tech., II Semester, Chemistry Group - (for streams CES & CSS including CIV, CSE, AI&ML, AI&DS branches)

Sl. No.	Course	Course Code	Course Title	Teaching Department/ Paper Setting Board	Teaching hours/week			Examination			Credits				
					Theory/ Lecture	Tutorial	Practical/ Drawing	Activities	Duration	CIE Marks		SEE Marks	Total Marks		
1	ASC (IC)	22MATC21	Mathematics for CES - II	Mathematics	3		2	0	3+2	50	50	100	4		
		22MATS21	Mathematics for CSS - II		3		2	0	3+2	50	50	100			
2	ASC	22CHEC22	Chemistry for CES	Chemistry	3		0	0	3	50	50	100	3		
		22CHES22	Chemistry for CSS		3		0	0	3	50	50	100			
3	ESC	22CED23	CAED	Mech Engg	2		2	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		
5	ETC-OE / PLC-OE	22ETC25X/	Emerging Technology Course-II/ Programming Language Course-II	Any Engg. Dept./ Any Dept.	3 or 2 (for integrated)		0	0	3 or 3+2	50	50	100	3		
		22PLC25X	Any Dept.							50	50	100			
6	AEC-OE	22AEC26X	Ability Enhancement Course-II	Any Dept.					1 or 2	50	50	100	1		
7	HSMC	22HSM27	Indian Constitution	Respective Dept					1 or 2	50	50	100	1		
8	ASC-L	22CHEL28	Chemistry Lab	Chemistry	0	0	2	0	2	50	50	100	1		
9	ESC-L	22EECL29	Electronics and Electrical Lab	ECE or EEE	0	0	2	0	2	50	50	100	1		
10	SDC - OE	22PROJ20	Project - II	<i>A batch of 4 to 5 students (same branch or different branches) with a guide, may undertake one project (1 hour of theory/tutorial or 2 hours of practice/activities)</i>							1 or 2	50	50	100	1
Total										500	500	1000	20		
ASC (IC) - Applied Science Course - (IC - Integrated Course)				CES: Civil Engineering Stream (C)											
ESC - Engineering Science Course				CSS: Computer Science & Engineering Stream (S)											
ESC-OE : Engineering Science Course - Open Elective				CAED: Computer Aided Engineering Design											
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															

The following courses are elective under different categories, students can choose the courses based on their choice/interest.

ESC-OE : Engineering Science Course - Open Elective	
1	22ESC241 Introduction to Civil Engineering
2	22ESC242 Introduction to Electrical Engineering
3	22ESC243 Introduction to Electronics Engineering
4	22ESC244 Introduction to Mechanical Engineering
5	22ESC245 Introduction to Energy Engineering
6	22ESC246 Introduction to Computer Science & Engineering
7	22ESC247 Introduction to AI & ML
8	22ESC248 Introduction to AI & DS

The student has to select one course from ESC-OE Group mentioned above excluding the course of his/her branch.

For Example: Civil Engineering Students shall opt for any one of the courses from ESC-OE group except 22ESC141 - Introduction to Civil Engineering.

ETC-OE: Emerging Technology Course -Open Elective		Teaching Faculty	Dept
1	22ETC251 Cyber Security	Dr. Syeda Asra	CSE
2	22ETC252 Introduction to Block Chain & Digital Currency	Dr. Laxmi Math	CSE
3	22ETC253 Waste Management	Prof. Sharanamma Patil	Civil
4	22ETC254 Sustainable Technology	Prof. Sharnkumar Itagi	Civil
5	22ETC255 Introduction to IOT	Dr. Savita Patil	ECE
6	22ETC256 Introduction to Drone Technology	Dr. Sharanagauda N	ECE
7	22ETC257 Electric Vehicles	Prof. Jagadish Patil	EEE
8	22ETC258 Renewable Energy Sources	Prof. Shivakumar Rachoti	Mech

PLC-OE : Programming Language Course - Open Elective		Teaching Faculty	Dept
1	22PLC251 Web Programming	Prof. Anand N. Patil	CSE
2	22PLC252 Programming with JAVA	Prof. Galendra	CSE
3	22PLC253 Python programming	Prof. Veerendra Basreddy	CSE

AEC-OE: Ability Enhancement Course - Open Elective		Teaching Faculty	Dept
1	22AEC261 Communication Skills		English
2	22AEC262 Networking		CSE
3	22AEC263 Welding Technology		MECH
4	22AEC264 Electrical Wiring		EEE
5	22AEC265 Public Address System O & M		ECE
6	22AEC266 AutoCAD		CV
7	22AEC267 NCC organisation and National Integration		NCC
8	22AEC268 Personality Development, Social Service.		NSS
9	22AEC269 Environmental Studies		CIV

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Sl. No.	Course	Course Code	Course Title	Teaching Department/ Paper Setting Board	Teaching hours/week			Examination			Credits				
					Theory/ Lecture	Tutorial	Practical/ Drawing	Activities	Duration	CIE Marks		SEE Marks	Total Marks		
1	ASC (IC)	22MATM21	Mathematics for MES - II	Mathematics	3		2	0	3+2	50	50	100	4		
		22MATE21	Mathematics for EES -II		3		2	0	3+2	50	50	100	4		
2	ASC	22PHYM22	Physics for MES	Physics	3		0	0	3	50	50	100	3		
		22PHYE22	Physics for EES		3		0	0	3	50	50	100	3		
3	ESC	22EME23	Elements of Mechanical Engg (for Mech & Energy Engg. only)	Civil Engg	3 or 2 (for integrated)		0	0	3 or 3+2	50	50	100	3		
		22BEE23	Basic Electrical Engineering (for EEE only)		3 or 2 (for integrated)		0	0	3 or 3+2	50	50	100	3		
4	ESC-OE	22BEL23	Basic Electronics (for ECE only)	ECE	3 or 2 (for integrated)		0	0	3 or 3+2	50	50	100	3		
		22ESC24X	Engineering Science Course-II		2		0	0	3 or 3+2	50	50	100	2		
5	ETC-OE / PLC-OE	22ETC25X	Emerging Technology Course-II/	Any Engg. Dept./ Any Dept.	3 or 2 (for integrated)		0	0	3 or 3+2	50	50	100	3		
		22PLC25X	Programming Language Course-II												
6	AEC-OE	22AEC26X	Ability Enhancement Course-II	Any Dept.	1 hour theory or 2 hours tutorial /practice/activities or any other combinations of all of them.				1 or 2	50	50	100	1		
7	HSMC	22HSM27	Samskrutika Kannada/Balake kannada	Kannada					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	22PROI20	Project - II	A batch of 4 to 5 students (some branch or different branches) with a guide, may undertake one project (1 hour of theory/tutorial or 2 hours of practice/activities)							1 or 2	50	50	100	1
Total					500	500	1000	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

The following courses are elective under different categories, students can choose the courses based on their choice/interest.

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1	22ESC241	Introduction to Civil Engineering		
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4	22ESC244	Introduction to Mechanical Engineering		
5	22ESC245	Introduction to Energy Engineering		
6	22ESC246	Introduction to Computer Science & Engineering		
7	22ESC247	Introduction to AI & ML		
8	22ESC248	Introduction to AI & DS		

The student has to select one course from ESC-OE Group mentioned above excluding the course of his/her branch.

For Example: Civil Engineering Students shall opt for any one of the courses from ESC-OE group except 22ESC241 - Introduction to Civil Engineering.

ETC-OE: Emerging Technology Course -Open Elective		Teaching Faculty	Dept	
1	22ETC251	Cyber Security	Dr. Syeda Asra	CSE
2	22ETC252	Introduction to Block Chain & Digital Currency	Dr. Laxmi Math	CSE
3	22ETC253	Waste Management	Prof. Sharanamma Patil	Civil
4	22ETC254	Sustainable Technology	Prof. Sharnkumar Itagi	Civil
5	22ETC255	Introduction to IOT	Dr. Savita Patil	ECE
6	22ETC256	Introduction to Drone Technology	Dr. Sharanaganda N	ECE
7	22ETC257	Electric Vehicles	Prof. Jagadish Patil	EEE
8	22ETC258	Renewable Energy Sources	Prof. Shivakumar Rachoti	Mech

PLC-OE : Programming Language Course - Open Elective

1	22PLC251	Web Programming	Prof. Anand N. Patil	CSE
2	22PLC252	Programming with JAVA	Prof. Gajendra	CSE
3	22PLC253	Python programming	Prof. Veerendra Basreddy	CSE

AEC-OE: Ability Enhancement Course - Open Elective

1	22AEC261	Communication Skills			English
2	22AEC262	Networking			CSE
3	22AEC263	Welding Technology			MECH
4	22AEC264	Electrical Wiring			EEE
5	22AEC265	Public Address System O & M			ECE
6	22AEC266	AutoCAD			CIV
7	22AEC267	NCC organisation and National Integration			NCC
8	22AEC268	Personality Development, Social Service.			NSS
9	22AEC269	Environmental Studies			CIV