

**Sharnbasva University, Kalaburagi**  
**Scheme of Teaching and Examination 2022-23**  
**[As Per NEP, Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme]**  
 (Effective from the academic year 2022-23)

**Programme: B.Tech : Civil Engineering**

**III SEMESTER**

Sl. No.	Course Code		Course Title	Teaching Department	Teaching Hours/week			Examination				Credit
					Th eor y Lec ture	Tuto rial	Pra ctic al/ Dra win g	Durat io n in H ou rs	CIE Mark s	SEE Mark s	T ot al M ar ks	
					L	T	P					
1	BS	22MATC31	Mathematics for CES-III	Mathematics	3			3	50	50	100	03
2	PCC	22CV32	Mechanics of Materials	Respective Branch	3	1		4	50	50	100	04
3	PCC	22CV33	Fluid Mechanics	Respective Branch	2	1		3	50	50	100	03
4	PCC	22CV34	Basic Surveying	Respective Branch	2	1		3	50	50	100	03
5	PCC	22CV35	Building Materials and Construction Technology	Respective Branch	2	1		3	50	50	100	03
6	PCC	22CVL36	Building Materials Testing Lab	Respective Branch			2	2	50	50	100	01
7	PCC	22CVL37	Surveying Practice-1 Lab	Respective Branch			2	2	50	50	100	01
8	PCC	22CVL38	Auto- Cad Lab	Respective Branch			2	2	50	50	100	01
9	PW	22PRJ39	Project-III	Respective Branch			2	2	50	50	100	01
10	HSS	22HSM310B	Soft Skills	Humanities	1			1	50	50	100	01
11	AEC	22ACV311A	Microsoft office				2	2	50	50	100	01
<b>Total</b>					<b>13</b>	<b>4</b>	<b>10</b>	<b>27</b>	<b>550</b>	<b>550</b>	<b>1100</b>	<b>22</b>

Note: BS-Basic Science, PCC- Programme Core Course, PW-Project Work, AEC- Ability Enhancement Course, HSS-Humanity and Social Science, NCMC-Non Credit Mandatory Course

Project(PRJ): A Batch of 4 students (Same Branch or Different Branches with a Guide, May undertake one project.

**Ability Enhancement Course-3**

Course code under 22AEC311X	Course Title
22ACV311A	Microsoft office
22ACV311B	Sketch Up

**Courses prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs**

12	NMC	22MATDIP 31	Additional Mathematics – I	2	-	-	100	0 0	100	00
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1) Non Credit Mandatory Courses (NMC) Additional Mathematics-I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of B. Tech. programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the university examination. In case any student fails to register for the said course/fails to secure the minimum 50% of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

2) These courses shall not be mandatory for vertical progression, but completion of the courses shall be mandatory for the award of degree.

**Courses prescribed to lateral entry B.Sc. degree holders admitted to III semester of Engineering programs**

Lateral entry students from B.Sc. stream, shall clear the non credit courses Computer Aided Engineering Drawing, Elements of Civil Engineering of First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

**AICTE Activity Points to be earned by students admitted to B.Tech. programme ( For more details refer to Chapter 6,AICTE Activity Point Programme, Model Internship Guidelines):**

Over and above the academic grades, every regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other universities to fifth semester are required to earn 50 activity points from the year of entry to Sharnbasva University. The- Activity Points earned shall be reflected on the students eighth semester Grade card.

The activities can be spread over the years, anytime during the semester weekends holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours requirement should be fulfilled. Activity Points(non credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity points, Eighth semester Grade Card shall be issued only after earning the required activity points. Student shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

<b>Sharnbasva University, Kalaburagi</b> <b>Scheme of Teaching and Examination 2022-23</b> <b>[As Per NEP, Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme]</b> (Effective from the academic year 2022-23)						
Programme: B.Tech: Civil Engineering						
IV SEMESTER						
Sl. No.	Course Code	Teaching to Department	Teaching Hours/ week	Examination	Credits	

			e									
				<b>Theory Lecture</b>	<b>Tutorial</b>	<b>Practical/ Drawing</b>	<b>Duration in Hours</b>	<b>CIE Marks</b>	<b>SEE Marks</b>	<b>Total Marks</b>		
				<b>L</b>	<b>T</b>	<b>P</b>						
1	BS	22MATC41	Mathematics for CES-IV	Mathematics	3			3	50	50	100	03
2	PCC	22CV42	Structural Analysis- 1	Respective Branch	2	1		3	50	50	100	03
3	PCC	22CV43	Hydraulics and Hydraulic Machines	Respective Branch	2	1		3	50	50	100	03
4	PCC	22CV44	Basic Geotechnica l Engineering	Respective Branch	2	1		3	50	50	100	03
5	PCC	22CV45	Concrete Technology	Respective Branch	2	1		3	50	50	100	03
6	PCC	22CVL46	B u i l d i n g  I n f o r m a	Respective Branch			2	3	50	50	100	01



Course
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Project(PRJ): A Batch of 4 students (Same Branch or Different Branches with a Guide, May undertake one project.											
<b>Ability Enhancement Course-4</b>											
<b>Course code under 22AEC411X</b>						<b>Course Title</b>					
22ACV411A						Applied Engineering Geology Lab					
22ACV411B						Mx Road					

<b>Courses prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs</b>											
12	NCMC	22MATDI P41	Addi onal Mathe matics – II	Mathemat ics	2	-	-	-	100	00	100 00

3) Non Credit Mandatory Courses (NCMC) Additional Mathematics-I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of B. Tech. programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the university examination. In case any student fails to register for the said course/fails to secure the minimum 50% of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

4) These courses shall not be mandatory for vertical progression, but completion of the courses shall be mandatory for the award of degree.

<b>Courses prescribed to lateral entry B.Sc. degree holders admitted to III semester of Engineering programs</b>											
Lateral entry students from B.Sc. stream, shall clear the non credit courses Computer Aided Engineering Drawing, Elements of Civil Engineering of First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.											

**AICTE Activity Points to be earned by students admitted to B.Tech. programme (For more details refer to Chapter 6,AICTE Activity Point Programme, Model Internship Guidelines):**Over and above the academic grades, every regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other universities to fifth semester are required to earn 50 activity points from the year of entry to Sharnbasva University. The Activity Points earned shall be reflected on the students eighth semester Grade card. The activities can be spread over the years, anytime during the semester weekends holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours requirement should be fulfilled. Activity Points (noncredit) have no effect on SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity points, Eighth semester Grade Card shall be issued only after earning the required activity points. Student shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

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**Scheme of Teaching and Examination 2022-23**  
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 (Effective from the academic year 2024-25)

**Programme: B.Tech: Civil Engineering**

**V SEMESTER**

Sl. No.	Course Code		Course Title	Teaching Department	Teaching Hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
1	HSS	22HSM51	Management and Entrepreneurship Development	CV	2	1		3	50	50	100	03
2	PCC	22CV52	Design of RC Structural Elements	CV	3	1		3	50	50	100	04
3	PCC	22CV53	Structural analysis-II	CV	3	0		3	50	50	100	03
4	PEC	22CV54X	Professional Elective Course-I	CV	2	1		3	50	50	100	03

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**Professional Elective Course-I**

**Course code under 22EC54X**

**Course Title**

22CV541

Advanced geotechnical engineering

22CV542

Masonry structures

**Open Elective Course-I**

**Course code under 22XX55X**

**Course Title**

22CV551

Water conservation and Rainwater Harvesting

22CV552

Smart cities

**Ability Enhancement Course-V**

**Course code under 21EC510X**

**Course Title**

22ACV510A

Field Training

22ACV510B

Civil 3d

**AICTE Activity Points:** In case students fail to earn the prescribed activity points, eighth semester Grade Card shall be issued only after earning the

Required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

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**Scheme of Teaching and Examination-2022-23**  
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**Programme: B.Tech: Civil Engineering**

**VI SEMESTER**

Sl. No.	Course Code	Department	Teaching Unit or Title	Teaching Hours/ week	Examination	Credits					
				Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total Marks	

				L	T	P				rks		
1	PCC	22CV61	Design of steel structures	CV	2	1		3	50	50	100	03
2	PCC	22CV62	Hydrology and irrigation Engineering	CV	2	1		3	50	50	100	03
3	PEC	22CV63X	Professional Elective Course-II	CV	2	1		3	50	50	100	03
4	PEC	22CV64X	Professional Elective Course-III	CV	2			3	50	50	100	03
5	OEC	22XX65X	Open Elective Course-II	CV	3	1		3	50	50	100	04
6	PCC	22CVL66	Extensive survey lab	CV			2	3	50	50	100	01
7	PCC	22CVL67	Software application lab-II	CV			2	3	50	50	100	01
8	PCC	22CVL68	Environmental Engineering Lab	CV		1	2	3	50	50	100	01
9	PW	22PRJ69	Project-VI	CV			2	3	50	50	100	01
10	HSS	22HSM610	Professional Ethics	CV	1			3	50	50	100	01
11	AEC	22ACV61	Ability	CV			2	3	50	50	100	01

		1X	Enhance ment Course- VI									
T o t a l	12	5	10	33	550	550	1000	22				
Note: PCC-Professional Core Course, PEC-Professional Elective Course, OEC-Open Elective Course, PW-Project Work, HSS-Humanity and Social Science, AEC- Ability Enhancement Course. UHV- Universal Human Values, OC-Online Course.												
Project(PRJ): 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 two hours of practice /activities												
Professional Elective Course-II												
Course code under 22EC63X	Course Title											
22CV631	Environmental Engineering											
22CV632	Repair Rehabilitation and Retrofitting of structures											
Professional Elective Course-III												
Course code under 22EC64X	Course Title											
22CV641	Highway Engineering											
22CV642	Alternate building materials											
Open Elective Course-II												
Course code under 22EC65X	Course Title											
22CV651	Solid waste management											

22CV652	Air pollution and control
<b>Ability Enhancement Course-VI</b>	
<b>Coursecodeunder22EC611X</b>	<b>Course Title</b>
22ACV611A	construction industrial safety Engineering
22ACV611B	Drone surveying
<b>AICTE Activity Points:</b> In case students fail to earn the prescribed activity points, Eighth semester Grade Card shall be issued only after earning the Required activity points. Student shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.	