

Sharnbasva University, KalaburagiScheme 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												
IIISEMESTER												
Sl. No.	CourseCode		CourseTitle	TeachingDepartment	TeachingHours/week			Examination				Credits
					TheoryLecture	Tutorial	Practical/Drawing	DurationinHours	CIEMarks	SEEMarks	TotalMarks	
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
Total					13	4	10	27	550	550	1100	22
Note:BS-BasicScience,PCC- Programme Core Course,PW-ProjectWork, AEC- Ability Enhancement Course,HSS-HumanityandSocialScience,NCMC-NonCreditMandatoryCourse												

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									
Coursesprescribedtolateral entryDiplomaholdersadmittedtoIIIsemesterofEngineeringprograms													
12	NCMC	22MATDIP31	AdditionalMathematics– I		Mathematics	2	-	-	-	100	00	100	00
1) Non Credit Mandatory Courses (NCMC) Additional Mathematics-I and II prescribed for III and IV semesters respectively, to the lateral entryDiploma holders admitted to III semester of B. Tech. programs, shall attend the classes during the respective semesters to complete all theformalities of the course and appear for the university examination. In case any student fails to register for the said course/fails to secure theminimum 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 therequirementsduring 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.													
Coursesprescribedtolateral entryB.Sc.degreeholdersadmittedtoIIIsemesterofEngineeringprograms													
Lateral entry students from B.Sc. stream, shall clear the non credit courses Computer Aided Engineering Drawing, Elements of Civil Engineering ofFirst YearEngineering 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 PointProgramme,ModelInternshipGuidelines):													
Over and above the academic grades, every regular student admitted to the 4 years Degree programme and every student entering 4 years Degreeprogramme through lateral entry, shall earn 100 and 75 Activity points respectively for the award of degree through AICTE Activity PointProgramme. Students transferred from other universities to fifth semester are required to earn 50 activity points from the year of entry to SharnbasvaUniversity.The-Activity Points earned shall be reflected on the student's eighth semesterGrade card.													
The activities can be spread over the years, any time 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 onSGPA/CGPAand 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.													
Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.													

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Programme: B.Tech: Civil Engineering

IV SEMESTER

Sl. No.	CourseCode		CourseTitle	TeachingDepartment	TeachingHours/ week			Examination				Credits
					TheoryLecture	Tutorial	Practical/Drawing	Duration inHours	CIE Marks	SEEMarks	Total Marks	
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 Geotechnical 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	Building Information Modelling Lab	Respective Branch			2	3	50	50	100	01
7	PCC	22CVL47	Surveying Practice – II Lab	Respective Branch			2	3	50	50	100	01
8	PCC	22CVL48	Fluid Mechanics and Hydraulics Machines Lab	Respective Branch			2	3	50	50	100	01
9	PW	22PRJ49	Project-IV	Respective Branch			2	3	50	50	100	01
10	HSS	22UHV410	Universal Human Values	Humanities	3			3	50	50	100	03
11	AEC	22ACV411A	Applied Engineering Geology Lab				2	3	50	50	100	01
Total					14	4	10	33	550	550	1100	23

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-4													
Course code under 22AEC411X					Course Title								
22ACV411A					Applied Engineering Geology Lab								
22ACV411B					Mx Road								
Coursesprescribedtolateral entryDiplomaholdersadmittedtoIIIsemesterofEngineeringprograms													
12	NCMC	22MATDIP41	AdditionalMathematics–II		Mathematics	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 entryDiploma holders admitted to III semester of B. Tech. programs, shall attend the classes during the respective semesters to complete all theformalities of the course and appear for the university examination. In case any student fails to register for the said course/fails to secure theminimum 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 therequirementsduring 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.													
Coursesprescribedtolateral entryB.Sc.degreeholdersadmittedtoIIIsemesterofEngineeringprograms													
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 Degreeprogramme through lateral entry, shall earn 100 and 75 Activity points respectively for the award of degree through AICTE Activity PointProgramme. Students transferred from other universities to fifth semester are required to earn 50 activity points from the year of entry to SharnbasvaUniversity.TheActivity Points earned shall be reflected on the studentseighth semesterGradecard. The activities can be spread over the years, anytime during the semester weekends holidays, as per the liking and convenienceof the student fromthe year of entry to the programme. However, minimum hours requirement should be fulfilled. Activity Points (noncredit) have no effect onSGPA/CGPAand shall not be consideredforvertical progression. Incasestudentsfailtoearntheprescribedactivitypoints,EighthsemesterGradeCardshallbeissuedonlyafterearningtherequiredactivitypoints. Studentshallbeadmittedforthe awardofthedegreeonly aftertherelease oftheEighthsemester GradeCard.													

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Scheme of Teaching and Examination2022-23												
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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	
					L	T	P					
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
5	OEC	22XX55X	Open Elective Course-I	CV	3	1		3	50	50	100	04
6	PCC	22CVL56	Concrete and Highway Material Testing Lab	CV			2	3	50	50	100	01
7	PCC	22CVL57	Geotechnical engineering Lab	CV			2	3	50	50	100	01
8	PCC	22CVL58	Software application lab-I	CV			2	3	50	50	100	01
9	PW	22PRJ59	Project-V	CV			2	3	50	50	100	01
10	AEC	22ACV510X	Ability Enhancement Course-V	CV			2	3	50	50	100	01
Total					13	4	10	30	500	500	1000	22
Note:PCC- Programme Core Course, PEC- Professional Elective Course, PW-Project Work, HSS-Humanity and Social Science, OEC- Open Elective Course, AEC- Ability Enhancement Course, UHV- Universal Human Values.												
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-I	
Course code under 22EC54X	Course Title
22CV541	Advanced geotechnical engineering
22CV542	Masonry structures
Open Elective Course-I	
Coursecodeunder22XX55X	Course Title
22CV551	Water conservation and Rainwater Harvesting
22CV552	Smart cities
Ability Enhancement Course-V	
Coursecodeunder21EC510X	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		Course Title	Teaching Department	Teaching Hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
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	22ACV611X	Ability Enhancement Course-VI	CV			2	3	50	50	100	01
Total					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
Ability Enhancement Course-VI	
Coursecodeunder22EC611X	Course Title
22ACV611A	construction industrial safety Engineering
22ACV611B	Drone surveying
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. Student shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.	

