

Sharnbasva University, Kalaburagi
Scheme of Teaching and Examination 2021-22
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
 (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				Credits
					Theory Lecture	Tutorial	Practical/Draft	Duration in Hours	CIEMarks	SEEMarks	Total Marks	
					L	T	P					
1	BS	21MAT31	Engineering Mathematics-III	Mathematics	3			3	50	50	100	03
2	PCC	21CV32	Mechanics of Materials		3	1		3	50	50	100	04
3	PCC	21CV33	Fluid Mechanics		2	1		3	50	50	100	03
4	PCC	21CV34	Basic Surveying		2	1		3	50	50	100	03
5	PCC	21CV35	Building Materials and Construction Technology		1	1		3	50	50	100	02
6	PCC	21CVL36	Building Material Testing Lab				2	3	50	50	100	01
7	PCC	21CVL37	Surveying Practice-I Lab				2	3	50	50	100	01
8	PCC	21CVL38	Applied Engineering Geology Lab				2	3	50	50	100	01
9	PW	21PRJ39	Project-III				2	3	50	50	100	01
10	HSS	21KANKK310	Kannada Kali-III	Humanities	1			2	50	50	100	01
		21KANAK310	Ayda Kategalu									
11	AEC	21ACV311X	Ability Enhancement Course-III				2	3	50	50	100	01
Total					12	4	10	32	550	550	1100	21

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

21KANKK310 Kannada Kali-III is for non Kannada speaking, reading and writing students and 21KANAK310 Ayda Kategalu is for the students who speak, read and write Kannada.

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Programme: B.Tech: Civil Engineering

IV SEMESTER

Sl. No.	CourseCode		CourseTitle	Teaching Department	Teaching Hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Dra	Duration inHours	CIEMarks	SEEMarks	Total Marks	
1	BS	21MAT41	EngineeringMathematics-IV	Mathematics	3			3	50	50	100	03
2	PCC	21CV42	Structural Analysis-I		3	1		3	50	50	100	04
3	PCC	21CV43	Hydraulics and Hydraulic Machines		2	1		3	50	50	100	03
4	PCC	21CV44	Basic Geotechnical Engineering		2	1		3	50	50	100	03
5	PCC	21CV45	Concrete Technology		1	1		3	50	50	100	02
6	PCC	21CVL46	Computer AidedBuilding Planning and Drawing-Lab				2	3	50	50	100	01
7	PCC	21CVL47	Surveying Practice-II Lab				2	3	50	50	100	01
8	PCC	21CVL48	Fluid Mechanics and Hydraulic Machines Lab				2	3	50	50	100	01
9	PW	21PRJ49	Project-IV				2	3	50	50	100	01
10	HSS	21KANKK410	KannadaKali-IV	Humanities	1			2	50	50	100	01
		21 KANMD410	Mahadasohigalu									
11	AEC	21ACV411X	Ability Enhancement Course-IV				2	3	50	50	100	01
Total					12	4	10	32	550	550	1100	21

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

21KANKK410 Kannada Kali-IV is for non Kannada speaking, reading and writing students and 21KANMD410 Mahadasohigalu is for the students who speak, read and write Kannada.

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Programme: B.Tech: Civil Engineering

V SEMESTER

Sl. No.	CourseCode		CourseTitle	Teaching Department	Teaching Hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Dra	Duration inHours	CIEMarks	SEEMarks	Total Marks	
1	HSS	21CV51	Construction Managementand Entrepreneurship		2	1		3	50	50	100	03
2	PCC	21CV52	Design of RCC Structures		2	1		3	50	50	100	03
3	PCC	21CV53	Structural Analysis -II		2	1		3	50	50	100	03
4	PEC	21CV54X	Professional Elective Course-I		2	1		3	50	50	100	03
5	OEC	21CV55X	Open Elective Course-I		3	1		3	50	50	100	04
6	PCC	21CVL56	Building Information ModelingLab				2	3	50	50	100	01
7	PCC	21CVL57	Concrete & Highway Materials Testing Lab				2	3	50	50	100	01
8	PEC	21CVL58	Geo technical engineering lab				2	3	50	50	100	01
9	PW	21PRJ59	Project-V				2	3	50	50	100	01
10	AEC	21ACV510X	Ability Enhancement Course-V				2	3	50	50	100	01
Total					11	05	10	30	500	500	1000	21

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.

Project (PRJ): Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or multidisciplinary mini project can be assigned to an individual student/s or to a group having not more than 4 students

Professional Elective Course-I	
Coursecodeunder21CV54X	CourseTitle
21CV541	Advanced Geotechnical Engineering
21CV542	Masonry structure
OpenElective Course-I	
Coursecodeunder21CV55X	CourseTitle
21CV551	Alternative Building Materials
21CV552	Repair & Rehabilitation of Structures
Ability Enhancement Course-V	
Coursecodeunder21ACV510X	CourseTitle
21ACV5101	Field training
AICTEActivityPoints: Incasestudentsfailtoearntheprescribedactivitypoints,EighthsemesterGradeCardshallbeissuedonlyafterearningthe requiredactivitypoints.Studentshallbeadmittedfortheawardofthedegreeonlyaftertherelease of theEighthsemesterGradeCard.	

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VISEMESTER

Sl. No.	CourseCode		CourseTitle	Teaching Department	Teaching Hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Draft	Duration inHours	CIEMarks	SEEMarks	Total Marks	
1	PCC	21CV61	Design of Steel Structures		2	1		3	50	50	100	03
2	PCC	21CV62	Hydrology and irrigation Engineering		2	1		3	50	50	100	03
3	PEC	21CV63X	Professional Elective Course-II		3			3	50	50	100	03
4	PEC	21CV64X	Professional Elective Course-III		3			3	50	50	100	03
5	OEC	21CV65X	Open Elective Course-II		3	1		3	50	50	100	04
6	PCC	21CVL66	Extensive Survey Lab				2	3	50	50	100	01
7	PEC	21CVL67	Software Application Lab				2	3	50	50	100	01
8	PEC	21CVL68	Environmental Engineering Lab				2	3	50	50	100	01
9	PW	21PRJ69	Project-VI				2	3	50	50	100	01
10	HSS	21HSM69	Professional Ethics	Humanities	1			3	50	50	100	01
11	AEC	21ACV610X	Ability Enhancement Course-VI				2	3	50	50	100	01
Total					14	3	10	33	550	550	1100	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. Internship- To be carried out during the vacation/s of VI and VII semesters or VII and VIII semesters

Project (PRJ): Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or multidisciplinary mini project can be Assigned to an individual student or to a group having not more than 4 students.

Professional Elective Course-II	
Coursecodeunder21CV63X	CourseTitle
21CV631	Environmental Engineering
21CV632	Sustainability concepts in Engineering
Professional Elective Course-III	
Coursecodeunder 21CV64X	CourseTitle
21CV641	Highway Engineering
21CV642	Ground improvement techniques
Open Elective Course-II	
Coursecodeunder21CV65X	CourseTitle
21CV651	Solid Waste Management
21CV652	Air pollution & control
Ability Enhancement Course-VI	
Coursecodeunder21ACV610X	CourseTitle
21ACV6101	Construction project management using primavera P-6
21ACV6102	Quantity Estimation
AICTEActivityPoints: 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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VII SEMESTER

Sl. No.	CourseCode		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	21CV71	Estimation ,Costing and Contract Management		2	1		3	50	50	100	03
2	PCC	21CV72	Design of RCC and Steel Structures		2	1		3	50	50	100	03
3	PCC	21CV73	Railway,Harbour,Tunnel and Airport		3	0		3	50	50	100	03
4	PEC	21CV74X	Professional Elective Course-IV		2	1		3	50	50	100	03
5	OEC	21CV75X	Open Elective Course-III		3	1		3	50	50	100	04
6	PCC	21CVL76	3D Modeling software lab				2	3	50	50	100	01
7	PCC	21CVL77	Civil Workshop Lab				2	3	50	50	100	01
8	PEC	21CVL78	Computer Aided Detailing of Structure Lab				2	3	50	50	100	01
9	PW	21PRJ79	Project-VII				2	3	50	50	100	01
10	HSS	21HSM710	Industrial Psychology and OrganisationalBehaviour	Humanities	1			3	50	50	100	01
Total					13	4	8	30	500	500	1000	21

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.

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-IV	
Course code under 21CV74X	Course Title
21CV741	Municipal and industrial waste water Engineering
21CV742	Pavement Design
Open Elective Course-IV	
Coursecodeunder21CV74X	Course Title
21CV751	Green Building
21CV752	Intelligent Transport system
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.	

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Sl. No.	CourseCode		CourseTitle	Teaching Department	Teaching Hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Dra	Duration inHours	CIEMarks	SEEMarks	Total Marks	
1	Project	21PRJ81	Research Project / Field Project - VIII				16	3	50	50	100	08
2	Internship	21CVI82	Internship				12	3	50	50	100	06
Total							18	06	100	100	200	14

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. Internship-To be carried out during the vacation/s of VI and VII semesters VIII semesters

Project(PRJ):Based on the ability/abilities of the student/s and recommendations of the mentor, assign discipline or multidisciplinary mini project can be assigned to individual students or to a group having more than four students.

Note: Project-8 Manufacturable and marketable project / Research project/Field Project.