

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 2021-22)												
I SEMSTER M.Tech : Structural Engineering												
Sl. No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week			Examination				Credits
					L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	HCC-I	21CSE11	Advanced Design of RC Structures		4			3	50	50	100	03
2	HCC-II	21CSE12	Computational Structural Mechanics		4			3	50	50	100	03
3	CEC-I	21CSE13X	Core Elective Course-I		3			3	50	50	100	03
4	CEC-II	21CSE14X	Core Elective Course - II		3			3	50	50	100	03
5	SCC-I	21RM15	Research Methodology and IPR		2			3	50	50	100	02
6	LAB-I	21CSEL16	Advance Concrete Testing Lab				4	3	50	50	100	02
7	LAB-I	21CSEL17	Structural Analysis and Design Lab-I				4	3	50	50	100	02
8	PW-I	21CSE18	Project-I				4	3	50	50	100	02
9	AC-I	21AD1X	Audit – I		1			3	50	50	100	*NCMC
Total					17	0	12	27	450	450	900	20

*NCMC: Noncredit mandatory course

Audit Course	
21AD11/21	English for Research Paper Writing
21AD12/22	Disaster Management
21AD13/23	Sanskrit for Technical Management
21AD14/24	Value Education
21AD15/25	Constitution of India
21AD16/26	Pedagogy Studies
21AD17/27	Stress Management
21AD18/28	Personality Development through Life Enlightenment Skills

Core Elective Course-I	
21CSE131	Advanced Design of Pre-Stressed Concrete Structures
21CSE132	Structural Dynamics
21CSE133	Design of Precast & Composite Structures
21CSE134	Reliability Analysis of Structures

Core Elective Course-II	
21CSE141	Design of Masonry Structures
21CSE142	Special Concrete
21CSE143	Advanced Design of Steel Structures.
21CSE144	Disaster Mitigation and Management

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II SEMSTER M.Tech : Structural Engineering

Sl. No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week			Examination				Credits
					L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	HCC-III	21CSE21	Mechanics of Deformable bodies		3	-	-	3	50	50	100	03
2	HCC-IV	21CSE22	Earthquake Resistance Structures		3	-	-	3	50	50	100	03
3	CEC-III	21CSE23X	Core Elective Course -III		3	-	-	3	50	50	100	03
4	CEC-IV	21CSE24X	Core Elective Course -IV		3	-	-	3	50	50	100	03
5	LAB-III	21CSEL25	Advanced Civil Engineering Workshop				4	3	50	50	100	02
6	LAB-IV	21CSEL26	Structural Analysis and Design Lab-II				4	3	50	50	100	02
7	PW-II	21CSE27	Project-II				4	3	50	50	100	02
8	AC-II	21AD2X	Audit – II		1	-	-	3	50	50	100	*NC MC
Total					13	-	12	24	400	400	800	18

*NCMC: Noncredit mandatory course

Audit Course	
21AD11/21	English for Research Paper Writing
21AD12/22	Disaster Management
21AD13/23	Sanskrit for Technical Management
21AD14/24	Value Education
21AD15/25	Constitution of India
21AD16/26	Pedagogy Studies
21AD17/27	Stress Management
21AD18/28	Personality Development through Life Enlightenment Skills

Core Elective Course-III		Core Elective Course-IV	
21CSE231	Corrosion of steel in concrete	21CSE241	Finite Elements Method of Analysis
21CSE232	Stability Of Structures	21CSE242	Pavement Design
21CSE233	Design Concepts of Substructures	21CSE243	Design of Tall structures
21CSE234	Repair & Rehabilitation of Structures.	21CSE244	Valuation Engineering

Open Elective Course I	
21CSEOE321	Business Analytics
21CSEOE322	Industrial Safety
21CSEOE323	Operations Research
21CSEOE324	Cost Management of Engineering Projects
21CSEOE325	Composite Materials
21CSEOE326	Waste to Energy

Sl. No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/ week			Examination				Credits
					L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	CEC-V	21CSE31X	Core Elective Course -V		3	-	-	3	50	50	100	03
2	OEC-I	21CSEOE32X	Open Elective-I		3	-	-	3	50	50	100	03
3	PW-III	21CSE33	Project-III		-	-	4	3	50	50	100	08
Total					06	-	4	09	150	150	300	114

Core Elective Course-V	
21CSE311	Design of Concrete Bridges
21CSE312	Optimization Techniques
21CSE313	Advanced Design of Foundation
21CSE314	Construction Management

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III SEMSTER M.Tech : Structural Engineering

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IV SEMSTER M.Tech : Structural Engineering												
Sl. No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week			Examination				Credits
					L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PW-IV	21CSE41	Research Project -IV (Final Deserption and Publication)		-	-	20	3	100	200	300	12
2	PW-V	21CSE42	Internship		-	-	40	3	50	50	100	08
Total					-	-	60	06	150	250	400	20

Note: Internship comprises following sub components:

1. All the students shall undergo mandatory internship of 16 weeks
2. Presentation on Internship (after 8 weeks from the date of commencement) (CIE) for 25 marks.
3. Evaluation of Internship Report (CIE) for 25 marks.
4. Viva-voce on Internship (SEE) for 50 marks.

Project evaluation: valuation shall be taken up at the end of the IVth semester (SEE)

- a) Internal examiner shall carry out the evaluation for 100 marks
- b) External examiner shall carry out evaluation for 100 marks
- c) The average of marks allotted by the internal and external examiner shall be the final marks of the project evaluation.
- d) Viva-voce examination of the project work shall be conducted jointly by internal and external examiner for 100 marks.

