

SHARANBASVA UNIVERSITY, KALABURAGI
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2019-2020

M.Tech.- Structural Engineering

I SEMESTER

Sl. No.	Course Code	Course Title	Teaching Hours /Week		Examination				Credit
			Theory	Practical/ Field Work/ Assignment	Duration of Exam	CIE	SEE	Total Marks	
1	19CSE11	Advanced Design of RC Structures	4	-	3	50	50	100	4
2	19CSE12	Computational Structural Mechanics	4	-	3	50	50	100	4
3	19CSE13	Design of Masonry Structures	4	-	3	50	50	100	4
4	19CSE14	Structural Dynamics	4	-	3	50	50	100	4
5	19CSE15X	Elective-I	4	-	3	50	50	100	4
6	19CSEL16	Structural Analysis and Design Lab-I		3	3	50	50	100	2
7	19CSE17	Mini-Project-I	-	3	-	50	50	100	2
TOTAL			20	6		400	300	700	24

Elective -I	
19CSE151	Advanced Design of Pre-Stressed Concrete Structures
19CSE152	Special Concrete
19CSE153	Design of Precast & Composite Structures
19CSE154	Reliability Analysis of Structures
19CSE155	Disaster Mitigation and Management

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Sl. No.	Course Code	Course Title	Teaching Hours /Week		Examination				Credit
			Theory	Practical/ Field Work/ Assignment	Duration of Exam	CIE	SEE	Total Marks	
1	19CSE21	Advanced Design of Steel Structures	4	-	3	50	50	100	4
2	19CSE22	Theory of Plates and Shells	4	-	3	50	50	100	4
3	19CSE23	Finite Elements Method of Analysis	4	-	3	50	50	100	4
4	19CSE24	Earthquake Resistance Structures	4	-	3	50	50	100	4
5	19CSE25X	Elective-II	4	-	3	50	50	100	4
6	19CSEL26	Structural Analysis and Design Lab-II		3	3	50	50	100	2
7	19CSE27	Mini-Project-II	-	3	-	50	50	100	2
TOTAL			20	6	18	400	300	700	24

Elective -II	
19CSE251	Design of Tall structures
19CSE252	Repair and Rehabilitation of Structures
19CSE253	Stability of Structures
19CSE254	Design Concepts of Substructures
19CSE255	Corrosion of Steel in Concrete

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III SEMESTER

Course Code	Course Title	Teaching & Learning (Hrs/week)		Practical/ Project/ Field work (Hrs/week)	Duration of Exam in Hours	Marks for		Total Marks	Credits
		Lectures	Discourse/ Self-study/ Assignment			CIE	SEE		
19CSE31	Design of Concrete Bridges	3	2	--	3	50	50	100	4
19CSE32X	Open elective	3	2	--	3	50	50	100	3
19CSE33	Main Project Phase –I	--	--	4	3	50	50	100	08
Total		6	4	4	9	150	150	300	15

Open Elective 1	
1	Optimization Techniques
2	Industrial Safety
3	Operations Research
4	Cost Management of Engineering Projects
5	Composite Materials
6	Waste to Energy

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IV SEMESTER:

Sl. No.	Course Code	Title	Teaching Hours /Week		Examination				Credit
			Theory	Practical/Field Work/ Assignment	Duration of Exam	CIE	SEE	Total Marks	
1	19CSE41	Internship	-	40	03	50	50	100	06
2	19CSE42	Main Project Phase -II	-	20	03	100	200	300	12
TOTAL			-	64	06	100	100	400	18

Note: Internship comprises following sub components:

1. Presentation on Internship (after 8 weeks from the date of commencement) (CIE) for 25 marks.
 2. Evaluation of Internship Report (CIE) for 25 marks.
 3. Viva-voce on Internship (SEE) for 50 marks.
1. Project phase-I: 6 weeks duration shall be carried out between II and III semester vacation. Candidates in consultation with the guide shall carryout literature survey/ visit industries to finalize the topic of the project.
 2. Project phase-II: 16 weeks duration during IVth semester. CIE 100 marks evaluation done by the committee constituted comprising of chairman of the department, guide and senior faculty of the department.
 3. 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.

Viva-voce examination of the project work shall be conducted jointly by internal and external examiner for 100 marks.