

**13. Courses of Study and Scheme of Assessment
BE CIVIL ENGINEERING**

(2019 Regulations)

Course Code	Course Title	Periods / week				Maximum Marks				
		Lecture	Tutorial	Practical	Credits	CA	FE	Total	CAT	
SEMESTER VII										
19____	Open Elective II	3	0	0	3	50	50	100	OE	
19C__	Professional Elective I	3	0	0	3	50	50	100	PE	
19C__	Professional Elective II	3	0	0	3	50	50	100	PE	
19C__	Professional Elective III	3	0	0	3	50	50	100	PE	
19C__	Professional Elective IV	3	0	0	3	50	50	100	PE	
19C710	Design and Detailing of Structures	0	0	4	2	50	50	100	EEC	
19C711	Computer Analysis and Design Laboratory	0	0	4	2	50	50	100	EEC	
19C720	Project Work I	0	0	4	2	50	50	100	EEC	
Total 27 periods		15	0	12	21	400	400	800		

SEMESTER VIII										
19C__	Professional Elective V	3	0	0	3	50	50	100	PE	
19C__	Professional Elective VI	3	0	0	3	50	50	100	PE	
19C820	Project Work II	0	0	8	4	50	50	100	EEC	
Total 14 periods		6	0	8	10	150	150	300		

CA Continuous Assessment

FE Final Examination

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PROFESSIONAL ELECTIVES

STRUCTURAL ENGINEERING

19C001	Advanced Reinforced Concrete Design
19C002	Advanced Steel Design
19C003	Basics of Structural Dynamics and Earthquake Resistant Design
19C004	Bridge Engineering
19C005	Design of Energy Efficient Buildings
19C006	Disaster Management and Mitigation
19C007	Repair and Rehabilitation of Structures
19C008	Industrial Structures
19C009	Prestressed Concrete Structures
19C010	Finite Element Analysis
19C011	Prefabricated Structures

HYDROLOGY AND WATER RESOURCES ENGINEERING

19C015	Groundwater Engineering
19C016	Irrigation Engineering

ENVIRONMENTAL ENGINEERING

19C021	Environmental Impact Assessment
19C022	Industrial Waste Management
19C023	Solid Waste Management

GEOTECHNICAL ENGINEERING

19C026	Geosynthetics in Civil Engineering
19C027	Ground Improvement Techniques
19C028	Pavement Engineering

URBAN SYSTEM ENGINEERING

19C031	Airport Docks and Harbour Engineering
19C032	Housing Planning and Management
19C033	Traffic Engineering, Safety and Management

SURVEY AND REMOTE SENSING

19C036	Cartography
19C037	Geographic Information Systems
19C038	Remote Sensing Techniques and Applications

ONE-CREDIT COURSES

CIVIL ENGINEERING

19CF01	Safety in Construction
19CF02	Concepts of Smart City

ENGLISH

19GF01	Interpersonal and Organizational Communication
19GF02	Human Values Through Literature

HUMANITIES

19OFA1	Export – Import practices
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19OFA2 Insurance - Concepts and Practices
19OFA3 Public Finance
19OFA4 Security Analysis and Portfolio Management

LANGUAGE ELECTIVES

19G001 Communication Skills for Engineers
19G002 German- Level A1.1
19G003 French Language Level 1
19G004 Basic Japanese

Summary of Credit Distribution

BE CIVIL ENGINEERING										
S. No	Course Category	Credits Per Semester								Total Credits
		1	2	3	4	5	6	7	8	
1	HS	3	2	3	0	0	0	0	0	8
2	BS	12	10	3	3	0	0	0	0	28
3	ES	5	7	8	8	0	0	0	0	28
4	PC	0	0	8	11	17	22	0	0	58
5	PE	0	0	0	0	0	0	12	6	18
6	OE	0	0	0	0	3	0	3	0	6
7	EEC	0	0+2 [£]	0	1	3	3	6	4	19
8	MC	-	-	-	-	-	-	-	-	-
	TOTAL	20	19+2[£]	22	23	23	25	21	10	165

£ Summer Term Course(s)

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