

B.E.-Civil Engineering
Total Credits to be earned for the award of the Degree: 160
Full Time Curriculum (R2019)

First Year –First Semester

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
Theory Course									
1901MA101	Engineering Mathematics I	3	2	0	4	40	60	100	BS
1901PH101	Introduction to mechanics	3	0	3	4	50	50	100	BS
1901GEX01	Basic Electrical & Electronics Engineering	3	0	0	3	40	60	100	ES
1901GEX02	Engineering Graphics	2	0	2	3	50	50	100	ES
Laboratory Course									
1901GEX51	CAD Lab	0	0	2	1	50	50	100	ES
1901PHX51	Engineering Physics Laboratory	0	0	2	1	50	50	100	BS
1901GEX53	Basic Electrical & Electronics Engineering Lab	0	0	2	1	50	50	100	ES
1901HS151	Communication skill	0	0	2	1	100	0	100	HSS
Audit Course									
1901GE151	Engineering Intelligence I	0	0	2	1	100	0	100	HSS

First Year – Second Semester

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
Theory Course									
1901MA201	Engineering Mathematics II	3	2	0	4	40	60	100	BS
1901CH201	Water Technology and Green Chemistry	3	0	0	3	40	60	100	BS
1901GEX03	Programming for Problem Solving	3	0	0	3	40	60	100	ES
1901ENX01	English for Engineers	2	0	0	2	40	60	100	HSS
1901GE201	Engineering Exploration	2	0	0	2	100	0	100	ES
Laboratory Course									
1901CHX51	Engineering Chemistry Laboratory	0	0	2	1	50	50	100	BS
1901GE553	Basic workshop	0	0	2	1	50	50	100	ES
1901GEX52	Computer programming lab	0	0	2	1	50	50	100	ES
1901HSX51	Communication skill lab	0	0	2	1	50	50	100	HSS
Audit Course									
1901GE252	Engineering Intelligence II	0	0	2	1	100	0	100	HSS

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Second Year – Third Semester

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
Theory Course									
1902ME301	Engineering Mechanics	3	0	0	3	40	60	100	ES
1902CE301	Engineering Geology	3	0	0	3	40	60	100	PC
1902CE302	Fluid Mechanics and Machines	3	0	0	3	40	60	100	ES
1902CE303	Strength of Materials	3	0	0	3	40	60	100	ES
1902CE304	Engineering Surveying	3	0	0	3	40	60	100	PC
Laboratory Course									
1902CE351	Surveying Lab	0	0	2	1	50	50	100	PC
1902CE352	Strength of Materials Lab	0	0	2	1	50	50	100	ES
1902CE353	Fluid Mechanics and Machines Lab	0	0	2	1	50	50	100	ES
1904GE351	Life Skills: Verbal Ability	0	0	2	1	100	-	100	HSS
Audit Course									
1901MCX01	Environmental Science	2	0	0	0	100	0	100	MC

Second Year – Fourth Semester

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
Theory Course									
1901MA401	Engineering Mathematics III	3	2	0	4	40	60	100	BS
1902CE401	Building Materials and Management	3	0	0	3	40	60	100	PC
1902CE402	Soil Mechanics	3	0	0	3	40	60	100	PC
1902CE403	Transportation Engineering	3	0	0	3	40	60	100	PC
1902CE404	Concrete Technology	3	0	0	3	40	60	100	PC
1901CE405	Biology For Engineers	3	0	0	3	40	60	100	BS
Laboratory Course									
1902CE451	Computer Aided Building and Drawing Lab	0	0	2	1	50	50	100	PC
1902CE452	Soil Mechanics Lab	0	0	2	1	50	50	100	PC
1904GE451	Life Skills: Verbal Reasoning	0	0	2	1	100	-	100	HSS
Audit Course									
1902MCX02	Constitution Of India	2	0	0	0	100	0	100	MC

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Third Year – Fifth Semester

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
Theory Course									
1902CE501	Structural Analysis I	3	0	0	3	40	60	100	PC
1902CE502	Design of RCC Structures I	3	0	0	3	40	60	100	PC
1902CE503	Design of Steel Structures	3	0	0	3	40	60	100	PC
1902CE504	Foundation Engineering	3	0	0	3	40	60	100	PC
1902CE505	Environmental Engineering	3	0	0	3	40	60	100	PC
1903CE001	Pre-Fabricated Structures	3	0	0	3	40	60	100	PE
Laboratory Course									
1902CE551	Concrete and Highway Engineering Lab	0	0	2	1	50	50	100	PC
1902CE552	Environmental Engineering Lab	0	0	2	1	50	50	100	PC
1902CE553	Mini Project	0	0	2	1	50	50	100	EEC
1904GE551	Life Skill III - Aptitude – I	0	0	2	1	100	-	100	HSS
Audit Course									
1902MCX03	Essence of Indian Traditional Knowledge	2	0	0	0	100	0	100	MC

Third Year – Sixth Semester

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
Theory Course									
1902CE601	Structural Analysis II	3	0	0	3	40	60	100	PC
1902CE602	Design of RCC Structures II	3	0	0	3	40	60	100	PC
1902CE603	Hydrology And Water Resources Engineering	3	0	0	3	40	60	100	PC
1903CE031	Natural Disaster and Mitigation Management	3	0	0	3	40	60	100	PE
1902CE032	Global Warming and Climate Change (Open Elective)	3	0	0	3	40	60	100	PE
1903CE007	Remote Sensing and GIS (PC Elective)	3	0	0	3	40	60	100	PCE
1901MGX01	Total Quality Management (HSS Elective)	3	0	0	3	40	60	100	HSSE
Laboratory Course									
1902CE651	Computer Aided Design and Drafting Lab	0	0	2	1	50	50	100	PC
1904GE651	Life Skill: Aptitude – II & GD	0	0	2	1	100	-	100	HSS

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Final Year – Seventh Semester

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
Theory Course									
1902CE701	Estimation & Quantity Surveying	3	0	0	3	40	60	100	PC
1901MGX07	Universal Human Values and Ethics	3	0	0	3	40	60	100	HSS
1903CE009	Repair And Rehabilitation of Structures (PC Elective)	3	0	0	3	40	60	100	PEC
1903CE033	Water Pollution and Management (Open Elective)	3	0	0	3	40	60	100	POE
1901HS002	Intellectual Property Rights for engineers (HSS Elective)	3	0	0	3	40	60	100	HSSE
1901HS006	Design Thinking for Innovation (HSS Elective)	3	0	0	3	40	60	100	HSSE
Laboratory Course									
1904GE751	Life skills - Comprehensive Viva	2	0	0	2	100	-	100	EEC
1902CE751	In-Plant Training / Internship Presentation	0	0	2	1	50	50	100	EEC

Final Year – Eighth Semester

Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CA	ES	Total	
Theory Course									
1902CE015	Pre-Stressed Concrete (PC Elective)	3	0	0	3	40	60	100	PCE
1902CE019	Coastal Zone Management (PC Elective)	3	0	0	3	40	60	100	PCE
Laboratory Course									
1902CE851	Project Work	0	0	14	7	50	50	100	EEC


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Humanities, Social Science and Management Electives

S.No.	Course Code	Name of the Course	Number of Hours / Week			Credit
			L	T	P	
Elective 1						
1.	1901MGX01	Total Quality Management	3	-	-	3
2.	1901MGX02	Project Management and Finance	3	-	-	3
3.	1901MGX03	Operations Research	3	-	-	3
4.	1901MGX04	Principles of Management	3	-	-	3
Elective 2						
1.	1901MGX05	Innovation & Entrepreneurship Fundamentals	3	-	-	3
2.	1901MGX06	Intellectual Property Rights for Engineers	3	-	-	3
3.	1901MGX07	Startup Entrepreneurship	3	-	-	3
4.	1901MGX08	Business Model Innovation	3	-	-	3
Elective 3						
1.	1901MGX09	Social Entrepreneurship	3	-	-	3
2.	1901MGX10	Design Thinking for Innovation	3	-	-	3
3.	1901MGX11	Indian Patent Law & Patent Drafting	3	-	-	3
4.	1901MGX12	IP Management & Commercialization	3	-	-	3
HSS Core						
1	1901MGX13	Universal Human Values and Ethics	3	-	-	3

Professional Core Electives

Sl. No.	Course Code	Name of the Course	Number of Hours / Week			Credit
			L	T	P	
Electives I						
1	1903CE001	Pre-Fabricated Structures	3	ATTESTED		3
2	1903CE002	Ground Improvement Techniques	3			3
3.	1903CE003	Soil Dynamics and Machine Foundation				

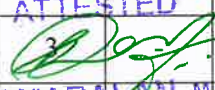
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4	1903CE004	Advanced Geotechnical Engineering	3	-	-	3
		Electives II	3	-	-	3
1	1903CE005	Industrial Pollution Prevention and Cleaner Production	3	-	-	3
2	1903CE006	Solid Waste Management	3	-	-	3
3	1903CE007	Remote Sensing And GIS	3	-	-	3
4	1903CE008	Air Pollution Control and Management	3	-	-	3
		Electives III				
1	1903CE009	Repair And Rehabilitation of Structures	3	-	-	3
2	1903CE010	Construction Project Management	3	-	-	3
3	1903CE011	Architecture And Town Planning	3	-	-	3
4	1903CE012	Traffic Engineering and Management	3	-	-	3
		Elective IV	3	-	-	3
1	1903CE013	Bridge Engineering	3	-	-	3
2	1903CE014	Finite Element Methods	3	-	-	3
3	1903CE015	Pre-Stressed Concrete				
4	1903CE016	Advanced Structural Analysis				
		Elective V	3	-	-	3
1	1903CE017	Ground water Engineering	3	-	-	3
2	1903CE018	Material Science and metallurgy	3	-	-	3
3	1903CE019	Coastal Zone Management	3	-	-	3
4	1903CE020	Environmental Impact Assessment	3	-	-	3

Open Electives

s. No.	Course Code	Name of the Course	Number of Hours / Week			Credit
			L	T	P	
		THEORY				
1.	1903CE031	Natural Disaster and Mitigation Management	3	-	-	3
2.	1903CE032	Global Warming and Climate Change	3	-	-	3
3.	1903CE033	Water Pollution and Its Management	3	-	-	3
4.	1903CE034	Energy Engineering Technology and Management	3	-	-	3
5.	1903CE035	Renewable Sources of Energy	3	-	-	3
6.	1903CE036	Global Position System (GPS)	3	-	-	3
7.	1903CE037	Soil Chemistry and Its Impact	3	-	-	3
8.	1903CE038	Introduction to Transport Processes	3	-	-	3

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