

**TWO YEAR M. TECH. PROGRAMME COURSE STRUCTURE FOR SESSION-
2018-2019**

ENVIRONMENTAL ENGINEERING			
SEMESTER I			
Course Code	Subject Title	Credits	Contact Hours
14M31CE111	Statistics for Environmental Engineers	03	03
14M31CE113	Water Supply and Treatment	03	03
14M31CE114	EIA and Risk Management	03	03
14M31CE115	Solid Waste Management	03	03
14M31CE116	Wastewater Treatment	03	03
	Elective - I	03	03
14M37CE171	Environmental Engineering Lab	02	04
	Total	20	22
SEMESTER II			
14M31CE211	Air and Noise Pollution Control	03	03
14M31CE112	Simulation and Modelling	03	03
14M31CE213	Industrial Wastewater Treatment	03	03
14M31CE214	Process Design in Environmental Engineering	03	03
	Elective-II	03	03
	Elective-III	03	03
14M37CE276	Software Lab.	02	04
	Total	20	22
SEMESTER III			
15M39CE391	Seminar	02	-
15M39CE392	Project Part - I	18	36
	Total	20	36
SEMESTER IV			
16M39CE492	Project Part - II	20	40
	Total	20	40
LIST OF ELECTIVES			
	Course Code	Course Name	
Electives - I	17M1CE111	Environmental Chemistry and Microbiology	
	16M3WCE331	Environmental Law and Policy	
	17M1CE113	Environmental Health and Safety	
Electives - II	14M31CE215	Surface Water Quality Management	
	14M31CE216	Hazardous Waste Management	
	17M21CE211	Environmental Nanotechnology	
Electives - III	15M3WCE312	Environmental Geotechnique	
	17M21CE212	Environmental Management	
	17M21CE213	Independent Study	

STRUCTURAL ENGINEERING			
SEMESTER I			
Subject Code	Subject Title	Credits	Contact Hours
11M1WCE111	Advanced Structural Analysis	3	3
11M1WCE112	Structural Dynamics	3	3
11M1WCE113	Design of Reinforced Concrete Structures	3	3
	Elective I	3	3
13M1WCE131	Finite Element Methods	3	3
11M1WCE713	Concrete Structures Laboratory	2	4
	Total	17	19
SEMESTER II			
11M1WCE211	Solid Mechanics in Structural Engineering	3	3
	Elective II	3	3
11M1WCE213	Earthquake Resistant Design of Structures	3	3
11M1WCE214	Theory of Plates and Shells	3	3
12M1WCE231	Prestress Concrete Structures	3	3
12M1WCE271	CAD Laboratory	2	4
	Total	17	19
SEMESTER III			
12M19CE391	Seminar	02	-
12M19CE392	Project Part-I	18	36
	Total	20	36
SEMESTER IV			
12M19CE492	Project Part II	22	44
	Total	22	44
LIST OF ELECTIVES			
	Course Code	Course Name	
Elective I	11M1WCE114	Modelling, Simulation and Computer Applications	
	11M1WCE332	Advances in Construction Materials	
	12M1WCE332	Repair and Retrofitting of Structures	
Elective II	11M1WCE212	Design of Steel Structures	
	11M1WCE133	Bridge Engineering	
	10M13CE432	Construction Methods Improvement	

CONSTRUCTION MANAGEMENT			
SEMESTER I			
Subject Code	Subject Title	Total Credits	Contact Hours
10M11CE111	Construction Techniques	3	3
10M11CE112	Estimating & Costing	3	3
10M11CE113	Construction Planning and Control	3	3
	Elective I	3	3
10M11CE115	Mechanical and Electrical Systems in Building	3	3
10M19CE191	Construction Capstone Project	2	4
	Total	17	19
SEMESTER II			
10M11CE211	Construction Contracts and Laws	3	3
	Elective II	3	3
10M11CE213	Construction Cost Analysis	3	3
10M11CE214	Construction Financial Management	3	3
10M11CE215	Sustainable Design and Construction	3	3
10M19CE291	Construction Capstone Project	2	4
	Total	17	19
SEMESTER III			
12M19CE391	Seminar	02	-
12M19CE392	Project Part-I	18	36
	Total	20	36
SEMESTER IV			
12M19CE492	Project Part II	22	44
	Total	22	44
LIST OF ELECTIVES			
	Course Code	Course Name	
Elective I	10M11CE114	Construction Safety and Health	
	12M1WCE332	Repair and Retrofitting of Structures	
	11M1WCE332	Advances in Construction Materials	
Elective II	10M11CE212	Heavy/Civil Construction Equipment, Methods, and Management	
	10M13CE334	Principles of Affordable Housing	
	10M13CE432	Construction Methods Improvement	