Master of Civil Engineering

FIRST SEMESTER

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
Departmental / Specialization Basket	Subject Code	Specialization Subject Names Structural Engineering (SE) Soil Mechanics and Foundation Engineering (SMFE) Environmental Engineering (EE)	Lecture	Sessional	Examination	Sessional	
Paper-I	PG / CE / T / 111A PG / CE / T / 111B PG / CE / T / 111C PG / CE / T / 111D	Dynamics of Structures (SE)Wind Analysis and Design of Structures (SE)Advanced Foundation Engineering (SMFE)Water Supply and Treatment (EE)	3		100		3
Paper-II	PG / CE / T/ 112A PG / CE / T/ 112B PG / CE / T/ 112C PG / CE / T/ 112D PG / CE / T/ 112E	Concrete Science and Technology (SE) Repair and Rehabilitation of Structures (SE) Advanced Theory of Soil Mechanics(SMFE) Rock Mechanics and Tunneling (SMFE) Wastewater Treatment and Disposal (EE)	3		100		3
Paper-III	PG / CE / T/ 113A PG / CE / T/ 113B PG / CE / T/ 113C PG / CE / T/ 113D PG / CE / T/ 113E PG / CE / T/ 113E	Advanced Structural Design (SE)Bridge Engineering (SE)Slope Stability and Earthen Dam (SMFE)Geotechnics for Highway Engineering (SMFE)Seismic Design of Foundation (SMFE)Solid Waste Management (EE)	3		100		3

Note: The students have to select 3 subjects from the departmental/ specialization basket, i.e. one subject each from the list given in the baskets of Paper-I, Paper-II and Paper-III

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
Inter- Disciplinary Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-IV	PG / CE / T/ 114A	Theory of Elasticity and Elastic Stability	3		100		3
	PG / CE / T/ 114B	Remote Sensing and its Application					
	PG / CE / T/ 114C	Environmental Impact Assessment					
Paper-V	PG / CE / T/ 115A	Computer Methods and Finite Element Analysis	3		100		3
	PG / CE / T/ 115B	Sub Soil Investigation					
	PG / CE / T/ 115C	Environmental Pollution and Management					
Paper-VI	PG / CE / T / 116A	Theory of Plates and Shells	3		100		3
	PG / CE / T / 116B	Advanced Hydrology and					
		Groundwater					
	PG / CE / T / 116C	Environmental Management and					
		Ecology					
	PG / CE / T / 116D	Water Pollution and Control					
	PG / CE / T / 116E	Advanced mathematics					
Note: The st given in the	udents have to selec baskets of Paper-I	et 3 subjects from the inter-depar V, Paper-V and Paper-VI	tmental b	asket, i.e. o	ne subject each	from the li	st
Sessional Courses							
Sessional 1	PG / CE / S / 111	Laboratory		4		100	3
Sessional 2	PG / CE / S / 112	Assignment		3		100	3
			18	7	600	200	24

Total Periods/Week = 25 Total Marks = 800

SECOND SEMESTER

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
Departmental / Specialization Basket	Subject Code	Specialization Subject Names Structural Engineering (SE) Soil Mechanics and Foundation Engineering (SMFE) Environmental Engineering (EE)	Lecture	Sessional	Examination	Sessional	
Paper-VII	PG / CE / T/ 127A	Analysis and Design of Tall Structures (SE)	3		100		3
	PG / CE / T/ 127B	Earthquake Analysis and Design of Structures (SE)					
	PG / CE / T/ 127C	Soil Dynamics and machine Foundation (SMFE)	-				
	PG / CE / T/ 127D	Instrumentation and Case Histories in Geotechnical engineering (SMFE)					
	PG / CE / T/ 127E	Air Pollution and Control (EE)					
	PG / CE / T/ 127F	Noise Pollution (EE)					
Paper-VIII	PG / CE / T/ 128A	Pre cast and Pre stressed Concrete Structures (SE)	3		100		3
	PG / CE / T/ 128B	Advanced Concrete Science and Technology (SE)					
	PG / CE / T/ 128C	Retaining Structures and Underground Construction (SMFE)					
	PG / CE / T/ 128D	Analytical Geo mechanics(SMFE)					
	PG / CE / T/ 128E	Process Design in Environmental Engineering (EE)					
	PG / CE / T/ 128F	Hydraulics for Environmental Process Design (EE)					
Paper-IX	PG / CE / T/ 129A	Offshore Structures (SE)	3		100		3
-	PG / CE / T/ 129B	Plastic and Limit State Design of Structures (SE)					
	PG / CE / T/ 129C	Ground Improvement Techniques(SMFE)					
	PG / CE / T/ 129D	Environmental Geo technique (SMFE)					
	PG / CE / T/ 129E	Industrial Waste Water treatment (EE)					
	PG / CE / T/ 129F	Sanitary Microbiology and Biochemistry(EE)					

Note: The students have to select 3 subjects from the departmental/ specialization basket, i.e. one subject each from the list given in the baskets of Paper-VIII, Paper-VIII and Paper-IX

Inter- Disciplinary Basket	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-X	PG / CE / T/ 1210A	Advanced computer Methods and Finite Element Analysis	3		100		3
	PG / CE / T/ 1210B	Structural Optimization					
	PG / CE / T/ 1210C	Hazardous Waste Management	_				
	PG / CE / T/ 1210D	Coastal and Offshore Geo technology					
Note: The s	tudents have the free	edom to choose one subject from	the list ur	nder Paper-	X.		
Sessional Courses							
Courses							
Sessional 1	PG / CE / S / 121	Term Paper Leading to Thesis		3		100	3
Sessional 2	PG / CE / S / 122	Seminar		3		100	3
		•	12	6	400	200	18

Total Periods/Week = 18 Total Marks = 600

THIRD and FOURTH SEMESTER

Courses							
1	PG / CE / TH / 21	Thesis Work		16		300	12
2	PG / CE / VV/ 22	Viva-Voce on Thesis				100	
				16		400	12
Total Periods/Week = 16 Total Marks = 400							