Department of Civil Engineering

1. Post Graduate programme(s) in the Department:

i. M. Tech: Structural Engineering.

Hydraulic Engineering.

Soil Mechanics and Foundation Engineering.

ii. Ph.D: Ph.D. in Civil Engineering.

2. Programme of study for Masters:

i. M. Tech Degree (Structural Engineering)

Sl. No.	Course No.		Name of the Course	Credit	s Hrs		
Core co	Core courses						
1.	TCE-602 Theory of I		Clasticity		3(3-1-0)		
2.	TCE·606	Experiment	tal Stress Analysis		3(2-0-1)		
3.	TCE-609 Theory of		Plates & Cells		4(4-1-0)		
4.	TCE-621 Limit State		Design of Concrete Structu	ıres	3(2-1-0)		
5.	TCE-630 Matrix		ethods In Structural Analysis		3(3-1-0)		
6.	6. TCE-600 Seminar				1		
Basic Su	upporting Cour						
1.	BPM602	Special Fur	nctions & Integral Equation		2(2-1-0)		
2.	BPM-607 Transforma		ations & Calculus of Variati	ons	2(2-1-0)		
Credits for Optional/Minor Courses					09		
M. Tech Thesis							
1.	1. TCE-690				20		
				Total	50		

ii. M. Tech Degree (Hydraulic Engineering)

Sl. No.	Course No.		Name of the Course	Credits Hrs			
Core co	Core courses						
1.	TCE-541	Hydraulic l	Engg. Laboratory	1(0-0-1)			
2.	TCE-542	Open Chan	nel Hydraulics	4(3-0-1)			
3.	TCE-543	Hydromech	nanics	4(3-0-1)			
4.	TCE-544	Advanced 1	Fluid Mechanics	4(3-0-1)			
5.	TCE-550	Hydrologic	Analysis And Design	4(3-0-1)			
6.	TCE-600	Seminar		1			
Basic Supporting Courses							
1.	BPM602	Special Fur	nctions & Integral Equation	2(2-1-0)			
2.	BPM-607	Transforma	ations & Calculus of Variations	2(2-1-0)			
Credits	for Optional/N	08					
M. Tech Thesis							
1.	TCE-690			20			

Total	50
I Utal	30

iii. M. Tech Degree (Soil Mechanics and Foundation Engineering)

Sl. No.	Course No.		Name of the Course	Credit	s Hrs		
Core co	Core courses						
1.	TCE-570	-570 Strength Behaviour of Soils			3(2-0-0)		
2.	TCE-571	Foundation	n Engineering		3(3-0-0)		
3.	TCE-572	Soil Dynan	nics and Machine Foundatio	ns	3(3-0-0)		
4.	TCE-574	Earth Retai	ining Structures		3(3-0-0)		
5.	TCE-575	Soil Engg.	Laboratory		3(1-0-2)		
6.	TCE-600	CCE-600 Seminar			1		
Basic Su	upporting Cour						
1.	BPM602	M602 Special Functions & Integral Equation		2(2-1-0)			
2.	BPM-607 Transformations & Calculus of Variations		2(2-1-0)				
Credits for Optional/Minor Courses					10		
M. Tech Thesis							
1.	1. TCE-690				20		
				Total	50		

3. Programme of study for Ph.D:

Ph.D. Programme in Civil Engineering

Core courses:

Sl.	Course	Course Title	Credit
No	No.		Hours
1.	TCE-701	Finite Element Methods in structural Mechanics	2(2-1-0)
2.	TCE-738	Optimization Methods	3(2-0-1x3)
3.	TCE-739	Engineering Mechanics	3(2-0-1x3)
4.	TCE-788	Doctoral Seminar I	1(0-0-1x3)
5.	TCE-789	Doctoral Seminar II	1(0-0-1x3)
6.	TCE-737	Ground Improvement Techniques	2(2-0-0)
		Total	12 Credits

Basic supporting courses:

Sl.	Course	Course Title	Credit
No	No.		Hours
1.	BPM-621	Numerical Techniques for Computers	3(3-2-0)
		Total	3 Credits

Optional Courses: 05 credits

05 credits of relevant courses from the P.G. courses of any department.

	Sl.	Course	Course Title	Credit Hours
	No.	No.		
	1	BHS-652	Research Methodology-I	1(1-0-0)
	2	BPS-653	Research Methodology-II	3(2-0-1x3)
Γ C	E- 3 601		Special Problem	1

Minor Package: 10 credits

TCE-790 Ph.D Thesis/Research 45 credits

Total Course Credits : 75

credits