

GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY (A)
NH-16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDRY
DEPARTMENT OF CIVIL ENGINEERING

GR17 COURSE STRUCTURE OF M.TECH STRUCTURAL ENGINEERING

I Year - I SEMESTER

STRUCTURE							
S. No	Subject	L	P	Credits	Max. Marks - 100		
					Internal	External	Total
1	Advanced Mathematics	4	-	3	40	60	100
2	Theory of Elasticity	4	-	3	40	60	100
3	Matrix Analysis of Structures	4	-	3	40	60	100
4	Structural Dynamics	4	-	3	40	60	100
5	Elective-I	4	-	3	40	60	100
	a) Experimental Stress Analysis						
	b) Sub - Structure Design						
	c) Structural Optimization						
6	Elective-II	4		3	40	60	100
	a) Repair and Rehabilitation of Structures						
	b) Analysis and Design of Tall Buildings						
	c) Plastic Analysis Design						
7	Advanced Structural Engineering Laboratory	-	3	2			
	Total Credits			20			

I Year - II SEMESTER

STRUCTURE							
S. No	Subject	L	P	Credits	Max. Marks - 100		
					Internal	External	Total
1	Finite Element Method	4		3	40	60	100
2	Earthquake Resistant Design	4		3	40	60	100
3	Stability of Structures	4		3	40	60	100
4	Theory of Plates & Shells	4		3	40	60	100
5	Elective-III	4		3	40	60	100
	a) Advanced Pre-Stressed Concrete						
	b) Mechanics of Composite Materials						
	c) Fracture Mechanics						
6	Elective-IV	4		3	40	60	100

	a) Industrial Structures					
	b) Bridge Engineering					
	c) Earth Retaining Structures					
7	CAD Laboratory	-	3	2		
	Total Credits			20		

III SEMESTER

STRUCTURE				
S. No	Subject	L	P	Credits
1	Comprehensive Viva - Voce	-	-	2
2	Seminar - I	-	-	2
3	Project Work Part - I	-	-	16
	Total Credits			20

IV SEMESTER

STRUCTURE				
S. No	Subject	L	P	Credits
1	Seminar - II	-	-	2
2	Project Work Part - II	-	-	18
	Total Credits			20