



MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act, 1956

M.Tech. (Structural Engineering) – Full Time w.e.f. 2020-21

R-20

I YEAR I - SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	2012011	Advanced Structural Analysis	3	0	0	3
2	2012012	Theory of Elasticity	3	0	0	3
3	2012041	1.Theory of Thin Plates & Shells	3	0	0	3
	2012042	2.Theory and Applications of Cement Composites				
	2012043	3.Theory of Structural Stability				
4	2012044	1.Advanced Reinforced Concrete Design	3	0	0	3
	2012045	2.Structural Health Monitoring				
	2012046	3.Structural Optimization				
5	2012071	Numerical Analysis Lab	0	0	3	2
6	2012072	Advanced Concrete Technology Lab	0	0	3	2
7		Advanced Concrete Technology	2	0	0	2
8	Audit 1	Audit Course -1	2	0	0	0
		Total Credits	16	0	6	18

I YEAR II - SEMESTER

S.No	Course Code	Course Title	L	T	P	Credits
1	2022013	FEM in Structural Engineering	3	0	0	3
2	2022014	Structural Dynamics	3	0	0	3
3	2022047	1. Advanced Steel Design	3	0	0	3
	2022048	2. Design of Formwork				
	2022049	3. Design of High Rise Buildings				
	2022050	4. Design of Masonry Structures				
4	2022051	1. Design of Prestressed Concrete Structures	3	0	0	3
	2022052	2. Advanced Design of Foundations				
	2022053	3. Soil Structure Interaction				
	2022054	4. Design of Bridges				
5	2022073	Advanced Structural Engineering Lab	0	0	3	2
6	2022074	Structural Design Lab	0	0	3	2
7	2022015	Mini Project & Seminar	0	0	4	2
8	Audit 2	Audit Course-2	2	0	0	0
		Total Credits	14	0	10	18

R-20**II YEAR I - SEMESTER**

S. No.	Course Code	Course Title	L	T	P/D	Credits
1	2032055	1. Earthquake Resistance Design of Buildings	3	0	0	3
	2032056	2. Industrial Structures				
	2032057	3. Fracture Mechanics of Concrete Structures				
2	2032001	1. Construction Management	3	0	0	3
	2032002	2. Prefabricated Structures				
	2032003	3. Artificial Intelligence: Techniques				
3	Dissertation	Dissertation Phase –I	0	0	20	10
		Total Credits	6	0	0	16

II YEAR II - SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	Dissertation	Dissertation Phase-II	0	0	32	16
		Total Credits	-	-	--	16

Total Credit for the Programme PG Credits: = 18+ 18+16+16 = 68

Audit Course 1 &2

1. English for research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Research Methodology and IPR