

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 Section2(f) & 12(B)of the UGC act, 1958

M. TECH - STRUCTURAL ENGINEERING

R19 - COURSE STRUCTURE

I YEAR I – SEMESTER

Course Code	Course Title	L	T	P	Credits
1912011	Theory of Elasticity	3	0	0	3
1912012	Advanced Structural Analysis	3	0	0	3
	Professional Elective I				3
1912041	1. Theory of Plates and Shells	3	0	0	
1912042	2. Theory and Applications of Cement Composites] 3			
1912043	3. Theory of Structural Stability				
	Professional Elective II		0	0	3
1912044	1. Advanced Reinforced Concrete Design	3			
1912045	2. Advanced foundation Design of reinforced concrete] 3			
1912046	3. Numerical Methods in Structural Engineering				
1912071	Numerical Analysis Lab	0	0	4	2
1912072	Advanced Concrete Technology Lab	0	0	4	2
	Research Methodology and IPR	2	0	0	2
Audit - I	Audit Course - I	2	0	0	0
	Total Credits	16	0	8	18

I YEAR II – SEMESTER

Course Code	Course Title	L	Т	P	Credits
1922013	FEM in Structural Engineering	3	0	0	3
1922014	Structural Dynamics	3	0	0	3
	Professional Elective III				
1922047	1. Advanced Steel Design	3	0	0	3
1922048	2. Design of High-Rise Buildings	3			
1922049	3. Design of Masonry Structures				
	Professional Elective IV		0	0	3
1922050	1. Soil Structure Interaction.	3			
1922051	2. Design of Prestressed concrete Structures	3			
1922052	3. Structural Optimization				
1922073	Advanced Structural Engineering Lab	0	0	4	2
1922074	Structural Design Lab	0	0	4	2
1922015	Mini Project with Seminar	0	0	4	2
Audit - II	Audit Course- II	2	0	0	0
	Total Credits	14	0	12	18



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II YEAR I – SEMESTER

Course Code	Course Title	L	T	P	Credits
	Professional Elective V			0	3
1932053	1. Earthquake Resistance Design of Buildings	3	0		
1932054	2. Industrial structures] 3			
1932055	3. Bridge Engineering				
	Open Elective - I		0	0	3
1932001	1. Numerical methods				
1932002	2. Construction Management				
1932003	3. Finite Element Methods	3			
1932004	4. Artificial Intelligence: Techniques				
1932005	5. Operation Research				
1932006	6. Industrial Safety				
1932016	Dissertation Work Review - II	0	0	12	6
	Total	6	0	12	12

II YEAR II – SEMESTER

Course Code	Course Title	L	Т	P	Credits
1942017	Dissertation Work Review - III	0	0	12	6
1942018	Dissertation Viva-Voce	0	0	28	14
	Total	0	0	40	20

Audit Course I & II:

- 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. Stress Management by yoga
- 8. Personality Development Through Life Enlightenment Skills