

**GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY (A) NH-16, CHAITANYA
KNOWLEDGE CITY, RAJAHMUNDY DEPARTMENT OF CIVIL ENGINEERING
GRMT20 COURSE STRUCTURE OF M.TECH STRUCTURAL ENGINEERING**

I

Year - I SEMESTER

S.No	Course code	Course Name	Category	L	T	P	C	Marks	
1	20211101	Theory of Elasticity	Core	3	0	--	3	100	
2	20211102	Structural Dynamics	Core	3	0	--	3	100	
3	20211163	Elective I	Elective	3	0	--	3	100	
	20211163A	a) Advanced Matrix Analysis of Structures							
	20211163B	b) Analytical & Numerical Methods for Structural Engineering							
	20211163C	c) Design of RC Foundations							
4	20211164	Program Elective II	Elective	3	0	--	3	100	
	20211164A	a) Bridge Engineering							
	202111164B	b) Repair and Rehabilitation of Structures							
	202111164C	c) Advanced Reinforced Concrete Design							
5	202111188	Research Methodology		2	0	0	2	100	
6	202111111	Advanced Concrete Technology Laboratory	Lab	-	--	4	2	100	
7	202111112	Advanced Structural Engineering Laboratory	Lab	-	--	4	2	100	
8	202111191	Audit Course -1	Audit	2	0	0	0		
	Total Credits /Marks							18	700

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I Year – II SEMESTER

S.No.		Course Name	Category	L	T	P	C	Marks
1	20211201	Finite Element Methods in Structural Engineering	Core	3	0	--	3	100
2	20211202	Theory of Plates and Shells	Core	3	0	--	3	100
3	20211263	Elective III	Elective	3	0	--	3	100
	20211263A	a) Stability of Structures						
	20211263B	b) Advanced Steel Design						
4	20211263C	c) Analysis of Offshore Structures						
	20211264	Elective IV	Elective	3	0	--	3	100
	20211264A	a) Earthquake Resistant Design of Buildings						
	20211264B	b) Precast and Prefabricated Structures						
5	202111211	Computer Aided Design Laboratory		--	--	4	2	100
	202111212	Structural Design laboratory						
7	202111221	Mini Project With Seminar		0	0	4	2	100
8	202111291	Audit Course -2	Audit	2	0	0	0	
Total Credits / Marks							18	700

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II Year – I SEMESTER

S.No.	Course code	Course Name	Category	L	T	P	C	Marks
1	20211361	Elective 5: Program Elective /MOOCS	Elective	3	0	--	3	100
	20211361A	a) Design of Prestressed Concrete structures						
	20211361B	b) Structural Health Monitoring						
	20211361C	c) Industrial Structures						
2	20211362	Open Elective	Elective	3	0	--	3	100
	20211362A	1. MOOCs-2 (NPTEL/SWAYAM)- Any 12 Week Course on Engineering/ Management/ Mathematics offered by other than parent department						
	20211362B	2. Course offered by other departments in the college						
3	20211341	Dissertation Phase-I / Industrial Project (To be continued and Evaluated next Semester)*		--	--	20	10	
		Total Credits / Marks						16 200

* Evaluated and displayed in 4th Semester marks list

** Students Going for Industrial Project / Thesis will complete these courses through MOOCS

II Year-II Semester

Sl No.	Course code	Course Name	Category	L	T	P	C	Marks
1	20211441	Project/Dissertation Phase II (Continued from III Semester)		0	0	32	16	100
Total Credits / Marks								16 100

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. Stress Management by Yoga
8. Personality Development through Life Enlightenment Skills.