

**M. Tech - Remote Sensing - R19 - Course Structure  
SEMESTER I**

S.No	Category	Course Name	L	T	P	C	Marks
1	Core 1	Remote Sensing	3	0	--	3	100
2	Core 2	G I S	3	0	--	3	100
3	Elective I	a) Photogrammetry	3	0	--	3	100
		b) Earth Systems					
		c) Water Resources Management					
4	Elective II	a) Object Oriented Programming	3	0	--	3	100
		b) Principles of GeoDatabase					
		c) Geo-Statistical Methods					
5	Lab - 1	Remote Sensing Laboratory	-	--	4	2	100
6	Lab - 2	G I S Lab	-	--	4	2	100
7	Core	Research Methodology and IPR	2	0	0	2	100
8	Audit – 1	Audit Course –1	2	0	0	0	100
<b>TOTAL</b>						<b>18</b>	<b>800</b>

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SEMESTER II**

S.No	Category	Course Name	L	T	P	C	Marks
1	Core 3	RS & GIS Applications in ES	3	0	--	3	100
2	Core 4	Satellite Image Processing	3	0	--	3	100
3	Elective III	a) GNSS	3	0	--	3	100
		b) Geospatial Data Processing and Modeling					
		c) Climate Systems					
4	Elective IV	a) Advanced Remote Sensing	3	0	--	3	100
		b) Web & Mobile GIS					
		c) Geo-Spatial applications for Coastal Zone Management					
5	Lab - 3	Satellite Image Processing Lab	-	--	4	2	100
6	Lab - 4	GeoSpatial Simulation Lab	-	--	4	2	100
7	Core	Mini Project With Seminar	0	0	4	2	100
8	Audit – 2	Audit Course –2	2	0	0	0	100
<b>TOTAL</b>						<b>18</b>	<b>800</b>

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### SEMESTER III \*\*

S.No	Category	Course Name	L	T	P	C	Marks
1	Elective-V	a) MOOCS	3	0	--	3	100
		b) Soft Computing Techniques					
		c) Environmental Impact Assessment and Management using RS & GIS					
		d) Urban & Regional Planning using Geospatial technologies					
2	Open Elective	1. Business Analytics	3	0	--	3	100
		2. Industrial Safety					
		3. Operations Research					
		4. Cost Management of Engineering Projects					
		5. Composite Materials					
		6. Waste to Energy					
3	Core DISSERTATION	Dissertation Phase-I / Industrial Project	--	--	20	10	
<b>TOTAL</b>						<b>16</b>	<b>200</b>

\* Evaluated and displayed in 4<sup>th</sup> Semester marks list

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

### SEMESTER IV

S No.	Category	Course Name	L	T	P	C	Marks
1	Core DISSERTATION	Dissertation Phase-II / Industrial Project	0	0	32	16	100
						16	

#### **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.