

## M Tech. (Geomatics) Course Structure and Syllabus\*

SL.No.	Code No.	Subject	Theory	Practical
<b>Semester I</b>				
Theory				
1	GM 1.1	Topographical Surveying and Mapping	4	
2	GM 1.2	Introduction to Geodesy	4	
3	GM 1.3	Elements of Photogrammetry	4	
4	GM 1.4	Remote Sensing	4	
5	GM 1.5	Object Oriented Programming System & DBMS for GIS	4	
6	GM 3.1	Elective – I	4	
Lab				
7	GM 1.7	OOPS & DBMS Lab		4
8	GM 1.8	Photogrammetry and Remote Sensing Lab		4
			<b>24</b>	<b>8</b>
<b>Semester II</b>				
Theory				
8	GM 2.1	Digital Photogrammetry	4	
9	GM 2.2	Advanced Geodesy	4	
10	GM 2.3	Geographical Information System (GIS), Spatial Analysis and Modeling	4	
11	GM 2.4	Digital Cartography, Visualization and Web GIS	4	
12	GM 2.5	Project Management and Organizational Development	4	
13	GM 3.2	Elective – II	4	
Lab				
13	GM 2.6	Surveying and Geodesy Lab		4
14	GM 2.7	Geomatics Lab		4
			<b>24</b>	<b>8</b>
<b>Semester III &amp; IV</b>				
	GM 3.3	Project Work - Final Project and Dissertation		
Electives 1				
1		Spatial Data Infrastructures		
2		Cadastral & Land Administration		
3		Natural Resource and Disaster Management		
4		Water Resource Management		
Electives 2				
1		World Wide Web Creation for Spatial Data Dissemination		
2		Urban Planning & Land Administration		
3		Environment Management		
4		Space & Marine Geodesy		

*\*Subject to periodic revision by JNTUH*