

**DEPARTMENT OF REMOTE SENSING & GIS
JIS UNIVERSITY**

Program: **Master of Science (MSc) in Remote Sensing & GIS**

Department: **Remote Sensing & GIS**

Year I; Sem: 1st & 2nd

Teaching Scheme					Contact Hours/week			Exam Duration		Relative weightage (%)		
Sl. No.	Subject code	Course Title	Max Marks	Credit	L	T	P	Theory	Pract	INE	MTE	ETE
Semester I (Autumn)												
1	PRS1001	Remedial Mathematics, Remote Sensing Fundamentals and Launching Vehicles	100	4	4	-	-	3	-	20	30	50
2	PRS1002	Atmospheric and Ocean Sciences	100	4	4	-	-	3	-	20	30	50
3	PRS1003	Fundamentals of GIS, Navigational Satellite and Photogrammetry	100	4	4	-	-	3	-	20	30	50
4	PRS1101	Basic RS and GIS Lab;	50	2	-	-	4	-	2	25	-	25
	PRS 1102	Image Interpretation and Photogrammetric Lab	50	2	-	-	4	-	2	25	-	25
5	PRS1004	CBCS: Geoinformatics in Environmental Science & Management	100	4	4	-	-	3	-	20	30	50
6	PRS1501	SEMINAR-I	25	1	2	-	-	-	-	25	-	-
7	PRS1502	SKILLX-I	25	1	2	-	-	-	-	25	-	-
		Total	550	22	20	-	8	-	-	-	-	-
Semester II (Spring)												
1	MRS 201	Probability & Statistical Concepts in RS	100	4	4	-	-	3	-	20	30	50
2	MRS 202	Spatial decision, Thermal, Microwave and Hyper spectral Remote Sensing	100	4	4	-	-	3	-	20	30	50
3	MRS 203	Computational Method and Digital Cartography	100	4	4	-	-	3	-	20	30	50
4	MRS 291	Lab.1: Advanced RS Lab; Lab.2: Computational lab	100	4	-	-	8	-	4	50	-	50
5	MRS(GE)-002	CBCS: GIS & GNSS and its application	100	4	4	-	-	3	-	20	30	50
6	MRS281	SEMINAR-II	25	1	2	-	-	-	-	25	-	-
7	MRS282	SKILLX-II	25	1	2	-	-	-	-	25	-	-
		Total	550	22	20	-	8	-	-	-	-	-

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Year II; Sem: IIIrd & 4th

Teaching Scheme					Contact Hours/week			Exam Duration		Relative weightage (%)		
Sl. No.	Subject code	Course Title	Max Marks	Credit	L	T	P	Theory	Pract	INE	MTE	ETE

Semester III (Autumn)

1	MRS 301	Image Processing and Geo- informatics	100	4	4	-	-	3	-	20	30	50
2	MRS302	Advanced Remote Sensing	100	4	4	-	-	3	-	20	30	50
3	MRS 303	Earth Science Fundamentals and Application of Geo- informatics	100	4	4	-	-	3	-	20	30	50
4	MRS 304	Resources:ApplicationsofRS & GIS in Resource Management	100	4	4	-	-	3	-	20	30	50
5	MRS 391	Lab1 Lab 2	100	4	-	-	8	-	4	50	-	50
6	MRS 381	SEMINAR	25	2	2	-	-	-	-	25	-	-
7	MRS 382	SKILLX	25	2	2	-	-	-	-	25	-	-
Total			550	24	20	-	8	-	-	-	-	-

Semester IV (Spring)

1	MRS 401/1	ELECTIVE-I Geoinformatics in Coastal Zone Management	100	4	4	-	-	3	-	20	30	50
2	MRS 401/2	ELECTIVE-I Geoinformatics in Water Resource Management	100	4	4	-	-	3	-	20	30	50
3	MRS 402/1	ELECTIVE-II Radar System & Satellite Technique	100	4	4	-	-	3	-	20	30	50
4	MRS 402/2	ELECTIVE-II Geoinformatics in Natural Hazards Management	100	4	4	-	-	3	-	20	30	50
5	MRS 491	ELECTIVE-III Advanced Lab	100	4	-	-	8	-	4	50	-	50
6	MRS 492	Dissertation	150	6	-	-	-	-	-	-	-	150
7	MRS 493	Grand Viva	50	4	-	-	-	-	-	-	-	50
8	MRS 481	SEMINAR	25	2	2	-	-	-	-	25	-	-
9	MRS 482	SKILLX	25	2	2	-	-	-	-	25	-	-
Total			550	26	12	-	8	-	-	-	-	-