

Programme: M.Sc. (Remote sensing and GIS Applications)

(Total Four Semesters)

Interdisciplinary Department of Remote Sensing and GIS Applications, Aligarh Muslim University, Aligarh

Session 2016-2017

Choice Based Credit System (CBCS)

Types of Course: Core, Elective and Foundation

First Semester										
Type of Course	Course No.	Course Title	Marks distribution				Credit	Contact hours		
			Sessional	Mid Semester	End Semester	Total		L	T	P
Core	RSM-1	Remote Sensing and Image interpretation	10	30	60	100	4	48	08	0
Core	RSM-2	Fundamentals of GIS and GPS	10	30	60	100	2	24	04	0
Core	RSM-3	Basic Statistics and Computer Programming	10	30	60	100	4	48	04	0
Core	RSM-4	Aerial Photography and Photo-grammetry	10	30	60	100	2	24	04	0
Core	RSM-5	Data structure and Data bases	10	30	60	100	2	24	04	0
Core	RLM-1	Lab work: Practical for paper I and IV	Continuous evaluation 40		60	100	2	0	02	04
Core	RLM-2	Lab Work: Lab work: Practical for paper II,III and V			60	100	2	0	01	02
Ability Enhancement	AE-1	Field Work/GPS/ground truth survey	40	-	60	100	2	0	01	02
Elective (Discipline)	E-1	(a) Global Climate Change (b) Basic programming Concepts	10	30	60	100	4	48	8	0

Centric)										
						Total	24			

Second Semester								Contact hours		
Type of Course	Course No.	Course Title	Marks distribution				Credit	L	T	P
			Sessional	Mid Semester	End Semester	Total				
Core	RSM-6	Digital Image Processing	10	30	60	100	4	48	08	0
Core	RSM-7	Thermal and Microwave Remote sensing	10	30	60	100	2	24	04	0
Core	RSM-8	Earth Systems	10	30	60	100	2	24	04	
Core	RSM-9	Advanced Statistics for GIS & Spatial data analysis	10	30	60	100	4	48	08	0
Core	RLM-9	Lab work: Practical for papers 6 and 9	Continuous evaluation 40		60	100	2			02
Core	RLM-4	Lab work: Practical for papers 7 and 8			60	100	2			02
Ability enhancement	AE-2	Seminar presentation	40		60	100	4		02	
Elective (Discipline Centric)	E-2	a) Geography of India	10	30	60	100	4	2	0	0
		b) Mineral resources of India								
Total							24			

		management-I							
Total							24		

Fourth Semester							Contact hours				
Type of course	Course	Course Title	Marks distribution				Credit	L	T	P	
	No.		Sessional	Mid Semester	End Semester	Total					
Core	RSM-13	Application of remote sensing in Natural Resources	10	30	60	100	2	24	04	0	
Core	RSM-14	Hyperspectral remote sensing	10	30	60	100	2	24	04	0	
Core	RSM-15	Digital terrain modelling	10	30	60	100	2	24	04	0	
Core	RLM-7	Lab work: Paper 13 and E4	Contonous evaluation ---do--- 40 10	40	60	100	2	2	0	02	
	RLM-8	Lab work: Papers 14 & 15		40	60	100	2				
	RLM-9	Project Oriented Dissertation (<i>To be allotted after second semester exam or at the beginning of third semester</i>) Choose 01 course of the following:			60	100	4				02
	RLM-10	Presentation and Viva – Voce on Project Oriented Dissertation			100	100	2				
		Remote sensing & GIS applications in geo-sciences-II		10	30	60	100				4
		Remote sensing & GIS applications in water resources-II									

Elective (DC)	E-4	Remote Sensing & GIS applications in Land use planning-II								
		Remote sensing & GIS applications in Forestry and Ecology – II								
		Remote sensing & GIS applications in Soils and agriculture-II								
		Remote sensing & GIS applications in Environmental management-II								
Open Elective	OE	Fundamentals of remote sensing & GIS	10	30	60	100	4	4	0	0
	Total						24			
	Grand Total (Ist+IInd+IIIrd+IVth) Semesters						96			

L= Lecture period, T= Tutorial, P= Practical Period