

Final

SYLLABUS

FOR THE SESSION

2018 - 2019

M.Sc. (Remote Sensing and GIS Applications)

Choice Based Credit System (CBCS)

SEMESTER - I to IV

**INTERDISCIPLINARY DEPARTMENT OF
REMOTE SENSING AND GIS APPLICATIONS
ALIGARH MUSLIM UNIVERSITY
ALIGARH**

Checked
Mohd. Nazish
01/11/2018
Alim
01-11-2018

M *2.11.18*
विभागाध्यक्ष/Chairperson
आई.डी.आर.एस. एण्ड जी.आई.एस. एप्स.
IDRS & GIS Apps.
अ.मु.वि., अलीगढ़/A.M.U., Aligarh

Students from → BSc
 Geography
 Geology, Physics, Math
 Ecology
 Botany

COURSE STRUCTURE
 M.Sc. (Remote Sensing and GIS Applications)
 Session, 2018-2019
 Choice Based Credit System (CBCS)

COURSE NO	COURSE TITLE	TYPE	NO OF CREDITS	Lectures	Tutorial	Pract.	TOTAL PERIODS	MARKS		
								Se	Ex	Total
SEMESTER I										
RSM 1001	PRINCIPLES OF REMOTE SENSING	CORE	2	20	04		24	30	70	100
RSM 1002	APPLIED CARTOGRAPHY	CORE	2	20	04		24	30	70	100
RSM 1003	AERIAL PHOTOGRAPHY AND PHOTOGRAMMETRY	CORE	2	20	04		24	30	70	100
RSM 1004	BASIC STATISTICS AND DATA ANALYSIS	CORE	4	40	08		48	30	70	100
RSM 1005	FUNDAMENTAL OF DATA STRUCTURE AND COMPUTER PROGRAMMING	CORE	2	20	04		24	30	70	100
RSM 1011	EARTH SYSTEM SCIENCE	AE	4	40	08		48	30	70	100
RSM 1012	GROUND WATER HYDROLOGY	ELECTIVE								
RSM 1013	GLOBAL CLIMATE CHANGE	ELECTIVE								
RSM 1014	REMOTE SENSING IN GEOSCIENCE	ELECTIVE	4	40	08		48	30	70	100
RSM 1071	LAB WORK I: RSM 1001 1002 1003	CORE – P	2			24	24	40	60	100
RSM 1072	LAB WORK II: RSM 1004 1005 1011 E-1012, 13, 14	CORE – P	2			24	24	40	60	100
		TOTAL	24	200	40	48	288			900
SEMESTER II										
RSM 2001	DIGITAL IMAGE PROCESSING	CORE	4	40	08		48	30	70	100
RSM 2002	FUNDAMENTALS OF GIS & GPS	CORE	4	40	08		48	30	70	100
RSM 2003	ADVANCED GEOSTATISTICS AND MULTIVARIATE ANALYSIS	CORE	2	20	04		24	30	70	100
RSM 2004	THERMAL AND MICROWAVE REMOTE SENSING	CORE	2	20	04		24	30	70	100
RSM 2011	SPATIAL DATA ANALYSIS AND GIS MODELING	AE	2	20	04		24	30	70	100
RSM 2012	FUNDAMENTALS OF ECOSYSTEM	ELECTIVE								
RSM 2013	COASTAL AND MARINE ENVIRONMENT	ELECTIVE	4	40	08		48	30	70	100
RSM 2071	LAB WORK III: RSM 2001 2002 2011	CORE-P	2			24	24	40	60	100
RSM 2072	LAB WORK IV: RSM 2003 2004 E-2012, 13	CORE-P	2			24	24	40	60	100
RSM 2073	FIELD TRAINING	AE	2	20	04		24	40	60	100
		TOTAL	24	200	40	48	288			900

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								Se	Ex	Total
SEMESTER- III										
RSM 3001	HYPERSPECTRAL REMOTE SENSING	CORE	4	40	08		48	30	70	100
RSM 3002	APPLICATION OF REMOTE SENSING IN NATURAL RESOURCES	CORE	4	40	08		48	30	70	100
RSM 3003	DIGITAL TERRAIN MODELING	CORE	4	40	08		48	30	70	100
RSM 3011	DATA MINING AND CLOUD COMPUTING	AE	2	20	04		24	30	70	100
RSM 3012	TECHNICAL WRITING AND SEMINAR PRESENTATION	AE	2	20	04		24	30	70	100
RSM 3013	INTEGRATED WATERSHED MANAGEMENT	ELECTIVE								
RSM 3014	REMOTE SENSING AND GIS APPLICATION IN URBAN PLANNING	ELECTIVE								
RSM 3015	NATURAL HAZARDS AND DISASTER MANAGEMENT	ELECTIVE	4	40	08		48	30	70	100
RSM 3071	LAB WORK V: RSM 3001 3002	CORE – P	2			24	24	40	60	100
RSM 3072	LAB WORK VI: RSM 3003 3011 E-3013,14, 15	CORE – P	2			24	24	40	60	100
		TOTAL	24	200	40	48	288			800
SEMESTER - IV										
RSM 4011	ENVIRONMENTAL IMPACT ASSESSMENT	ELECTIVE								
RSM 4012	REMOTE SENSING AND GIS APPLICATION IN WILDLIFE STUDIES	ELECTIVE	4	40		08	48	30	70	100
RSM 4071	PROJECT/DISSERTATION	CORE	10	100	20		120	40	60	100
RSM 4072	PRESENTATION AND VIVA VOCE	CORE	6	60	12		72	40	60	100
RSM 4091	OPEN ELECTIVE (FUNDAMENTALS OF REMOTE SENSING, GIS AND GPS)	OPEN ELECTIVE	4	40	08		48	30	70	100
		TOTAL	24	240	48		288			400
		G.TOTAL	96							3000