

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 | 4 | 40 | 08 | | 48 | 30 | 70 | 100 |
| RSM 1013 | GLOBAL CLIMATE CHANGE | ELECTIVE | | | | | | | | |
| RSM 1014 | REMOTE SENSING IN GEOSCIENCE | ELECTIVE | | | | | | | | |
| RSM 1071 | LAB WORK I: RSM1001 1002 1003 | CORE – P | 2 | | | 24 | 24 | 40 | 60 | 100 |
| RSM 1072 | LAB WORK II: RSM1004 1005 1011 E-1012, 13, 14 | CORE – P | 2 | | | 24 | 24 | 40 | 60 | 100 |
| | | TOTAL | 24 | 200 | 40 | 48 | 288 | 900 | | |

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| 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 | 4 | 40 | 08 | | 48 | 30 | 70 | 100 |
| RSM 2013 | COASTAL AND MARINE ENVIRONMENT | ELECTIVE | | | | | | | | |
| RSM 2071 | LAB WORK III: RSM2001 2002 2011 | CORE-P | 2 | | | 24 | 24 | 40 | 60 | 100 |
| RSM 2072 | LAB WORK IV: RSM2003 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 | | |

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| SEMESTER -IV | | | | | | | | | | |
| RSM 4011 | ENVIRONMENTAL IMPACT ASSESSMENT | ELECTIVE | | | | | | | | |
| RSM 4012 | REMOTE SENSING AND GIS APPLICATION IN WILDLIFE STUDIES | ELECTIVE | | | | | | | | |
| 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 | | |