

NEWCOURSE STRUCTURE - To be effective from academic session 2022-23
Based on CBCS & OBE model
Recommended scheme of study for all M. Sc. Programmes

M. SC. GEOINFORMATICS

| Semester / Session of Study (Recommended) | Course Level | Category of course | Course Code | Subjects | Mode of delivery & credits <i>L-Lecture; T-Tutorial; P-Practicals</i> | | | Total Credits <i>C- Credits</i> | |
|---------------------------------------------------|-------------------------|-------------------------|----------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------|----------------------------|------------------------------------|---|
| | | | | | L <i>(Periods/week)</i> | T <i>(Periods/week)</i> | P <i>(Periods/week)</i> | C | |
| FIRST / Monsoon | FIFTH | Programme Core (PC) | GI 501 | Principles of Remote Sensing | 3 | 0 | 0 | 3 | |
| | | | GI 502 | Geographic Information System | 3 | 0 | 0 | 3 | |
| | | | GI 503 | Digital Cartography and GPS | 3 | 0 | 0 | 3 | |
| | | | GI 504R1 | Advanced Image Acquisition and Interpretation for Environmental Mapping | 3 | 0 | 0 | 3 | |
| | | Open Elective (OE) | | Open Elective (OE) 1 | 3 | 0 | 0 | 3 | |
| | LABORATORIES | | | | | | | | |
| | FIFTH | Programme Core (PC) | GI 505 | Remote Sensing Laboratory | 0 | 0 | 4 | 2 | |
| | | | GI 506 | Geographic Information System Laboratory | 0 | 0 | 4 | 2 | |
| | | | GI 507 | Digital Cartography and GPS Laboratory | 0 | 0 | 4 | 2 | |
| | | | GI 508 | Image Acquisition and Image Interpretation Laboratory | 0 | 0 | 4 | 2 | |
| | | | MT 132 | Communication Skills I | 0 | 0 | 3 | 1.5 | |
| | TOTAL | | | | | | | 24.5 | |
| | SECOND/ Spring | FIFTH | Programme Core (PC) | GI 509R1 | Digital Satellite Image Processing | 3 | 0 | 0 | 3 |
| | | | | GI 510R1 | Research Methods and Statistics in Geoinformatics | 3 | 0 | 0 | 3 |
| GI 518 | | | | Spatial data handling through Programming | 3 | 0 | 0 | 3 | |
| MT 133 | | | | Communication Skills II | 0 | 0 | 3 | 1.5 | |
| Programme Elective (PE) | | | GI * ## | ELECTIVE - I | 3 | 0 | 0 | 3 | |
| Open Elective (OE) | | | Open Elective (OE) 2 | 3 | 0 | 0 | 3 | | |
| LABORATORIES | | | | | | | | | |
| FIFTH | | Programme Core (PC) | GI 511 | Digital Satellite Image Processing Laboratory | 0 | 0 | 4 | 2 | |
| | | | GI 512R1 | Programming and Customisation in Geospatial domain Laboratory | 0 | 0 | 4 | 2 | |
| | | | GI 513 | Field Study Laboratory | 0 | 0 | 4 | 2 | |
| | | Programme Elective (PE) | GI * ## | ELECTIVE - I Laboratory | 0 | 0 | 4 | 2 | |
| TOTAL | | | | | | | 24.5 | | |
| TOTAL FOR FIFTH LEVEL | | | | | | | | 49 | |
| THIRD / Monsoon | | SIXTH | Programme Core (PC) | GI 601 | Dissertation (Part - I) | | | | 4 |
| | GI 602 | | | Advanced Geospatial Modelling and Decision Support System | 3 | 1 | 0 | 4 | |
| | GI 603 | | | Aerial, Satellite, UAV based Photogrammetry & Application | 3 | 1 | 0 | 4 | |
| | Programme Elective (PE) | | GI * \$\$ | ELECTIVE - II | 3 | 1 | 0 | 4 | |
| | Open Elective (OE) | | | Open Elective (OE) 3 | 3 | 0 | 0 | 3 | |
| | LABORATORIES | | | | | | | | |
| | SIXTH | Programme Core (PC) | GI 604 | Advanced Geospatial Modelling & DSS Laboratory | 0 | 0 | 4 | 2 | |
| | | | GI 605 | Aerial, Satellite, UAV based Photogrammetry & Application Laboratory | 0 | 0 | 4 | 2 | |
| | | Programme Elective (PE) | GI * \$\$ | ELECTIVE - II Laboratory | 0 | 0 | 4 | 2 | |
| | TOTAL | | | | | | | 25 | |
| FOURTH/ Spring | SIXTH | Programme Core (PC) | GI 611 | Dissertation (Part - II) | | | | 8 | |
| | | | TOTAL | | | | | | |
| TOTAL FOR SIXTH LEVEL | | | | | | | | 33 | |
| GRAND TOTAL FOR M.TECH PROGRAMME (49 + 33) | | | | | | | | 82 | |