**Department of Geography B.SC. Honours**

**Academic Calendar**

**Semester – I (Session: 2018 – 2019)**

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| **Paper** | **Course Content** | **Credits &**  **Marks** | **No. of Lectures**  **Weeks** | **July**  **(2018)**  **Weeks**  **(2-3)** | **August**  **(2018)**  **Weeks**  **(04)** | | **September**  **(2018)**  **Weeks (04)** | | **October**  **(2018)**  **Weeks (02)** | | **November**  **(2018)**  **Weeks (02)** | **December**  **(2018)**  **Weeks**  **(3 -4)** |
| **GEOACOR 01T**  **Geotectonics**  **and**  **Geomorphology** | **Unit I: Geotectonics**  1. Earth’s tectonic and structural evolution with reference to geological time scale  2. Earth’s interior with special reference to seismology. Isostasy: Models of Airy and Pratt  3. Plate Tectonics as a unified theory of global tectonics: Processes and landforms at plate marginsand hotspots  4. Folds and Faults—origin and types  **Unit II: Geomorphology**  5. Degradational processes: Weathering, mass wasting and resultant landforms  6. Development of river network and landforms on uniclinal and folded structures  7. Development of landforms on granites, basalts and limestones.  8. Coastal processes and landforms  9. Glacial and glacio-fluvial processes and landforms | **Credits (04)**  **Marks (50)**  **Classes**  **(60)** | **(17)**  **04**  **04**  **04**  **05**  **(43)**  **04**  **06**  **08**  **05**  **06** | **02**  **02**  **02**  **01**  **01** | **02**  **02**  **02**  **03**  **02**  **03**  **02** | Internal Assessment Phase - I | **01**  **01**  **03**  **03**  **04**  **02** | Internal Assessment Phase - II | Internal Assessment Phase - III | **01**  **01**  **02** | **01**  **01** | **01**  **01** |

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|  | 10. Aeolian and fluvio-aeolian processes and landforms  11. Models on landscape evolution: Views of Davis, Penck and Hack |  | **08**  **06** |  |  | Internal Assessment Phase - I  I**n**ternal  Phase  1 | |  | Internal Assessment Phase - II | | Internal Assessment Phase - III | **02** | **03**  **03** | **03**  **03** |
| **GEOACOR 02T Cartographic Techniques** | 1. Maps: Classification and types. Components of a map  2. Concept and application of scales: Plain, comparative, diagonal and vernier  3. Survey of India topographical maps: Reference scheme of old and open series. Information onthe margin of maps  4. Coordinate systems: Polar and rectangular  5. Concept of generating globe and UTM projection  6. Grids: angular and linear systems of measurement  7. Map projections: Classification, properties and uses | **Credits (4)**  **Marks (50)**  **Classes**  **(60)** | **04**  **06**  **11**  **10**  **08**  **09**  **12** | **03**  **01**  **03**  **01** | **01**  **03**  **04**  **04**  **02**  **02** | **02**  **04**  **03**  **03**  **02** | **01**  **01**  **01**  **03** | **01**  **01**  **02**  **04** | **01**  **02**  **05** |

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| **GEOACOR 01P**  **Geotectonics and Geomorphology** | 1. Megascopic identification of  (a) *mineral samples*: Bauxite, calcite, chalcopyrite, feldspar, galena, gypsum, hematite, magnetite, mica, quartz, talc, tourmaline; and  (b) *rock samples*: Granite,  basalt, dolerite, laterite, limestone, shale, sandstone, conglomerate, slate, phyllite, schist, gneiss,  quartzite, marble  2. Interpretation of geological maps with unconformity and intrusions on uniclinal and folded structures | **Credits (02)**  **Marks (25)**  **Classes**  **(60)** | **18**  **12**  **30** | **06**  **06** | **08**  **08** | Internal Assessment Phase - I | **04**  **02**  **06** | Internal Assessment Phase - II | Internal Assessment Phase - III | **04**  **04** | | **04**  **04** | | **02**  **02** | |

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| **GEOACOR 02P**  **Cartographic Techniques** | 1. Graphical construction of scales: Plain, comparative, diagonal and vernier  2. Construction of projections: Polar Zenithal Stereographic, Simple Conic with two standard parallels, Bonne’s, Cylindrical Equal Area, and Mercator’s  3. Delineation of drainage basin from Survey of India topographical map. Construction and interpretation of relief profiles (superimposed, projected and composite), relative relief map,slope map (Wentworth), and stream ordering (Strahler) on a drainage basin.  4. Correlation between physical and cultural features from Survey of India topographical maps using transect chart. | **Credits (02)**  **Marks (25)**  **Classes**  **(60)** | **08**  **18**  **20**  **14** | **02**  **04** | **06**  **08** | Internal Assessment Phase - I | **06**  **08** | Internal Assessment Phase - II | Internal Assessment Phase - III | **04**  **04** | **06**  **06** | **02**  **04** |