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

**Academic Calendar**

**Semester – III (Session: 2019 – 2020)**

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| **Paper** | **Course Content** | **Credits &**  **Marks** | **No. of Lectures**  **Weeks** | **July**  **(2019)**  **Weeks**  **(2-3)** | **August**  **(2019)**  **Weeks**  **(04)** | | **September**  **(2019)**  **Weeks (04)** | | **October**  **(2019)**  **Weeks (01)** | **November**  **(2019)**  **Weeks (02)** | | **December**  **(2019)**  **Weeks**  **(2 -3)** |
| **GEOACOR05T Climatology** | **Unit I: Elements of the Atmosphere**  1. Nature, composition and layering of the atmosphere  2. Insolation: controlling factors. Heat budget of the atmosphere  3. Temperature: horizontal and vertical distribution. Inversion of temperature: types, causes and  Consequences  4. Greenhouse effect and importance of ozone layer  **Unit II: Atmospheric Phenomena and Climatic Classification** | **Credits (4)**  **Marks (50)**  Classes(60 | **(18)**  **03**  **05**  **06**  **04**  **(42)** | **02**  **02** | **01**  **02**  **02** | **Internal Assessment Phase - I** | **02**  **01**  **03** | **Internal Assessment Phase - II** | **01**  **01** | **Internal Assessment Phase - III** | **01** |  |

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|  | 5. Condensation: Process and forms. Mechanism of precipitation: Bergeron-Findeisen theory,  collision and coalescence. Forms of precipitation  6. Air mass: Typology, origin, characteristics and modification  7. Fronts: warm and cold; frontogenesis and frontolysis  8. Weather: stability and instability; barotropic and baroclinic conditions  9. Circulation in the atmosphere: Planetary winds, jet stream, index cycle  10. Tropical and mid-latitude cyclones  11. Monsoon circulation and mechanism with reference to India  12. Climatic classification after Köppen, Thornthwaite (1955) and Oliver |  | **06**  **04**  **04**  **05**  **06**  **04**  **06**  **07** | **02**  **01** | **04**  **01**  **05** | **Internal Assessment Phase - I** | **03**  **01**  **03** | **Internal Assessment Phase - II** | **01**  **01** | **Internal Assessment Phase - III** | **02**  **05**  **04**  **05** | **02**  **02** |

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| **GEOACOR 05P Climatology** | **1.** Interpretation of daily weather map of India (any two): Pre-Monsoon, Monsoon and Post-  Monsoon  **2.** Construction and interpretation ofhythergraph andclimograph (G. Taylor)  **3.** Construction and interpretation of wind rose  **4.** A Project File, comprising of one exercise from each of the following is to be prepared and  Submitted | **Credits (2)**  **Marks (25)**  **Classes(60)** | **36**  **09**  **06**  **09** | **06**  **02** | **08**  **03**  **04** | **Internal Assessment Phase - I** | **09**  **03**  **03** | **Internal Assessment Phase - II** | **03**  **02** | **Internal Assessment Phase - III** | **10**  **02** | **03**  **02** |
| **GEOACOR06T Geography of India** | **Unit I: Geography of India**  1. Tectonic and stratigraphic provinces, physiographic divisions  2. Climate, soil and vegetation: Characteristics and classification  3. Population: Distribution, growth, structure and policy  4. Tribes of India with special reference to Gaddi, Toda, Santal and Jarwa | **Credits (06)**  **Marks (75)**  Classes  (90) | **(60)**  **05**  **10**  **09**  **05** | **03**  **03** | **02**  **04**  **02** | **06** | **01** | **06** | **02** |

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|  | 5. Agricultural regions. Green revolution and its consequences  6. Mineral and power resources distribution and utilisation of iron ore, coal, petroleum and natural Gas  7. Industrial development: Automobile and information technology  8. Regionalisation of India: Physiographic (R.L. Singh) and economic (P. Sengupta)  **Unit II: Geography of West Bengal**  9. Physical perspectives: Physiographic divisions, forest and water resources  10. Resources: Agriculture, mining, and industry  11. Population: Growth,distribution and human development  12. Regional Issues: Darjeeling Hills and Sundarban |  | **10**  **09**  **04**  **08**  **(30)**  **08**  **07**  **07**  **08** | **02**  **03** | **04**  **02**  **04**  **04**  **02** | **Internal Assessment Phase - I** | **06**  **04**  **04** | **Internal Assessment Phase - II** | **01**  **01**  **01** | **Internal Assessment Phase - III** | **06**  **06**  **06** | **02**  **01**  **02** |

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| **GEOACOR07T Statistical Methods in Geography** | **Unit I: Frequency Distribution and Sampling**  1. Importance and significance of statistics in Geography  2. Discrete and continuous data, population and samples, scales of measurement (nominal, ordinal,  interval and ratio),  3. Sources of geographical data for statistical analysis  4. Collection of data and formation of statistical tables  5. Sampling: Need, types, and significance and methods of random sampling  6. Theoretical distribution: frequency, cumulative frequency, normal and probability  **Unit II: Numerical Data Analysis**  7. Central tendency: Mean, median, mode, partition values  8. Measures of dispersion range: mean deviation, standard deviation, coefficient of variation | **Credits (4)**  **Marks (40)**  Classes(60) | **(30)**  **04**  **05**  **06**  **02**  **07**  **06**  **(30)**  **05**  **10** | **02**  **02**  **02** | **02**  **01**  **03**  **03** | **Internal Assessment Phase - I** | **03**  **03**  **03** | **Internal Assessment Phase - II** | **01**  **01**  **01** | **Internal Assessment Phase - III** | **04**  **04**  **04** | **02**  **02**  **02** |

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|  | 9. Association and correlation: Rank correlation, product moment correlation  10. Regression: Linear and non-linear  11. Time series analysis: Moving average |  | **05**  **04**  **06** | **02** | **03** | **Internal Assessment Phase - I** | **03** | **Internal Assessment Phase - II** | **01** | **Internal Assessment Phase - III** | **04** | **02** |
| **GEOACOR07P Statistical Methods in Geography (Lab)** | 1. Construction of data matrix with each row representing an areal unit (districts / blocks / *mouzas*/ towns) and corresponding columns of relevant attributes  2. Based on the above, a frequency table, measures of central tendency and dispersion would be computed and interpreted using histogram and frequency curve  3. From the data matrix a sample set (20%) would be drawn using, random, systematic and stratified methods of sampling and locate the samples on a map with a short note on methods  used  4. Based on the sample set and using two relevant attributes, a scatter diagram and linear regression line would be plotted and residual from regression would be mapped with a short interpretat | **Credits (2)**  **Marks (25)**  Classes(60) | **16**  **14**  **16**  **14** | **04**  **04** | **06**  **06** | **06**  **06** | **02**  **02** | **08**  **08** | **04**  **04** |