**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 atmosphere2. Insolation: controlling factors. Heat budget of the atmosphere3. Temperature: horizontal and vertical distribution. Inversion of temperature: types, causes andConsequences4. 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 precipitation6. Air mass: Typology, origin, characteristics and modification7. Fronts: warm and cold; frontogenesis and frontolysis8. Weather: stability and instability; barotropic and baroclinic conditions9. Circulation in the atmosphere: Planetary winds, jet stream, index cycle10. Tropical and mid-latitude cyclones11. Monsoon circulation and mechanism with reference to India12. 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 andSubmitted | **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 divisions2. Climate, soil and vegetation: Characteristics and classification3. Population: Distribution, growth, structure and policy4. 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 consequences6. Mineral and power resources distribution and utilisation of iron ore, coal, petroleum and natural Gas7. Industrial development: Automobile and information technology8. 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 resources10. Resources: Agriculture, mining, and industry11. Population: Growth,distribution and human development12. 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 Geography2. Discrete and continuous data, population and samples, scales of measurement (nominal, ordinal,interval and ratio),3. Sources of geographical data for statistical analysis4. Collection of data and formation of statistical tables5. Sampling: Need, types, and significance and methods of random sampling6. Theoretical distribution: frequency, cumulative frequency, normal and probability**Unit II: Numerical Data Analysis**7. Central tendency: Mean, median, mode, partition values8. 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 correlation10. Regression: Linear and non-linear11. 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 attributes2. Based on the above, a frequency table, measures of central tendency and dispersion would be computed and interpreted using histogram and frequency curve3. 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 methodsused4. 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** |