B.Sc - GEOGRAPHY (2018-2019 Onwards)

SEMESTER-I

CORE -I- GEOMORPHOLOGY- I

- UNIT I Definition of geomorphology Origin of the earth Gaseous Hypothesis of Immanuel Kant Nebular theory of Laplace Tidal hypothesis of James Jeans and Modification by Jeffrey Binary star theory of Russell Structure of the earth's interior Crust mantle core Rocks classification of rocks igneous, sedimentary and metamorphic rocks.
- UNIT II Earth movements Endogenetic forces sudden forces and movements diastrophic forces and movements epeirogenetic movements orogenetic movements folds faults rift valleys exogenetic forces.
- UNIT III Volcanoes components of volcanoes classification of volcanoes volcanic materials world distribution of volcanoes hazardous effects of volcanism earthquakes causes of earthquakes types and world distribution distribution hazardous effects of earthquake Wegner's Continental drift theory Isostasy.
- UNIT IV Major landforms mountains classification plateaus classification plains classification.
- UNIT V Weathering Meaning controlling factors types physical chemical and biological weathering- geomorphic importance of weathering mass movement concept- classification resultant features- Soil formation of soil characteristics, types and distribution soil profile.

- 1. Balbir Singh Negi, Physical Geography, S.J Publications Meerut, 1993
- 2. Das Gupta, A., and Kapoor, A.N, Principles of Physical Geography, S.C. Chand & Company Ltd, 2001
- 3. Lobeck. A.K., An Introduction to the study of Landscapes, Mc Graw -Hill Book company, 1939

- 4. Robinson .H., Physical Geography, Mac Donald and Evans Ltd, 1971Sharma. V.K., Earth Surface Process and forms, Tata Mc Graw Hill Publishing Company Ltd, New Delhi, 1986.
- 5. Thorn Bury.D., Principles of Geomorphology, Wiley Eastern Ltd, New Delhi, 1984
- Strahler A.H and Strahler A.N Modern Physical Geography, New York, John Wiley and Sons. INC, 1975

CORE II - CARTOGRAPHY

- UNIT I Nature, scope and content of cartography maps classification and uses development of cartography branches in cartography.
- UNIT II Earth as a cartographic problem shape, size and direction dimension of the earth plane, spherical and rectangular systems latitudes, longitudes and time.
- UNIT III Map scale types of scale enlargement and reduction map projection basic principles of cylindrical, conical and zenithal projections.
- UNIT IV Principles of map generalization map design and layout components of layout map index with reference to SOI and NATMO maps.
- UNIT V Map symbolization point, line and area symbols qualitative and quantitative symbols.

- 1. Misra. R.P and A,Ramesh Fundamentals of cartography, concept publishing Company, New Delhi, 2000.
- 2. Erwin and Raisz principles of cartography, Mc graw Hill book company 1962
- 3. Robinson.H., Elements of Cartography, John Wiley and Son INC, 1960
- 4. Monhouse Map and diagrams methuan 1971

5. RL Singh – Elements of practical geography – Students to frients Allahabad 1968

SEMESTER-II

CORE - III - GEOMORPHOLOGY - II

- UNIT I Drainage systems sequent insquent drainage patterns Work of running water (river) types of fluvial erosion erosional landforms transportational work of rivers-depositional landforms river development stages river capture- Normal cycle of erosion by Davis.
- UNIT II Glacial processes -types and movement of glacier Erosional work of glacier Depositional landforms of glacier.
- UNIT III Work of Wind erosional work of wind and erosional landforms transportational work depositional landforms in arid regions.
- UNIT IV Underground water and karst topography Geomorphic work of groundwater erosional landforms developed in limestone regions- depositional landforms of karst region.
- UNIT V Work of Waves agents of coastal erosion erosional land forms transportational work depositional landforms in arid regions coast Johnson's classification of coast.

- 1. Balbir Singh Negi, Physical Geography, S.J Publications Meerut, 1993
- 2. Das Gupta, A., and Kapoor, A.N, Principles of Physical Geography, S.C. Chand & Company Ltd, 2001
- 3. Lobeck. A.K., An Introduction to the study of Landscapes, Mc Graw -Hill Book company, 1939

- 4. Robinson .H., Physical Geography, Mac Donald and Evans Ltd, 1971Sharma. V.K., Earth Surface Process and forms, Tata Mc Graw Hill Publishing Company Ltd, New Delhi, 1986.
- 5. Thorn Bury.D., Principles of Geomorphology, Wiley Eastern Ltd, New Delhi, 1984
- 6. Strahler A.H and Strahler A.N Modern Physical Geography, New York, John Wiley and Sons. INC, 1975

SEMESTER - II

CORE IV - PRACTICAL - I - MAP MAKING AND REPRESENTATION OF RELIEF

- UNIT I Scales definition types construction of map scales comparative and diagonal scales time scale.
- UNIT II Enlargement and reduction by square methods similar triangle method
- UNIT III Map direction and bearing Measurements of Distance using Thread, Divider and Rotometer.
- UNIT IV Measurement of area by square, linear and by planimeter methods.

- 1. Gopal Singh Map work and practical geography, Vikas Publishing House.
- 2. Ishtiaq Practical geography, published by Jawahar publishing and distributors, 1994
- 3. Monkhouse. F.J., and H.R Wilkinson Maps and Diagrams, B.I publications, 1952
- 4. Zamir Alvi A text book of Practical Geography, Vikas Publishing house Pvt ltd, 1994
- 5. Zulfequar Ahmad Khan. M.D., Text boom of Practical Geography, concept publishing company, New Delhi, 1998.

SEMESTER III

CORE - V - CLIMATOLOGY - I

- UNIT I Climatology meaning elements of weather and climate composition of atmosphere structure of the atmosphere.
- UNIT II Insolation meaning distribution of insolation factors affecting the distribution heat budget of the earth and the atmosphere.
- UNIT III Temperature transfer of heat energy heating of the atmosphere by conduction- convection radiation absorption reflection and scattering controlling factors of temperature distribution diurnal- seasonal- horizontal and vertical distribution of temperature normal lapse rate inversion of temperature.
- UNIT IV Pressure definition Pressure gradient pressure types variations in atmospheric pressure horizontal distribution of pressure and pressure belts.
- UNIT V Atmospheric motion- pressure gradient and air circulation coriolis force- frictional force- geostrophic winds gradient winds General circulation Planetary wind belt seasonal winds monsoon concepts of origin of monsoon wind (thermal and dynamic) local winds periodic local winds and non-periodic local winds. ElNino LaNino.

- 1. Lal. D.S., Climatology, Chatianya Publishing House, Allahabad, 1990
- 2. Howard J. Chritchfield, General Climatology, Prentice Hall of India Pvt Ltd, 1987
- 3. Glen. T.Trewartha and Lyes H.Horn An Introduction to Climate, International student Edition, Mc Graw Hill International Book Company, 1980.
- 4. Patterson Climatology.
- 5. Barry & Chorley Atmosphere, weather and climate Methuen 1968.

SEMESTER - III

CORE ELECTIVE - I- OCEANOGRAPHY

- UNIT I Oceanography meaning scope and branches of oceanography- Distribution of continents and ocean Bottom topography of Indian, Atlantic and Pacific Ocean.
- UNIT II Temperature Process of Heating and Cooling- distribution of temperature horizontal and vertical Salinity- Sources Controlling factors distribution of salinity horizontal and vertical.
- UNIT III Surface Currents origin Factors controlling currents types of currents Currents of Indian, Atlantic and Pacific Oceans Waves and Tides.
- UNIT IV Marine resources classification coral reef conditions of growth types and distribution of coral reefs.
- UNIT V Marine deposits- Sources and types Classification Marine Sediments Distribution of Sediments.

- 1. Lal .D.S., Oceanography
- 2. Grant Gross Oceanography, Prentice Hall International Editions, 1987
- 3. Sharma.R.C., and M.Vital Oceanography for Geographers, Chatianya publishing house, Allahabad, 1987
- 4. Paul R. Pinet Oceanography, West Publishing Company, 1992

SEMESTER - III

SBE - I - DISASTER MANAGEMENT

- UNIT I Environmental Hazards earthquake, volcanoes, landslide
- UNIT II Global Warming Greenhouse effect cyclones, floods, tsunami drought.
- UNIT III Human impact on agriculture industries
- UNIT IV Deforestation Desertification Pollution nature and classification
- UNIT V Environmental Impact Assessment and Disaster management.

- 1. Robinson H. Biogeography, Plymouth, MacDonald and Evans Ltd., 1972.
- 2. Mohammad safi Mehdi Raza New Delhi, Rawat Publications 1994.
- 3. Sharma P.D. Ecology and Environment, Meerut, Rasogi Publications.
- 4. Trivedi P.R Water Pollution, New Delhi, Akashdeep, Publishing House 1992.

SEMESTER - III

NME - I - PRICIPLES OF REMOTE SENSING

- UNIT I Principles of remote sensing History.
- UNIT II EMR Electromagnetic spectrum Energy interactions with atmosphere and earth surface features.
- UNIT III Platforms Sensors.
- UNIT IV Aerial photographs types elements of interpretation and uses of aerial photographs.
- UNIT V Satellite imagery types visual image interpretation uses of satellite imageries.

BOOK FOR REFERENCE.

- 1. C.S.Agarwal & P.K.Grag Text Book of Remote Sensing Wheeler Publishing 2000
- 2. Gampbell. James B.I Introduction to Remote Sensing The Guild Press, New York
- 3. Curran Fundamentals of Remote Sensing Longman, London
- 4. Lillesend TM & Kiefer R.W Remote Sensing & Image Interpretation John Wiley & sons, New York
- 5. Luedev D.R. Aerial Photographic Interpretation Mc. Graw Hill Company, New York

CORE - VI - CLIMATOLOGY - II

- UNIT I Humidity water vapor evaporation latent heat types of humidity measurement of humidity Evaporation evapotranspiration Condensation forms of condensation fog- classification of fogs.
- UNIT II Clouds classification and characteristic features of clouds Precipitations forms types and distribution of precipitation.
- UNIT III Air mass characteristics source region classification of air masses fronts concepts classisfication cyclones origin and distribution of tropical and temperate cyclones anti cyclones thunderstorms- tornado Jet streams.
- UNIT IV Climatic classification Koppen's and Thronthwaite's classifications.
- UNIT V Weather forecasting meaning and importance procedures for forecasting tools in weather forecasting types of weather forecasting benefits of weather forecasting.

- 1. Lal .D.S., climatology, chatianya publishing house, Allahabad, 1990
- 2. Howard J.Chritchfield, General Climatology, Prentice Hall of India Pvt, Ltd, 1987.
- 3. Glenn.T.Trewartha and lyes H.Horn An Introduction to Climate, International Student Edition, Mc Graw Hill International Book Company, 1980
- 4. Nizamuddin khan, An introduction to Physical Geography

CORE VII – PRACTICAL II - CLIMATIC DIAGRAMS AND WEATHER MAPS INTERPRETATION

- UNIT I Diagrammatic representation of Climatic data Hyther graph Climograph-Wind Rose diagram and Ergo graph.
- UNIT II Temperature and rainfall Line graphs Dispersion diagram.
- UNIT III Weather symbols, station model weather map interpretation.
- UNIT IV Field work and local geography.

- 1. M. Ishtiaq- Practical Geography-published by Jawahar publishers and Distributors-1994.
- 2. F.J. Monkhouse and H.R. Wilkinson-Maps and Diagrams-B.I.Publications-1952.
- 3. MD.Zulfequar Ahmad Khan-Text Book of Practical Geography-Concept Publishing Company, New Delhi-1998.
- 4. Gopal singh-Map work and practical geography- Vikas publishing House pvt.Ltd-1996.
- 5. R.L Singh Elements of Practical Geography, Kalyani publishers, 1979

CORE ELECTIVE – II - TRAVEL AND TOURISM

- UNIT I Concepts of tourism and leisure principles and purpose of geography of tourism- history of tourism- ancient medieval modern Types of tourism.
- UNIT II Determinants and motivation of tourism measurement of tourism
- UNIT III Elements of tourism attraction, accommodation and accessibility Socio economic impact on tourism development
- UNIT IV Travel formalities- Tour Itinerary- Travel Agencies-International Concessions- Travel abroad- facilities- Visa, Passport, Bank restrictions- Traveler's Cheques.
- UNIT V Tourism and environment, tourism and planning and development in India with Special reference to Tamil Nadu.

 Tourist potential- problems planning medical tourism.

- 1. Kaul R.N., Dynamics of Tourism, NewDelhi, Sterling Publishers 1985.
- 2. Sharma J.K. Tourism Planning and Development A New Perspective, New Delhi, Kanishka Publisher.
- 3. Francois Vellas and Lionel B'echerel, Greate Britain, Antony Raw Ltd., 1995.
- 4. Pushpinder S. Gill New Delhi, Anmol Publication Pvt. Ltd.,
- 5. Bhatia A.K. Tourism Development Bangalore sterling Publishers (p) Ltd. 1999.

SBE - II - COMPUTER APPLICATIONS IN GEOGRAPHY

- UNIT-I Concept of computer system- Components and memory-Concept of hardware, software, algorithms, systems analysis and computer programming.
- UNIT-II MS office: Use of Word, Excel, Access and Power point
- UNIT-III Software operating system- Programming languages application oriented software-Mapping remote sensing, GIS and statistical software's.
- UNIT-IV Use of SPSS-Statistical summaries of mean, median, mode and standard deviation.
- UNIT-V Use of computer in generating correlation regression and hypothesis testing.

- 1. Microsoft Office 2000 Maria Reid and Karl Schwartz, BPB Publications, New Delhi.
- 2. Fundamentals of Computers V. Raja Raman.
- 3. Introduction to Computers Peter Norton Tata Mc Graw Hill publishing company limited New Delhi 2000.
- 4. PC Software made simple(MS Office) R.K. Taxali.

NME – II - GEOGRAPHICAL INFORMATION SYSTEM

- UNIT I GIS Definition history components hardware software data people.
- UNIT II Geographic data point, line and area spatial data and non spatial data.
- UNIT III Data model raster and vector data conversation digitization errors.
- UNIT IV Database Management System (DBMS) use of GIS.
- UNIT V GPS Definition history segments uses.

- 1. Ball D.R. Babbage Geographic Information System for Defence Application Pergamon Press Australia
- 2. Barrette & Burough Principles of GIS for Land Resource Assessment -Clarendon Press - Oxford
- 3. Bidhanesh Misra Geographic Information System & Economic Development.
- 4. Lan Heywod, Sarah Cornelines, An Introduction to Geographical Information System I Addison Wesley, Longman Ltd, 2000

CORE - VIII - GEOGRAPHY OF RESOURCES - I

- UNIT-I Resource Meaning -- Concept of resources- functional dynamic concepts- Classification of resources renewable nonrenewable resources.
- UNIT-II Land as a resource land use types and conservation; soil as a resource erosion and conservation; man as a resource.
- UNIT-III Water as a resource uses irrigation transport problems conservation fisheries major fishing grounds of the world problems.
- UNIT-IV Natural vegetation forest types products and conservation.
- UNIT-V Grassland types -livestock distribution.

- 1. Prithvish Roy & Somnath mukerjee Economic geography an appraisal of resources, new central book agency, culcutta-700 009.
- 2. V.K. Gupta Economic and Commercial Geography, Sultan Chand and Sons, 1977.
- 3. S.K. Sadhukhan Economic Geography an Appraisal of resources, S.Chand and company Ltd.-1982.
- 4. A.Das Gupta Economic and Commercial Geography, Mukhrjee and Co. Pvt.Ltd.-1978.
- 5. M.C.Agarwal Commercial Geography, Himalaya Publishing House, 1981.
- 6. B.S.Negi Economic and Commercial Geography of the World, S.Chand and Co.Ltd. 1980.

CORE - IX - WORLD REGIONAL GEOGRAPHY

- UNIT I Region Definition evolution of regional concept– characteristics of region – Types of region – Generic regions-Major generic regions - Formal – Functional - specific region.
- UNIT II Natural Region of the world- Meaning Criteria of delimitation of natural regions Tropical Regions Equatorial region savanna region or Sudan type tropical monsoon region-tropical deserts or Sahara type region.
- UNIT III Warm temperate regions- Mediterranean region temperate desert region- China type region.
- UNIT IV Cold temperate regions- prairie type region- west European region- St. Lawrence type region-
- UNIT V Cold regions- Taiga type- Tundra type- high mountain regions.

- 1. Heintzelman and Highsmith World Regional Geography > Prentice Hall, India 1965.
- 2. Don R.Hoy Geography and Development a World Regional Approach, Collier Mac Millan Publisher 1978.
- 3. Goh-Cheng leong- Certificate Human and Economic Geography Oxford University Publications 1995.

CORE - X - HUMAN GEOGRAPHY

- UNIT I Scope and content, definition different viewpoints concept of determinism, Possibilism and Probabilism Recent trends in human geography branches in human geography.
- UNIT II World cultural regions Food gatherers Semang and Sakai; Hunters Bushmen Cultivators People of the Malabar coast Nomads- Masai and levels of culture in twentieth century.
- UNIT III Human Races Classification Distribution Religion Major types and distribution.
- UNIT IV Population Spatial pattern of distribution growth problems of over population and under population population Theory Malthus and optimum theory Migration Causes consequences and problems.
- UNIT V Rural and Urban settlement factors types growth Urban morphology and functional classification of towns Urbanization Trend, level, World, India.

- 1. Majid Husain-Human Geography-Rawat Publications 1994.
- 2. Gillian C.Morgan Human and Economics Geography, Oxford University Publications 1999.
- 3. Aime Vincent Perpillou-Human Geography, Longman Group limited London 1977.

- 4. C.Daryll Forde-Habitat, Economy and Society, Methuen Publishers 1977.
- 5. Ray-M.Northam-Urban Geography, John Wiley and sons Publications 1979.

CORE - XI- GEOGRAPHY OF INDIA

- UNIT I Location Continent of unity in diversity- Relief drainageclimate-soil - types and distribution - Natural vegetationtypes and distribution.
- UNIT II Irrigation Need for Irrigation Types canal tank well Multipurpose projects.
- UNIT III Agriculture types Major crops- rice, wheat, millets, cotton, oilseeds, tea, coffee and jute Agricultural regions problems Animal husbandry.
- UNIT -IV Minerals coal, oil, iron ore, manganese, bauxite, copper Power resources Hydel, thermal and atomic Industries-Iron and Steel, Cement, Textile, Sugar, Paper, Shipbuilding Small scale and Cottage Industries.
- UNIT V Population Growth distribution- density and problems.-Transport and trade.

- 1. Ranjit Tirtha and Gopal Krishnan GeographyofIndiaRawatpublications, Jaipur-NewDelhi-1996.
- 2. Prithvish Nag and Smita Sengupta- Geography of India, Concept Publishing Company New Delhi-1999.
- 3. C.B. Mamoria- Geography of India, Shivalal Agarwala & Company-Agra-1975.
- 4. R.L. Singh India A Regional Geography, National Geographical Society of India, 1971.

CORE - XII - BASICS OF REMOTE SENSING AND GIS

- **UNIT I** Principles of remote sensing History.
- UNIT II EMR Electromagnetic spectrum energy interactions with atmosphere and earth surface features platforms types of remotely sensed data.
- UNIT III Aerial photographs types, elements and uses of aerial photographs photogrammetry.
- UNIT IV Satellite imagery Sensors Multi spectral Landsat Thematic Mapper LISS Comparison of maps with aerial photographs and satellite imageries.
- UNIT -V GIS Definition history components DBMS Geographic Database Hardware and Software Use of GIS raster and vector GPS history segments.

BOOKS FOR REFERENCE

- 1. C.S.Agarwal & P.K.Grag Text Book of Remote Sensing Wheeler Publishing 2000
- 2. Ball D.R. Babbage Geographic Information System for Defence Application Pergamon Press Australia
- 3. Barrette & Burough Principles of GIS for Land Resource Assessment Clarendon Press Oxford
- 4. Bidhanesh Misra Geographic Information System & Economic Development.
- 5. Gampbell. James B.I Introduction to Remote Sensing The Guild Press, New York

- 6. Curran Fundamentals of Remote Sensing Longman, London
- 7. Lan Heywod, Sarah Cornelines, An Introduction to Geographical Information System I Addison Wesley, Longman Ltd,2000 SEMESTER- V

CORE ELECTIVE – III- GEOGRAPHY OF TAMILNADU

- UNIT I Location relief Drainage Climate soil and Natural Vegetation.
- UNIT II Irrigation types multipurpose projects
- UNIT III Agriculture Rice Cotton Sugarcane Coffee Tea Agricultural regions.
- UNIT IV Minerals Iron Coal Bauxite; Industries textile Industries sugar Industry cement Industry Industrial regions.
- UNIT V Population growth, distribution, density and problems; Transport and Trade.

- 1. R.L. Singh India Regional Geography VBS publishers and Distributors Ltd., NewDelhi 1995.
- 2. Dr. A. Ramesh and P.S. Tiwari Basic Resource Atlas
 , University of Madras -1983
- 3. Poduval R.N Foodgrain Economy of TamilNadu Problems and Prospects, Emerald Publishers, Chennai 1987.
- 4. Velappan D Economic Development of TamilNadu Emeral Publishers, Chennai 1986.
- 5. Ranjet Tirtha & Gopala Krishnan Geography of India Rawat Publications, Jaipur 1996.
- 6. Prithvish Nag & Smitha Sengupta Geography of India Concept publishing company NewDelhi 1999.

7. Gopal Singh - Geography of India - Athma Ram & Sons, Delhi - 1988.

SEMESTER- V

SBE – IV - GEOGRAPHY OF HEALTH

- UNIT-I Geography of health- Nature, Scope, Significance and development.
- UNIT-II Geographical factors affecting human health- Physical Social and environmental Factors
- UNIT-III Classification of diseases- infectious, degenerative and chronic, inherited and genetic disease.
- UNIT-IV Geographical perspectives of Communicable and Non communicable diseases- disease mapping techniques at macro, meso and micro levels.
- UNIT- V Health care planning in India-Health care services-Primary health, family welfare and Immunization.

BOOKS FOR REFERENCE

- 1. Hunter, J.M The geography of Health and Diseases, paper of the first Caroline Geographical Symposium.
- 2. M.C.Glashan, M.D.- Medical Geography Techniques & Field Studies, Methuen University Paper Packs.
- 3. Shannan, G.W & Devar Gea Health Care Delivery Spatial perspectives, New York, Mecgrawhill.
- 4. White, K.L Health Services, Concept & information for national Planning and Management, WHO Geneva.
- 5. R.P. Misra Medical Geography of India , National Book trust, New Delhi

6. May J.M - Studies in Disease Ecology, Hefiner New York.

SEMESTER - VI

CORE - XIII - GEOGRAPHY OF RESOURCES - II

- UNIT I Agriculture types intensive, extensive, wet and dry, mixed farming, subsistence farming, commercial farming and plantation agriculture.
- UNIT II Energy as a resource coal, oil, water and a nuclear power, non conventional solar and wind.
- UNIT III Minerals ferrous, non ferrous iron ore, manganese, mica, copper and bauxite.
- UNIT IV Major Industries location factors, iron and steel, automobile, shipbuilding and textile industries.
- UNIT V Transport land, water and air trade internal and international.

- 1. Prithvish Roy & Somnath mukerjee Economic geography an appraisal of resources, new central book agency, culcutta-700 009.
- 2. V.K. Gupta Economic and Commercial Geography, Sultan Chand and Sons, 1977.
- 3. S.K. Sadhukhan Economic Geography an Appraisal of resources, S.Chand and company Ltd.-1982.
- 4. A.Das Gupta Economic and Commercial Geography, Mukhrjee and Co. Pvt.Ltd.-1978.
- 5. M.C.Agarwal Commercial Geography, Himalaya Publishing House, 1981.

6. B.S.Negi – Economic and Commercial Geography of the World, S.Chand and Co.Ltd. 1980.

SEMESTER - VI

CORE - XIV- REGIONAL GEOGRAPHY OF NORTH AMERICA

- UNIT I Relief The Canadian shield Western mountains- interior plains- Appalachian mountains coastal plains drainage- The Artic Pacific Atlantic and Inland drainage systems- climate- Winter- Summer climatic regions soil- Major types natural vegetation major natural vegetation zones of North America.
- UNIT II Agriculture-Main crops wheat- rice corn cotton tobacco sugarcane- sugar beet-Agricultural regions of North America.
- UNIT III Mineral and power resources- iron ore, -copper- zinc-lead- gold-coal-petroleum-natural gas- hydroelectricity- Industries- iron and steel- cotton textile-woollen automobile- ship building air craft- chemical industries.
- UNIT IV Population distribution-density-problems- urbanization.
- UNIT V Transport-land, water and air Trade.

- 1. Jone S and Briyan North America Methuen. 1963
- 2. Paterson North America Oxford University Press 1984
- 3. White C Regional Geography of Anglo America, Methuen -1979
- 4. B.S. Negi Economic and Commercial Geography of the World, S. Chand and Company Ltd., 1982.

5. S.K. Sadhukhan – Economic Geography and appraisal of resources Chand S and company Ltd., - 1982.

SEMESTER - VI

CORE - XV - GEOGRAPHICAL THOUGHT

- UNIT I Prehistory of geographical ideas Greek, Roman, Arab impact of exploration and discoveries.
- UNIT II Modern geographical thought American, British, German, French development of geography of India
- UNIT III Dualism and dichotomy in Geography physical Vs human, determinism Vs possibilism, qualitative Vs quantitative,
- UNIT IV Recent trends in geography tradition in geography quantitative revolutions regional concepts.
- UNIT V New synthesis in geography multi disciplinary approach role of remote sensing GPS and GIS

- 1. Negi B.S. Geographical thought Karinath Ramnath meerat 1994.
- 2. Freeman. R. Hundred Years of geography Hutchinson London 1970.
- 3. Harvey D. explanation to geography Edward Arnold publication, London.

CORE – XVI –PRACTICAL – III SOCIO ECONOMIC DIAGRAMS, MAP AND IMAGE INTERPRETATION

- UNIT I Population represented by bar and pie diagrams Population Distribution Density maps- dot map-located bar Sphere diagrams Star diagrams
- UNIT II Pyramidal diagrams Scatter diagram Graphs- Simple, multiple graphs- Lorenz curve Traffic flow diagrams.
- UNIT III Conventional signs and symbols in topographical maps, NATMO maps and ordinance survey maps.
- UNIT IV Isopleth and Choropleth maps construction and interpretation- Interpretation of SOI Topographic sheets Relief features, land use, settlement and transportation and vegetation type.
- UNIT -V Interpretation of NATMO maps Ordinance survey maps Interpretation of aerial photographs and satellite images.

- 1. Dr.M. Kudrat Digital Remote Sensing concept publishing company, NewDelhi 1998.
- 2. K.K. Rampal Handbook of Aerial Photography and Interpretation concept publishing company, NewDelhi-1999.
- 3. R.K.Banerjee Bireswar Banerjee Remote Sensing Techniques for Regional Development Ashok Kumar Mittal Concept publishing Company 2000.

- 4. R.P.Misra, A. Ramesh Fundamentals of cartography concept publishing company 2000.
- 5. Paul. J. Curran-Principles of Remote Sensing -Longman Group UK Ltd. 1985.

CORE – XVII – PRACTICAL – IV - FUNDAMENTALS OF MAP PROJECTIONS AND PRINCIPLES OF SURVEY

- UNIT I Map Projections Meaning and use classification of map Projections.
- UNIT II Projections (graphical methods only) Zenithal Projection (Polar case only)
- UNIT III Cylindrical projection types Conical projections one standard - two standard parallel - Polyconic - Bonne's Projection - Sinusoidal and Mollweide's - choice of projections
- UNIT IV Principles of survey Chain, Prismatic Compass, Plane Table, Indian Clinometer, Dumpy level and GPS.

- 1. M. Ishtiaq- Practical Geography-published by Jawahar publishers and Distributors-1994.
- 2. F.J. Monkhouse and H.R. Wilkinson-Maps and Diagrams-B.I.Publications-1952.
- 3. MD.Zulfequar Ahmad Khan-Text Book of Practical Geography-Concept Publishing Company, New Delhi-1998.

- 4. Gopal singh-Map work and practical geography- Vikas publishing House pvt.Ltd-1996.
- 5. R.L Singh Elements of Practical Geography, Kalyani publishers, 1979

SBE - IV - BIOGEOGRAPHY

- UNIT I Definition, scope and significance of biogeography basic ecological concepts and principles ecosystem types of ecosystems components of ecosystem functioning of ecosystem concepts of biome types, ecotone and community bio diversity.
- UNIT II Origin of fauna and flora plant and animal evolution through geological times, distribution of plant life on earth and its relation to soil types climates and human practices.
- UNIT III Problem of extinction of plant and animal life habitat decay and their conservation process of desertification its consequences and its management principles.
- UNIT IV Industrial effluent and its effect on fresh water biology management practices (special reference to India)
- UNIT V Study of ecological regions of Himalayas and Western Ghats in relations to their plant and animal life, their Interrelations, problems conservation and management measures.

- 1. Robinson Biogeography ELBS Mc Donald and Evans London, 1982
- 2. L.G. Simons Biogeographically process Allen and Unwell, London.
- 3. C Barry Cox, Black Well Biographical an Ecological Evolutionary approach Oxford 1977
- 4. B,Seddon Biogeography Duck worth, London 1971. SEMESTER VI

CORE ELECTIVE – IV - REGIONAL PLANNING

- UNIT I Geography and Regional planning: basic concepts Geographic space and regions concept and regions types of regions goals and objectives of regional planning process
- UNIT II Approaches to regional planning analysis: systems concept; Spatial temporal dimensions – grouping of dimensions in regional analysis methods of Indian regional problems.
- UNIT III Planning in India; historical development appraisal of five year planning and annual plans dimension- regional imbalances- development programme; command area, drought prone, metropolitan, river valley, tribal and hill area
- UNIT-IV Regional planning in Tamilnadu; evaluation of regional planning- planning regions backward area development metropolitan, rural planning local planning authorities 73rd and 74th amendment of constitution of India Powers and functions of Nagar Panchayat, municipal council and Municipal Corporation.
- UNIT-V Town planning: basic concepts of town planning need of town planning functions of town planning activities in Tamilnadu.

REFERENCE BOOKS

1. Misra R.P (1971) Regional Planning: Concept Techniques. Politics and case studies. University Mysore, Mysore

- 2. Misra R.P., Sundaram K.V. and V.L.S Prakasa Rao (1974); regional development in India, Vikas publishing house, New Delhi
- 3. V.L.S Prakasa Rao (1963); regional planning, Asia publishing house, Kolkatta.