B.A. Geography

DISTRIBUTION OF DIFFERENT COURSES AND CREDITS IN VARIOUS SEMESTERS

Offered By:

Department of Geography
Faculty of Arts
Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur

Course Code: GEO 101	
Course Title: Basics of Geography	
Credits: 2	+0
Unit	Topic
I	Meaning, Scope and branches of Geography, Earth Origin Theories: Classic and Modern, Origin
	of the Continent, Ocean and Atmosphere, Geological Time Scale.
II	Meaning & Scope; Evolution; Principles and Approaches of Human Geography; Elements of
	Human Geography with Special Reference to Jean Brunhes and Huntington.

Course Co	Course Code: GEO 102	
Course Ti	Course Title: Physical Geography	
Credits: 4+0		
Unit	Topic	
I	Nature, Scope & Branches of Physical Geography. Earth's Interior: Structure; Isostasy;	
	Continental drift; Concept of Plate Tectonics.	
II	Folding & Faulting, Earthquakes and Volcanoes types; Denudation; Fluvial Landforms.	
III	Composition and structure of atmosphere; Vertical & Horizontal distribution of	
	Temperature; Air Pressure and Winds. Koppen's Climatic Classification	
IV	Major relief features of Ocean Basin; Temperature; Salinity and Major oceanic current;	
	Coral Reefs & Atolls, Tide.	

Course Code: GEO 103	
Course Title: Elements of Map reading and Interpretation	
Credits: 0	+2
Unit	Topic
I	Cartography - Nature and Scope; Scales-Comparative; Diagonal &Vernier Scale; Study and
	interpretation of Topographical Map (Mountain, Plateau & Plain) with the help of Cross and
	Longitudinal Profiles.
II	Map Projections- Classification and their Properties- Conical with Two Standard Parallel,
	Bonne's; Cylindrical Equal Area, Mercator's, Polar Zenithal Equal Area.

Course Code: GEO 104		
Course Ti	Course Title: Human Geography	
Credits: 4+0		
Unit	Topic	
I	Man and Environment Relationships- Determinism, Possibilism, Neo-determinism, Evolution of	
	Man, Man's Spread Over Globe During Pleistocene; Human Races.	
II	World Tribes- Pygmies, Kirghiz, Eskimos, Bushmen, Indian Tribes- Gond, Gaddi, Tharu and	
	Santhal;	
III	Distribution of population, global migration causes and consequences, concept of over,	
	under, and optimum population. Population Growth Theories: Malthus and Demographic	
	Transition Theory	
IV	Human Settlements: - Rural Settlements- Types and Patterns with Special Reference to India;	
	Urban Settlements- Trend & Pattern of Urbanization in the World;	

Course Code: GEO 105	
Course Title: Thematic, Weather and Geological Maps	
Credits: 0+2	
Unit	Topic
I	Maps – Classification and Types; Principles of Map Design.
	Diagrammatic Data Presentation – Line diagram,, Bar diagram and Circle diagram, Pie
	diagram
II	Thematic Mapping Techniques – Properties, Uses and Limitations;
	Maps Preparation- Isopleths, Choropleth, Dot
III	Weather Maps, Study and Interpretation of Indian Weather Map, Weather
	Forecasting.
IV	Geological Maps: Types, Signs, Bed and Bedding plane, Rock
	Outcrop, Dip, Strike etc. Construction of Geological Sections- Horizontal, Inclined and
	Folded.

Course Code: GEO 201		
Course Ti	Course Title: Environment, Disaster Management and Climate Change	
Credits: 4	Credits: 4+0	
Unit	Topic	
I	Environment: Concept and component; Ecosystem: Concepts, types & components, Trophic level	
	and Energy flow, Concept of Biogeochemical Cycle;	
II	Environmental Degradation; Causes and consequences of Deforestation, soil erosion; Pollution:	
	Air & water pollution;	
III	Environmental Hazard: Concept & typology; Earthquake, Flood, Cyclone & Drought; Concept of	
	Disaster Management.	
IV	Climate Change, Green house effects & Global warming, Ozone depletion.	

Course Code: GEO 202		
Course Ti	Course Title: Statistical Techniques in Geography	
Credits: 0+2		
Unit	Topic	
I	Types & Sources Data in Geography; Significance of Statistical Methods in Geography;	
	Scales of Measurement (Nominal, Ordinal, Interval, Ratio)	
II	Tabulation and Illustration: Frequency Distribution Table, Cross Tabulation, Graphical	
	Presentation of Data; Histograms, Frequency Curve and Cumulative Frequency Curves,	
III	Measurement of Central Tendencies; Mean, Median Mode and Standard Deviation, Z	
	score	
IV	Correlation: Rank Correlation and Simple Regression	

Course Code: GEO 203		
Course Title: Economic Geography		
Credits: 4-	Credits: 4+0	
Unit	Торіс	
I	Meaning, concepts and approaches of Economic Geography; Resources: meaning,	
	concept and classification.	
II	Types of Economic Activities; Distribution and Production of Major Crops: Wheat,	
	Rice, and Tea; Agricultural region of the world of DerwentWhittlesey. Agricultural	
	and land use model of J.H.VonThunen.	
III	Distribution and Production of Minerals: Iron ore, Coal and Petroleum. Theory of	
	industrial location (Alfred Weber), Types of industries; Distribution of Iron & steel	
	industryand Cotton textiles with reference to USA, Western Europe and Japan,	
IV	WTO and International trade: Patterns and trends. Effect of globalization on developing	
	countries	

Course Code: GEO 204		
Course Ti	Course Title: Surveying	
Credits: 0+2		
Unit	Topic	
I	Meaning, Types of Surveying's, Measurements Scale	
II	(i) Plane Tables Survey- Radial, Intersection and Traverse Methods	
	(ii) Prismatic Compass Survey- Radial, Intersection and Traverse Methods	
	(iii) Indian Clinometer	
	(iv) Sextant	

Course Code: GEO 301		
Course Title: Regional Geography		
Credits: 4-	Credits: 4+0	
Unit	Торіс	
I	Definition of Region, Formal, Functional and Planning Region	
	Criteria for the delineation of Region.	
II	Concept of Regional planning. Types of Regional planning Need for regional	
	planning in India.	
III	Theories and Models for Regional Planning: Growth Pole Model of	
	Perroux; Myrdal and Rostow	
IV	Concept of development and under development; Indicators of development:	
	Economic, Social and Environmental. Sustainable Development.	

Course C	ode: GEO 302
Course Ti	itle: Basics of Remote Sensing and GIS
Credits: 4	+0
Unit	Topic
I	Meaning, Definition & History of Remote Sensing, Types of sensor
II	Remote Sensing Mechanism; Principles of Remote Sensing, EMR Interaction with
	Atmosphere and Earth Surface
III	GIS Introduction, Definition and Components, Data Types of spatial and Non-spatial,
	Raster, Vector Data and Attribute data
IV	History of Aerial Photography, Principle, Types and Geometry of Aerial photograph;
	Introduction of Satellite derived Data.

Course Co	ode: GEO 303
Course Title: Tour and Tour report	
Credits: 0+2	
Unit	Topic
I	Various aspects of study in Field Tour, Preparation of Surveying in Field Study,
	Methods for preparing field report/ Educational Excursion Report.

Course Code: GEO 304		
Course Title: Project Report-1		
Credits: 0+3		
Unit	Торіс	
I	Meaning, types and significance of Research, Literature review, Research	
	problem, objectives, and formulation of research design.	
II	Sources of Data: Primary and Secondary; Sampling: Probability and Non	
	Probability. Research methods	
III	Techniques of writing scientific reports: Preparing notes, references,	
	bibliography, abstract and key words	

Course Code: GEO 305		
Course Title: Geography of India		
Credits: 4+0		
Unit	Торіс	
I	Physiography; Drainage; Origin and mechanism of Indian Monsoon; Koppen's Climatic	
	Classification; Soils & Natural Vegetation.	
II	Population Growth, Distribution and Pattern; Major Agricultural Crops- Paddy, Wheat, Cotton	
	and Tea, Agricultural Region; Green Revolution.	
III	Industry: Evolution of industries;; Major Industries: Iron & steel, Cotton Textiles, Industrial	
	regions, Mineral Resources - Iron- ore, and Power Resources - Coal, Petroleum, Non-	
	conventional power resource	
IV	Settlements: rural/ & urban settlements Types and pattern; Functional classification of Indian	
	town; Urbanization in India- Problems and Prospects	

Course Code: GEO 306		
Course Title: Evolution of Geographical Thoughts		
Credits: 4+0		
Unit	Topic	
I	Development of Geography in ancient period, Indian Geographical Knowledge during Vedic, Epic	
	and Puranic Period. Contributions Indian Geographer; Contributions of Greek and Roman	
	Geographers; Contribution of Arab geographers.	
II	Renaissance and Period of Geographical Discoveries; German School of Geography: Contribution	
	of Humboldt, K. Ritter, F. Ratzel, French School of Geography, Contribution of VDL Blache and	
	J. Brunhes.	
III	Contribution of Soviet Geographers, American School- Contribution of Davis, Semple,	
	Huntington, Carl Sauer; British School- Contribution of Mackinder, Herbertson and L.D.Stamp.	
IV	Nature and Scope of Geography, Dualism in Geography, Recent Trends of Geography, Progress of	
	Geography of India.	

Course Code: GEO 307		
Course Title: Remote Sensing and GIS		
Credits: 0+2		
Unit	Topic	
I	Concepts of Aerial-photogrammetry; Introduction to Elements of Photographic System:	
	Scale, Concept of Relief Displacement, Image Parallax, Ortho Photo.	
II	Introduction of GIS; Data Types: spatial and Non-spatial, GPS: Fundamentals, Types	
	and Uses	
III	Image Processing (Digital/ Manual) and Data Analysis; Geo-Referencing	
	Radiometric and Geometric Correction, Classification: Supervised and Un-supervised;	
	Topology: concept and type	
IV	Interpretation of satellite derived data and Application of Remote Sensing and GIS: Land	
	use/ Land Cover Analysis	

Course Code: GEO 308		
Course Title: Project Report 2		
Credits: 0+3		
Unit	Topic	
I	Project report shall be on Socio-Economic Survey as per the study area.3	