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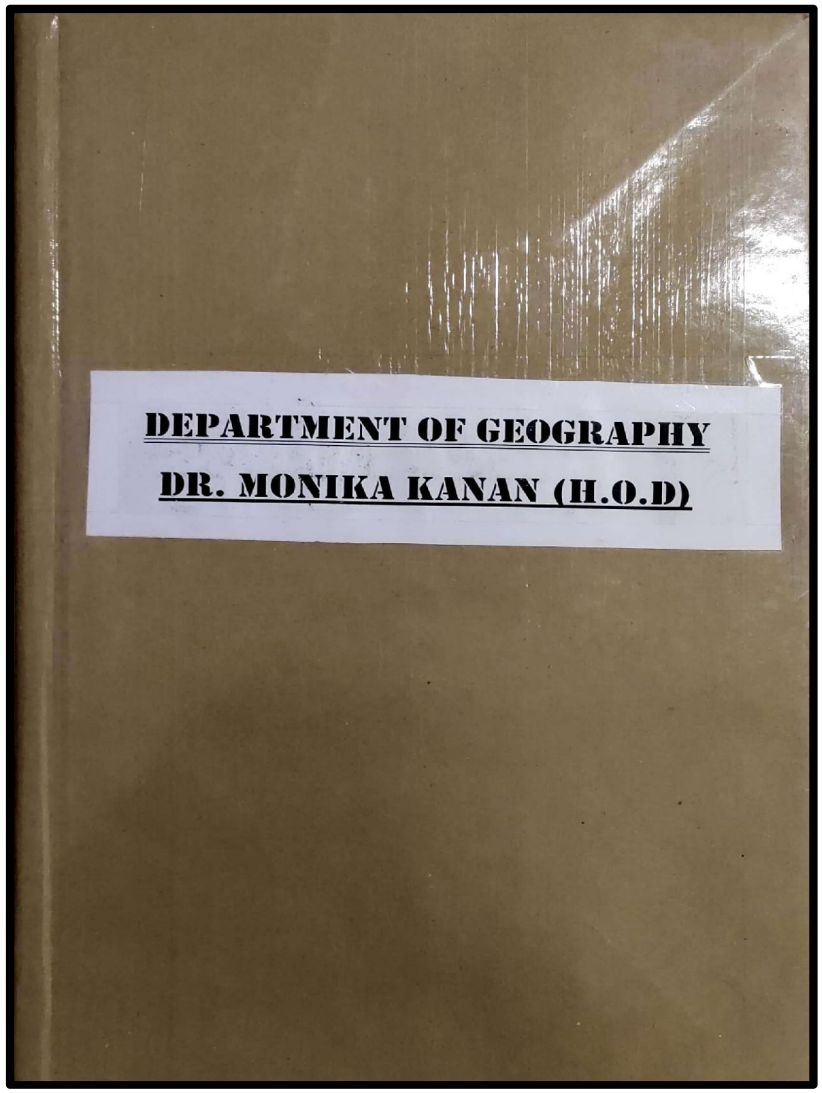

COURSE_PLAN_2018-19_DR_MONIKA_KANNAN

SOPHIA GIRL'S COLLEGE, AJMER (*AUTONOMOUS*)

B.A SEMESTER I

GEOGRAPHY OF RAJASTHAN (PAPER II) (GEO-102)

Marks : 75 (50Ext; 25 Int) Min. Marks: 30(20 Ext;10 Int) Credit: 03

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I JULY	**UNIT I** Geological structure; Physiography; Climate: Climatic conditions, Climatic regions; Drainage: Rivers and Lakes;	Water divide of India, Windward and Leeward.	PPT, Chart, Maps, Quiz.	Classify and understand the physiographic divisions of Rajasthan.	*Knowledge Based* Elaborate the Physiographical features of Rajasthan. Write a note on desertification in Rajasthan. *Understanding Based* Discuss the factors affecting population density in Rajasthan. *Higher Order Thinking Skills Based* Justify the present distribution of power resources with the help of suitable map.	Knowledge--60 Understanding-20 Higher Order-20
	Soil: Classification and distribution of Soils; Animal Resource: Dairy Development; Drought and Famine, Desertification;	Badlands, Sand dunes, Soil profile.	Maps, Quiz, Diagrams.			
	Vegetation: Factors affecting, Types of forests; their conservation.	Climate change, saline soils.	Maps, Flow Charts.			
AUGUST	**UNIT II** Population: Qualitative and Quantitative aspects, Population Problems and Measures;	Sex ratios, Gender issues.	Diagrams, Tables and flow charts.	Enumerate the qualitative and quantitative aspects of population and determine the agricultural regions of Rajasthan.		
	Tribes of Rajasthan: Saharia, Meena, Bhils and Garasia, their problems and programmes for their development; Agriculture:	Social structure of tribes.	Diagrams, PPT's.			
	Major crops-Bajra, Wheat, Gram, Jowar, Maize, Barley, Cash crops: Sugar cane, Cotton, Oil seeds, Agricultural Regions of the State. Dry farming.	Dryland Farming, Water Logging.	Maps, Diagrams, Flip Learning.			
SEPTEMBER-OCTOBER	**UNIT III** Mineral Resources: Distribution of Metallic Minerals: Iron-ore, Zinc, Manganese, Lead, Silver, Copper, Tungsten.	Illegal mining, geological structure, rocks types.	through rock samples.	List the major metallic, non-metallic resources and correlate with industrial development of the state.		
	Non-Metallic: Gypsum, Mica, Manganese, Limestone, Marble; Power Resources- Coal, Petrol, Natural gas, Hydroelectricity, Wind, Atomic, Biogas etc., Problems and Measures;	Coke, charcoal, metamorphism, continental shelf, sustainable utilization.	PPT, Demonstration			
	Industrial development: Cotton textile, Cement and Stone Industry; Transport of Rajasthan.	Availability of Resources, Mineral extraction, Localization factors.	PPT, Case Studies, Flipped Classroom			

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B.A SEMESTER III

GEOGRAPHY OF INDIA-I (PAPER II) (GEO-302)

x. Marks : 75 (50Ext; 25 Int) Min. Marks: 30(20 Ext;10 Int) Credit: 03 Duration: $2^{1/2}$ hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM I JULY	UNIT I India in the context of Southeast and South Asia;	McMohan line, Durand Line, Land locked countries.	PPT, Chart, Maps, Quiz.	Identify physiographic regions of India and schematize the river systems of India.	*Knowledge Based* 1. Explain the importance of India in the context of South Asia. 2. Illustrate the drainage systems of India. *Understanding Based* 1. Critically evaluate the mechanism of monsoons in India. 2. Discuss the vegetation conservation measures. *Higher Order Thinking Skills Based* 1. Discuss the importance of India for land locked Asian countries.	Knowledge--50 Understanding-35 Higher Order-15
	India: a land of diversities; Unity within diversities;	Regional diversities, physical diversities.	Charts, Maps, Quiz, Demonstration			
	Major terrain elements of India and their role in shaping physical landscape of India; Drainage systems.	Geosyncline, Antecedent and subsequent.	Maps, Flow Charts, Diagrams.			
AUGUST	UNIT II Regional and seasonal variations of climate - The Monsoon, Western Disturbance, Norwesters;	Windward and leeward sides, Pre monsoonal showers.	Diagrams, Models, demonstration through Globe	Describe factors affecting Indian monsoon system.		
	Climatic regions of India; Soil types of India, their distribution and characteristics;	Soil horizon, erosion.	Diagrams, Models, PPT, Maps.			
	Vegetation types and their distribution and Conservation.	Biomes, reforestation.	Maps, Diagrams, Models, Demonstration			
SEPTEMBER-OCTOBER	UNIT III Major Minerals: Metallic-Iron, Manganese, Copper, Zinc, Tungston, Bauxite, Gold,	Illegal mining, geological structure, rocks types.	Demonstration through rock samples	Classify the major metallic and non-metallic minerals of India.		
	Silver; Non Metallic Minerals - Mica, Limestone;	metamorphism, continental shelf, sustainable utilization.	PPT, Demonstration			
	Atomic Minerals and Conservation.	Availability of Resources, extraction, Localization factors.	PPT, Case Studies, Flipped Classroom			

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M. A/M.Sc GEOGRAPHY (Previous) SEMESTER I

POLITICAL GEOGRAPHY (GEOM-104)

Max Marks: 100 (70Ext; 30 Int) **Min. Marks: 40(28 Ext;12 Int)**

Credits: 06 **Duration: 03 hrs**

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I JULY	**UNIT I** Nature, Scope, Objectives and Recent Development;	Geopolitics, Lebensraum	PPT, Chart, Maps,	Identify elements of political geography for understanding the formation of state.	*Knowledge Based* Explain the recent developments of political geography. *Understanding Based* Compare the various themes of political geography to help evaluate the emerging world power. *Higher Order Thinking Skills Based* Justify the present the geopolitical dimensions and evaluate the need for regional cooperation.	Knowledge--40 Understanding-30 Higher Order-30
	Approaches; Major Schools of thought;	Evolution of political thought.	Quiz, Demonstration			
	Elements of the State: Physical, Human, Economic; Geopolitics.	Factors influencing political factors.	Maps, Flow Charts			
AUGUST	**UNIT II** Themes in Political Geography: State, Nation. Nation-State and Nation-building;	Concept of state and nation.	Diagrams, Models, demonstration through Globe	Compare the various themes of political geography to help evaluate the emerging world power.		
	Frontiers and Boundaries, Colonialism, Decolonization and Neo-colonialism;	Natural Boundaries, imperialism.	Diagrams, Models, demonstration through Globe			
	Unitary, Federal Systems and other forms of Governance; Core-Periphery Concept.	Political setups.	Maps, Diagrams, Models, Demonstration			
SEPTEMBER-OCTOBER	**UNIT III** Geopolitical significance of Indian Ocean;	International relations of the Rim-regions, String of pearls.	PPT, Demonstration	Understand the geopolitical dimensions and evaluate the need for regional cooperation.		
	Importance of SAARC Region; The changing political map of India;	CPEC, ASEAN.	PPT, Demonstration			
	Major Indo-China and Indo-Pakistan Border disputes.	Latest Boundary disputes.	PPT, Case Studies, Flipped Classroom			

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M. A/M.Sc GEOGRAPHY — SEMESTER I

PRACTICAL GEOGRAPHY — (GEOM-105)

Max Marks: 100 (70Ext; 30 Int) — **Min. Marks: 40(28 Ext;12 Int)**

Credits: 06 — **Duration: 03 hrs**

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I JULY AUGUST	The Art and science of Cartography: History of Maps, Types and uses of Cartographic symbols- point, line and area symbols.	Basic mathematics, Tables, Conversion Units	Exercises with Use of Wooden Geometry Box, Demonstration	Create, develop and interpret weather maps and understanding of the Topographical landscapes in consonance to Survey of India Toposheets and asses their regional differentiation s	*Knowledge Based* Practical File Work *Understanding Based* Lab exercises Draw a Plain Scale on R.F 1:50,000 *Higher Order Thinking Skills Based* Interpret and develop a Profile for the given region? Viva Voce	Knowledge--20 Understanding-50 Higher Order-30
	Weather maps: Study and interpretation of January and July months. Study of Topographical sheets: Scheme of Indian Toposheets.	Topographical understanding, Landform distribution	Demonstration with 3 D Models, Tracing Table			
SEPTEMBER-OCTOBER	Data: Types, Sources and Tabulation; Graphical Representation. Graphs: Frequency Curve, Frequency Polygon, Histogram, Ogive. Diagrams: Simple and Compound wind rose, Climograph, Hythergraph and Climatograph.	Slopes, Areal topographical interpretation	Demonstration and Lab exercises with Video Animations			

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M. A/M.Sc GEOGRAPHY (Final) SEMESTER III

AGRICULTURAL GEOGRAPHY (a) (GEOM-301)

Max Marks: 100(70Ext; 30 Int) Min. Marks: 40(28 Ext;12 Int) Credits: 06 Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I JULY	UNIT I Nature and scope; development of agricultural geography;	Origin and dispersal of agriculture.	PPT, Chart, Maps, Visual 3- D Models	Trace the development of agricultural geography as a subject and analyze the sources of agricultural data.	*Knowledge Based* Summarize the development of agricultural geography. *Understanding Based* Examine the determinants of agricultural land use. *Higher Order Thinking Skills Based* Discuss the problems and solutions of contemporary Issues in Agriculture.	Knowledge--30 Understanding-40 Higher Order-30
	Approaches to the study of agricultural geography: Origin and dispersal of agriculture;	Agricultural regionalisation.	Match the following, Quiz,			
	Sources of agricultural data; Determinants of agricultural land use - Physical, economic, social, and technological.	agricultural productivity.	Maps, Flow Charts			
AUGUST	UNIT II Agricultural concepts and their measurements: cropping pattern, crop concentration, crop productivity,	Cropping efficiency.	Diagrams, Models, demonstration through Globe	Distinguish agricultural concepts and theories for the classification of agricultural regions.		
	crop diversification, crop combination regions and agricultural development; Theories of agricultural location based on several multi-dimensioned factors:	Locational Rent, isostate	Diagrams, Models,			
	Von Thunen's theory of agricultural location and its recent modifications; Whittlesey's classification of agricultural regions.	topography and climate.	Maps, Diagrams, Models,			
SEPTEMBER-OCTOBER	UNIT III Land use and land capability; Green Revolution and White Revolution; nutritional index.	Land productivity.	Diagrams, Models,	Examine the contemporary issues and discuss the agricultural policies of India.		
	Agricultural Policy in India. Contemporary Issues: Food security, drought and food security,	Regional planning and management.	PPT, Demonstration			
	food aid programmes; environmental degradation.	Environmental concerns.	PPT, Case Studies,			

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B.A SEMESTER V
PRACTICAL - (PAPER III) (GEO-503)
Max. Marks: 50(40Ext; 10 Int) Min Marks: 20(16 Ext;4 Int)
Credits: 02 Duration: 5 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I JULY	**Field Surveys:** Plane table Survey: Importance, Instruments used, Methods: Radiation, Intersection, Resection (Two and Three point Problems). Mechanical method, Llano's, Bessel's and Trial and Error.	Basic mathematics, Tables, Conversion Units	Exercises with Use of Wooden Geometry Box, Demonstration	Demonstrate survey techniques of creating field plans using Plane table and prismatic compass survey method.	*Knowledge Based* Practical File Work *Understanding Based* Lab exercises Draw a Plain Scale on R.F 1:50,000 *Higher Order Thinking Skills Based* Interpret and develop a Profile for the given region? Viva Voce	Knowledge--30 Understanding-50 Higher Order-20
AUGUST	Prismatic Compass Survey: Importance, Instruments used, Methods: Radiation, Intersection, Traversing (Open and Closed),	Topographical understanding, Landform distribution, Slopes.	Demonstration with 3 D Models, Tracing Table			
SEPTEMBER-OCTOBER	Correction of Bearing and Removal of closing error-Bowditch. Calculation of WCB.	Slopes, Areal topographical interpretation	Demonstration and Lab exercises with Video Animations			

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B.A SEMESTER II

PHYSICAL GEOGRAPHY –II PAPER I (GEO-201) (Climatology and Oceanography)

Max. Marks : 75 (50Ext; 25 Int) Min. Marks: 30(20 Ext;10 Int) Credit: 03 Duration: $2^{1/2}$ hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM II DEC	Definition and significance of Climatology; Composition and structure of the atmosphere;	Concept of Climate and Weather,	PPT, Chart, Maps, Visual 3- D Models	Understand the meaning and significance of climatology.	*Knowledge Based* 1. Illustrate the composition and structure of atmosphere. 2. Distinguish between planetary and periodic winds. *Understanding Based* 1. Discuss the horizontal and vertical distribution of temperature. 2. Define cyclones and their types. *Higher Order Thinking Skills Based* 1. Explain the origin and development of coral reefs. 2. Discuss the importance ocean currents.	Knowledge—55 Understanding-30 Higher Order-15
	Atmospheric Temperature: Vertical and Horizontal distribution of temperature;	State Conversions, Relationship between Temperature and pressure	Match the following, Quiz, Demonstration			
	Atmospheric pressure and Pressure belts; Winds: Planetary, Periodic and Local winds; Hydrological cycle.	Global Climatic Zones	Maps, Flow Charts			
JAN	**UNIT II** Air masses; Fronts: Concept, classification and properties; Cyclones: Tropical and Temperate cyclones;	Atmospheric Circulations	Diagrams, Models, demonstration through Globe.	Explain various climatic phenomenon and deduce measures to control global warming.		
	Climatic classification of Koppen's and Thornwait's Role of Climate in human life;	Pressure circulation, Western Disturbances.	Diagrams, Models, demonstration through Globe.			
	Atmospheric pollution and Global warming – general causes, consequences and measures of control.	Ozone depletion, Greenhouse gases.	Maps, Diagrams, Models, Demonstration			
FEB TO MARCH	**UNIT III** Definition and significance of oceanography; Surface configuration of the ocean floor; Relief of Atlantic, Pacific and Indian Oceans;	Plate movements, Formation of Trenches.	PPT, Maps and diagrams.	Define oceanography and elaborate the significance of oceans.		
	Distribution of Temperature; Salinity of oceans and seas; Circulation of oceanic waters: Tides and Currents: Currents of the Atlantic, Pacific and Indian oceans;	Factors affecting salinity, Fishing Grounds.	PPT, Demonstration			
	Marine deposits and coral reefs; Oceans as storehouse of resources for the future.	Great Barrier Reef,	PPT, Flipped Classroom.			

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B.A SEMESTER II

PRACTICALS SOCIO-ECONOMIC SURVEY (GEO-203)

Max. Marks: 50(40Ext; 10 Int) Min Marks: 20(16 Ext;4 Int) Credits: 02 Duration: 5 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM II DEC	Methods of Field work: Types of data, Techniques of primary data collection: Sampling, Preparation of a questionnaire. Significance of field work in Geographical studies.	Basic mathematics, Tables, Conversion Units	Exercises with Use of Wooden Geometry Box, Demonstration	Critically appraise the socio-economic scenario of the surveyed area with graphical and diagrammatic representation of the demographic and economic data.	*Knowledge Based* Practical File Work	Knowledge--30
JAN	Conduct a socio-economic survey of the Village Households with the help of a questionnaire. Supplement the information by personal observations and perceptions.	Topographical understanding, Landform distribution.	Demonstration, Tracing Table.			Understanding-50
FEB To MARCH	Based on the results of socio-economic and land use enquiry, prepare a Field Survey Report for the Village. Maps, diagrams, photographs and sketches should support the report.	Areal topographical interpretation.	Demonstration and Lab exercises with Video Animations.			Higher Order-20

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B.A SEMESTER IV

GEOGRAPHY OF INDIA-II (PAPER II) (GEO-402)

Max. Marks : 75 (50Ext; 25 Int) Min. Marks: 30(20 Ext;10 Int) Credit: 03 Duration: $2^{1/2}$ hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM IV DEC	**UNIT I** Conventional sources of energy- Coal- Types, Distribution and Production. Petroleum- Origin, Reserves and Production.	Illegal mining, geological structure, rocks types.	PPT, Chart, Maps, Visual 3-D Models	Identify conventional and non-conventional sources of energy.	*Knowledge Based* 1. Sketch the coal distribution in India. 2. Illustrate the different types of non-conventional sources of energy. *Understanding Based* 1. Discuss the essential conditions required for Sugarcane. 2. Classify the major industrial regions of India with examples. *Higher Order Thinking Skills Based* 3. Justify the present distribution population in India. 4. Critically evaluate the concepts of Smart City.	Knowledge--40 Understanding-40 Higher Order-20
	Natural Gas- Reserves and Production, Nuclear Energy: Distribution and Production, their conservation;	metamorphism, sustainable utilization.	Match the following, Quiz,			
	Non-Conventional Sources of Energy: Solar, Wind, Tidal and Bio Gas.	Mineral extraction,	Maps, Flow Charts			
JAN	**UNIT II** Agriculture- Major Crops: Rice, Wheat, Sugar Cane, Cotton, Jute, Tea, Coffee (Essential conditions required and their production);	Soils, geological structure, Importance of humus and organic matter.	Diagrams, Models, demonstration through Globe	Classify major industrial regions and major crops of India.		
	Green Revolution; Industries- Iron and steel, textile, cement, paper and pulp.	continental shelf, sustainability.	Diagrams, Models, Globe			
	Major Industrial regions of India.	Availability of Resources.	Maps, Diagrams,			
FEB TO MARCH	**UNIT III** Population: Spatial distribution, growth and density; population explosion;	Urban sprawl, migration, birth rate.	Maps, Diagrams,	Interpret the spatial distribution pattern of population in India and classify planning regions.		
	Ecumene, urbanization- Smart city concept;	Urban sprawl, sustainable development.	PPT, Demonstration			
	Regional Planning in India - macro, meso and micro - regions of India.	Hinterland, Fringe, Periphery.	PPT, Case Studies.			

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B.A III (SEMESTER VI)

REGIONAL GEOGRAPHY OF THE WORLD:

(Egypt, China and Australia) (PAPER II) (GEO-602)

Max. Marks : 75 (50Ext; 25 Int) Min. Marks: 30(20 Ext;10 Int) Credit: 03 Duration: $2^{1/2}$ hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM VI DEC	**UNIT I** Egypt: Physiography, Drainage-Nile Valley, Climate, Natural Vegetation, Agriculture, Irrigation projects,	Geology, Deserts, Drylands, Nile river basin.	PPT, Chart, Maps, quiz and maps.	Develop geographical understanding of Egypt and analyze its economic development.	*Knowledge Based* 1. Illustrate the physiographic features of Egypt. 2. Discuss the minerals distribution of China and Australia. *Understanding Based* 1. Illustrate the climate of China. 2. Discuss the population distribution of Australia. *Higher Order Thinking Skills Based* 1. Compare the climatic features of Egypt and China. 2. Discuss the relevance of agricultural produce in Australia.	Knowledge--40 Understanding-35 Higher Order-25
	Minerals, Power resources, Industries, Spatial distribution of Population,	Concept of resources, Extraction of resources.	Match the following, Quiz, Demonstration			
	Economic development and Impact of Desertification.	Suez canal,	Maps, Flow Charts			
JAN	**UNIT II** China: Physiography, Drainage, Climate, Natural Vegetation,	Siberian winds, formation of mountain ranges and Tibet plateau.	Diagrams, Models, Globe	Develop geographical understanding of China and analyze its economic development.		
	Minerals, Power resources, Industrial Region,	Spatial distribution of eastern and western China, Silk Route.	Diagrams, Models, Globe			
	Spatial distribution of Population and its economic development.		Maps, Diagrams, Models.			
FEB TO MARCH	**UNIT III** Australia: Physiography, Drainage, Climate, Natural Vegetation,	Great Barrier Reef, Mediterranean climate.	Demonstration through rock samples	Develop geographical understanding of Australia and analyze its economic development.		
	Dairy farming, Power resources, Industries,	Agriculture, International Trade.	PPT,			
	Spatial distribution of Population and Economic development.	Aborigines, White policy.	PPT, Case Studies, Flipped Classroom			

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B.A SEMESTER VI

PRACTICAL GEOGRAPHY (PAPER III) (GEO-603)

Max. Marks: 50(40Ext; 10 Int) Min Marks: 20(16 Ext;4 Int)

Credits: 02 Duration: 5 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I DEC	**FILED SURVEY: REPORT WRITING BASED ON FIELD VISITS OF AN INDUSTRIAL CENTRE, HERITAGE SITE LIKE FORTS, IRRIGATION PROJECT, NATIONAL PARK etc** Technique of Field work conduction: Types of data, Primary data collection: Sampling, Preparation of a questionnaire. Significance of field work in Geographical studies.	Importance of Survey ,field investigations , Questionnaires.	Demonstration and Lab exercises with Video Animations.	Construct, Formulate and analyze questionnaires for data collection and field survey to help them understand the importance of ecological, historical or industrial hotspots of regional importance.	*Knowledge Based* Practical File Work *Understanding Based* Lab exercises Draw a Plain Scale on R.F 1:50,000 *Higher Order Thinking Skills Based* Interpret and develop a Profile for the given region? Viva Voce	Knowledge--30 Understanding-50 Higher Order-20
JAN	Data Analysis and Report writing with the help of suitable diagrams.		Demonstration with 3 D Models, Tracing Table			
FEB. TO. MARCH.	The students are required to give a project presentation with report submission on assigned problem involving field investigations.		Demonstration and Lab exercises with Video Animations			

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M. A/M.Sc GEOGRAPHY (Final) SEMESTER IV

QUANTITATIVE TECHNIQUES IN GEOGRAPHY (a) (GEOM-403)

Max Marks: 100(70Ext; 30 Int) Min. Marks: 40(28 Ext;12 Int)

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COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM IV DEC	**UNIT I** Statistics – Meaning and Objective ; Sampling techniques;	Data understanding and analysis.	PPT, Chart, Maps, Visual 3- D Models	Understand and estimate the importance of quantitative techniques.	*Knowledge Based* Understand and estimate the importance of quantitative techniques.	Knowledge–30
	Central Tendencies – Mean, Median, Mode. Measures of Dispersion – Range, Quartile deviation,	Central Tendencies	Quiz, Demonstration			
	Standard deviation; Its uses and computation.	Understanding variability.	Maps, Flow Charts			
JAN	**UNIT II** Types of Statistics – Parametric & Non-Parametric, descriptive and inferential statistics;	Parametric & Non-Parametric	Diagrams, Models, demonstration through Globe	Differentiate between parametric and non-parametric inferences.	*Understanding Based* Differentiate between scales of measurement .	Understanding-30
	scales of measurement: Nominal, Ordinal, Interval Ratio:	scales of measurement	Diagrams, Models			
	Correlation: Meaning, rank, Spearman; Regression Analysis.	Understanding of Correlation	Maps, Diagrams, Models.			
FEB TO MARCH	**UNIT III** Hypothesis testing, Level of significance;	Understanding of statistical methods.	Demonstration through rock samples	Formulate hypothesis and measure the level of significance.	*Higher Order Thinking Skills Based* Formulate hypothesis and measure the level of significance.	Higher Order-40
	Chi-square test: Meaning & Computation; t-test; z-test; Analysis of Variance (ANOVA);	Understanding of statistical methods.	PPT, Demonstration			
	Factor analysis and Principal Component Analysis.	Understanding of statistical methods.	PPT, Case Studies, Flipped Classroom			

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