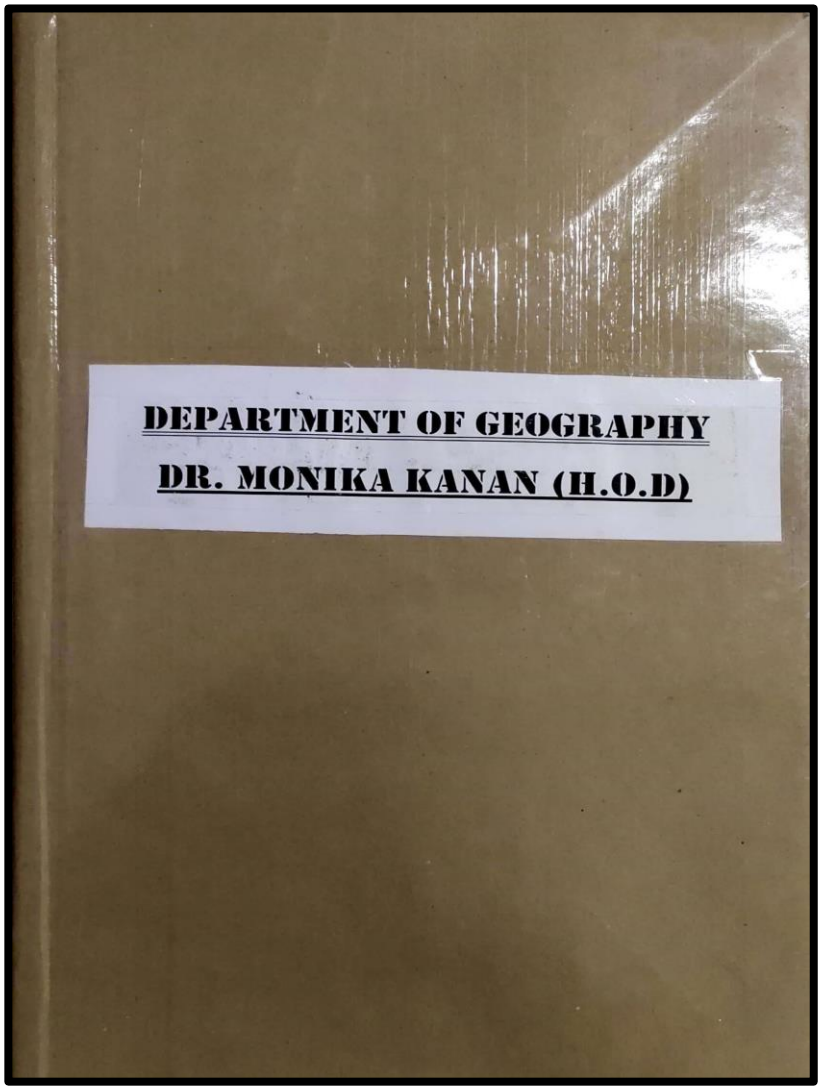
SOPHIA GIRLS' COLLEGE(AUTONOMOUS), AJMER



COURSE_PLAN_2019-20_DR_MONIKA_KANNAN

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

B.A SEMESTER I PHYSICAL GEOGRAPHY–I (PAPER I) (GEO-101)

(Elements of Geomorphology)

Max. Marks : 75 (50Ext; 25 Int) Min. Marks: 30 (20 Ext;10 Int) Credit: 03 Duration: 21/2 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I JULY	**UNIT I** Solar System; Geological Time Scale; Origin of the Earth: Kant, Chamberlin and James Jeans, Big Bang Theory;	Ice age, Super Nova,	PPT, Chart, Maps, Visual 3- D Models	Identify the concepts of origin of earth and landform.	*Knowledge Based* 1. What is Solar System? 2. Illustrate the different layers of Earth's Interior? *Understanding Based* 1. Compare the Continental Drift Theory and the concept of Plate Tectonics? 2. Classify the different landforms formed by the action of river? *Higher Order Thinking Skills Based* 1. Justify the present distribution of world continents and oceans on the basis of Harry Hess's Plate Tectonics Theory? 2. Critically evaluate the concepts of Sea Floor spreading?	Knowledge--60 Understanding-30 Higher Order-10
	Earth's interior: Structure and zoning of the Earth's interior;	Law of Floatation	Quiz, Diagrams			
	Forces of the Earth: Endogenetic and Exogenetic; Folds and Faults.	Force of Buoyancy & Gravitation	Maps, Flow Charts			
AUGUST	**UNIT II** Origin of Continents & Oceans: Wegner's Continental Drift Theory,	Climatic Zones, Layers of the earth, Force of Boyancy	Diagrams, Models, Globe	Illustrate the different forces acting over the earth.		
	Theory of Plate tectonics, Sea-floor spreading; Theory of Isostacy;	Isostatic Balance, Himalayan Disturbances, Concept of Displacement, Law of Floatation	Diagrams, Models, demonstration through Globe			
	Volcanoes: types, distribution and related landforms; Earthquakes: occurrence, distribution.	Seismography	Maps, Diagrams, Models, Demonstration			
SEPTEMBER-OCTOBER	**UNIT III** Rocks: Igneous, Sedimentary and Metamorphic;	Geological Structure, Fossils, Interior of the earth, Landforms	Demonstration through rock samples	Compare and analyze the different cycles of landform erosion and their processes.		
	Denudation: Weathering and its types, Erosion and resulted landforms:	Exogenetic Forces of the earth, Agents erosion	PPT, Demonstration			
	Work of River, Glacier, Wind (arid and semi-arid), Waves and Karst, Davison Cycle of erosion.	Stages of development, World Physiography	PPT, Case Studies, Flipped Classroom			

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B.A SEMESTER I

PRACTICALS BASICS OF CARTOGRAHY (GEO-103)

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	Scales: Plain Linear, Statement - Diagonal and Comparative; Representative Fraction.	Basic mathematics, Tables, Conversion Units	Exercises with Use of Wooden Geometry Box, Demonstration	To develop skills and competency regarding area analysis and map making with relief features and profiles.	*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	Methods of showing relief- (hachures, shading, contours and layer tints).	Topographical understanding, Landform distribution	Demonstration with 3 D Models, Tracing Table			
SEPTEMBER-OCTOBER	Representation of different landforms by contours. Drawing of profiles: cross and long profiles, superimposed, composite and projected profiles and their relevance in landform mapping and analysis.	Slopes, Areal topographical interpretation	Demonstration and Lab exercises with Video Animations			

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B.A SEMESTER III

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

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 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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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	Demonstration with 3 D Models, Tracing Table			
SEPTEMBER-OCTOBER	Correction of Bearing and Removal of closing error- Bowditch.	Slopes, Areal topographical interpretation	Demonstration and Lab exercises with Video Animations			

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

SEMESTER I

GEOGRAPHICAL THOUGHT (GEOM-101)

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts /facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I JULY	**UNIT I** The nature and scope of geography; Elements of geography: location on the surface of the Earth, physical conditions, forms of life and human responses;	Origin of the subject, environmental determinism.	PPT, Diagrams, Flow Charts.	Recognize the elements of Geography and trace the evolution of the subject.	*Knowledge Based* Summarize the elements of geography.	Knowledge--40
	Development of modern geography in India;	Latest tools and techniques.	Flipped Classroom, Diagrams.			
	Geography of Vedic age and Geography of Purana: Dwipa, Ocean, River and Mountain systems.	Understanding of Vedas & Upnishadas	Maps, Flow Charts, PPT.		*Understanding Based* Examine the contributions of Arab Geographers	Understanding-30
AUGUST	**UNIT II** Ancient classical Geography: Contribution of Greek and Roman; Dark Age and contribution of Arab Geographers;	Evolution of Mankind.	Charts, Demonstration through Maps.	Discover and develop understanding about the contributions of various schools of Geographical Thought.		
	Late medieval Geography: Age of travels, exploration and discoveries; German school of Geography: Contribution of Humboldt, Ritter and Ratzel;	Geographical understanding of countries.	PPT, Maps, Flow Charts			
	School of French Geography: Contribution of Blache and Brunhes; British and American school of Geography: Contribution of Mackinder, Herbertson, Miss Semple, Huntington and Davis.	Geographical understanding of countries.	Diagrams, Charts, Demonstration through Maps.		*Higher Order Thinking Skills Based* Elaborate the concept of Dualism in Geography.	Higher Order-30
SEPTEMBER - OCTOBER	**UNIT III** Dualism in Geography: Man-environment relationships (Determinism, Possibilism and Concept of Neo-determinism), Physical and Human, Systematic and Regional;	Ecological balance, forces of nature.	Flipped Classroom, PPT, Class discussions.	Identify and focus on the various geographical concept and dichotomy in the subject.		
	Quantitative revolution in geography; Behavioural geography;	Development of the subject.	PPT, Class discussions.			
	Major Concepts in Geography: Terrestrial unity, Pragmatism, Idealism, Positivism, Radicalism, Areal differentiation.	Human ideologies.	PPT, 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) Duration: 05 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I JULY	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 differentiations	*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	
AUGUST	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			Knowledge--20 Understanding-50 Higher Order-30

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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.	
	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		*Understanding Based* Examine the determinants of agricultural land use.	Knowledge--30
AUGUST	**UNIT II** Agricultural concepts and their measurements: cropping pattern, crop concentration, crop productivity, crop diversification, crop combination regions and agricultural development;	Cropping efficiency.	Diagrams, Models, demonstration through Globe	Distinguish agricultural concepts and theories for the classification of agricultural regions.		Understanding--40
	Theories of agricultural location based on several multi-dimensioned factors: Von Thunen's theory of agricultural location and its recent modifications;	Locational Rent, isostate	Diagrams, Models,		*Higher Order Thinking Skills Based* Discuss the problems and solutions of contemporary Issues in Agriculture.	
	Whittlesey's classification of agricultural regions.	topography and climate.	Maps, Diagrams, Models,			Higher Order-30
SEPTEMBER-OCTOBER	**UNIT III** Land use and land capability; Green Revolution and White Revolution;	Land productivity.	Diagrams, Models,	Examine the contemporary issues and discuss the agricultural policies of India.		
	Nutritional index. Agricultural Policy in India. Contemporary Issues: Food security, drought and food security, food aid programmes;	Regional planning and management.	PPT, Demonstration			
	Environmental degradation.	Environmental concerns.	PPT, Case Studies, Flipped Classroom			

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SOPHIA GIRL'S COLLEGE, AJMER (*AUTONOMOUS*)
B.A SEMESTER II
HUMAN GEOGRAPHY PAPER II (GEO-202)

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	**UNIT I** Nature, Scope and its Branches;	Synthesised study, relationship with other fields.	PPT, Chart, Maps, Class discussions.	Identify branches of human geography and distinguish between the different concepts of man – environment relationship.	*Knowledge Based* 1. Explain the nature and scope of human geography. *Understanding Based* 1. Categorize the early economic activities. 2. With the help of suitable map show the distribution of human races. *Higher Order Thinking Skills Based* Discuss the factors affecting the population growth and distribution in India. Critically evaluate the migration zone theory.	Knowled ge--55 Understa nding-30 Higher Order-15
	Concepts of man-environment relationship: Determinism, Possibilism, Neo-determinism;	Forces of nature, Technological development, recent environmental issues.	Flipped Classroom, Quiz, Demonstration			
	Races of Mankind; Early economic activities of mankind: Food gathering and Hunting, Fishing and Shifting cultivation.	Tribes with examples of their economic activities.	Maps, Flow Charts.			
JAN	**UNIT II** Human Adaptation to the environment: (i) Cold region—Eskimo; (ii) Hot region Bushman, Beduin; (iii) Plateau—Gonds, Masai, (iv) Mountain- Gujjars;	Adaptation, theory of survival, migration, Tranhumance.	Diagrams, Maps and Quiz.	Classify the different tribes of the world and use various factors to interpret the spatial distribution of population.		
	World's population: factors affecting, growth, density and spatial distribution;	Ecumene, Push and pull factors.	Diagrams, Models, Globe.			
	Concepts of over, under, optimum and Zero population growth.	Human as a resource	Maps, Diagrams, Models			
FEB TO MARCH	**UNIT III** Migration: Push and Pull factors, Types; Griffith Taylor's Migration Zone Theory;	Immigration and emigration.	PPT, Case Studies, Flipped Classroom	Visualize the various patterns of migration, settlements and summarize the major problems of urbanization in India.		
	Human Settlements: Site and Situation, House types (with special reference to India);	Physical and cultural factors affecting human settlements.	PPT, Demonstration			
	Urbanization: factors affecting, associated problems.	Urban Sprawl, Slum expansion, unemployment.	Charts, 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 Understanding -50 Higher Order-20
JAN	Conduct a socio-economic survey of the Village Households with the help of a questionnaire. Supplement the information by personal observations and perceptions. 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.	Topographical understanding, Landform distribution.	Demonstration, Tracing Table.			
FEB TO MARCH	Cartography: Types of map, graphical and diagrammatic representation of data.	Areal topographical interpretation.	Demonstration and Lab exercises with Video Animations.			

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B.A SEMESTER IV

PRACTICAL: MAP PROJECTIONS (403)

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

Credits: 02 **Duration: 4 hrs**

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I DEC	**Map projections:** 1. Maps – Grids of latitude and longitudes.	Basic mathematics, Tables, Conversion Units	Exercises with Use of Wooden Geometry Box, Demonstration	Enhance the knowledge about the size and shape of the Earth. Know Mathematical references to locate points on the Earth surface. Classify map projections and explain the use of particular projections for mapping purposes.	*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	2. The globe and maps – their merits and demerits. 3. Classification of map projections.	Topographical understanding, Landform distribution	Demonstration with 3 D Models, Tracing Table			
FEB TO MARCH	4. Map projection –Basis, identification and uses: (a) Zenithal Equi-distant, Equal area, Orthographic, Stereographic, Gnomonic Projection (b) Cylindrical Equal – Area, Equi- distant, Mercator's Projection. (c) Conical Projection with one standard parallel.	Slopes, Areal topographical interpretation	Demonstration and Lab exercises with Video Animations			

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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 (%)
SEMI 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)

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 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.	
	Central Tendencies – Mean, Median, Mode. Measures of Dispersion – Range, Quartile deviation,	Central Tendencies	Quiz, Demonstration			Knowledg
	Standard deviation; Its uses and computation.	Understanding variability.	Maps, Flow Charts		*Understanding Based* Differentiate between scales of measurement .	e–30
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.		Understan
	scales of measurement: Nominal, Ordinal, Interval Ratio:	scales of measurement	Diagrams, Models			ding-30
	Correlation: Meaning, rank, Spearman; Regression Analysis.	Understanding of Correlation	Maps, Diagrams, Models.		*Higher Order Thinking Skills Based* Formulate hypothesis and measure the level of significance.	Higher Order–10
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.		
	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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