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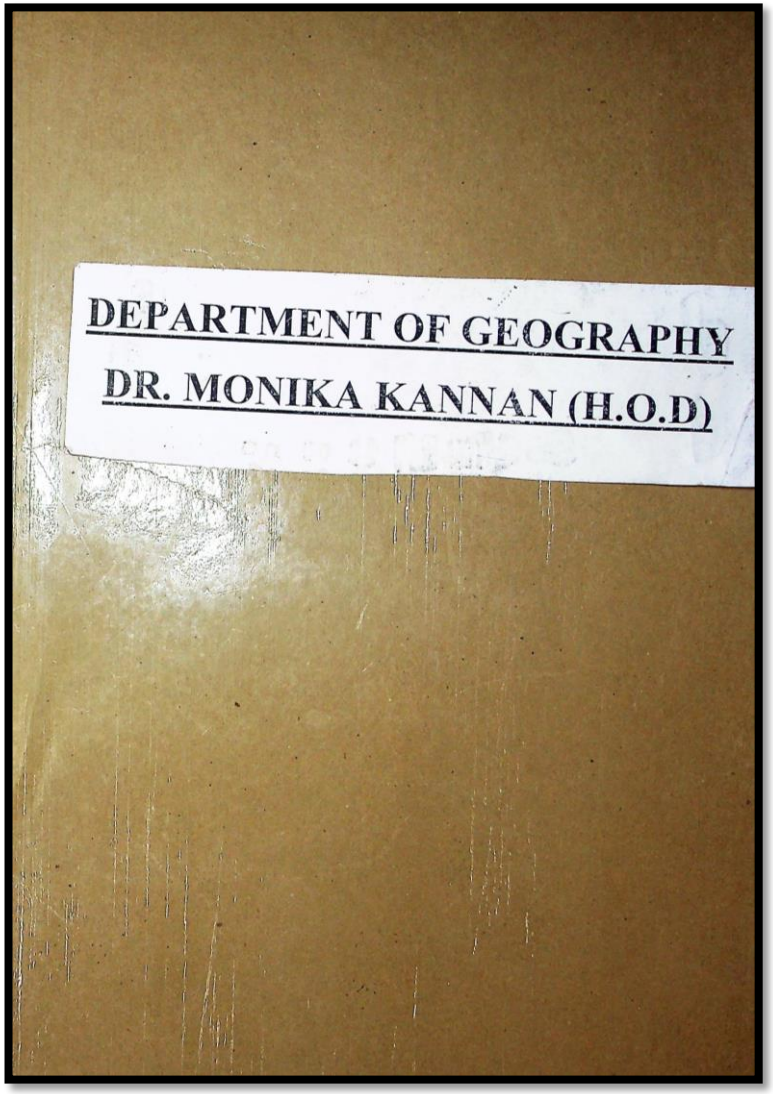

COURSE_PLAN_2022-23_PROF_MONIKA_KANNAN

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

B.A SEMESTER I

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

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

edit: 03 Duration: $2^{1/2}$ hrs

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I AUG	**UNIT I** Physiography; Climate: Factors affecting, Koppen's Climatic classification;	Water divide of India, Windward and Leeward.	PPT, PDF's, Flipped Classrooms, 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*	Knowledge--60 Understanding-30 Higher Order-10
	Drainage: Rivers and Lakes; Soil: Types and distribution; Vegetation: Factors affecting, conservation;	Badlands, Sand dunes.	Maps, Quiz, Diagrams, Representation through Videos			
	Desertification.	Climate change, Alkaline and saline soils.	Maps, Flow Charts, PPT Presentation			
AUG.-SEPT.	**UNIT II** Population: Factors affecting, Growth, Density, Distribution	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: Meena, Bhill, Garasia and Saharia;	Social structure of tribes.	Diagrams, PPT's, Roleplay			
	Agriculture: Major crops (Bajra, Wheat, Gram, Jowar, Maize, Barley, Cash crops:	Dryland Farming, Water Logging.	Maps, Diagrams, Flip Learning,			

	Sugar cane, Cotton, Oil seeds), Dryland Farming				Justify the present distribution of power resources with the help of suitable map.	
OCT.-NOV.	**UNIT III** Mineral Resources: Metallic Minerals: Iron-ore, Zinc, Manganese, Lead, Silver, Copper, and Tungsten; Non-Metallic: Gypsum, Mica, Manganese, Limestone, Marble;	Illegal mining, Robbers' Economy, Types of Mining	Diagrams, Models, demonstration through Globe	List the major metallic, non-metallic resources and correlate with industrial development of the state.		
	Power Resources: Non-Renewable (Coal, Petroleum, Natural gas, Hydroelectricity, Atomic); Renewable (Wind, solar, Biogas);	Coke, charcoal.	PPT, Demonstration through Videos, PDF's			

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B.A SEMESTER III

ECONOMIC GEOGRAPHY-I (PAPER I) (GEO-301)

Max. Marks: 75 (50Ext; 25 Int) **Min. Marks: 30(20 Ext;10 Int)**

Credit: 03 **Duration: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Mar Distrib
SEM III JUL.	UNIT I **Introduction:** Definition, Nature, Scope its recent trends, its relation with allied subjects;		PPT, Chart, Maps, Visual 3- D Models	Analyze the impact of economic activities on environment.	*Knowledge Based* Elaborate the Industries, work force and categories of economy Write a note on relevance and importance of Economy *Understanding Based* Discuss the factors affecting resources of the world.	Knowledge Understandi Higher Ord
	Classification of economies-primary, secondary and tertiary;		Match the following, Quiz, Representation through Videos			
AUG.- SEPT.	UNIT II **Natural Resource Classification:** Soil, water and Forest as a Resource		Diagrams, Models, demonstration through Globe	Classify the different types of resources and practice		

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B.A SEMESTER V

REGIONAL GEOGRAPHY OF THE WORLD: (ASIA, EUROPE AND AUSTRALIA)

(PAPER I) (GEO-502)

Max. Marks : 75 (50Ext; 25 Int) **Min. Marks: 30(20 Ext;10 Int)**

Credit: 03 **Duration: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM V	UNIT I Asia: Major Physiographic Divisions; Drainage: Yangtze, Hwang Ho, Mekong, Brahmaputra River Systems; Climate; Natural Vegetation; Agriculture Belts; Minerals: Iron, Copper, Zinc, Bauxite, Tin, Uranium, Limestone, Manganese; Power Resources: Coal, Petroleum and Natural Gas; Industries: Iron and		PPT, Chart, Maps, Visual 3-D Models	Gain geographical knowledge of Asia and by identifying the physiographical elements and trace the economic development. Gain geographical knowledge of Europe and by identifying the physiographical elements and	*Knowledge Based* Illustrate the largest continent of the World, its diverse features, economy and societies? *Understanding Based* Compare the mineral belts of Europe?	Knowledge--55 Understanding- 30

	Steel, Engineering, , Sugar, Textiles; Spatial distribution of Population.			trace the economic development.	Classify the different landforms formed by the action of rivers in Europe?	Higher Order-15
			Match the following, Quiz, Demonstration	Gain geographical knowledge of Australia and by identifying the physiographical elements and trace the economic development.	*Higher Order Thinking Skills Based* Justify the present distribution of Physical features in Australia?	
			Maps, Flow Charts, Representation through Videos			
AUG.-SEPT.	Europe: Major Physiographic Divisions; Drainage: Rhine, Volga, Danube, Thames River Systems; Climate; Natural Vegetation; Agriculture Belts; Minerals: Iron, Copper, Zinc, Bauxite, Uranium, Limestone, Manganese; Power Resources: Coal, Petroleum and Natural Gas; Industries: Iron and Steel, Automobiles, Textiles, Chemical, Ship-building; Spatial distribution of Population.		Diagrams, Models, demonstration through Maps		Critically evaluate the concepts of the Industrial locations in Australia?	
			Diagrams,			

			Models, demonstration through PPT's and PDF's			
			Maps, Diagrams, Models, Demonstration			
OCT.-NOV	UNIT III Australia: Major Physiographic Divisions; Drainage: Murray & Darling River Systems; Climate; Natural Vegetation; Agriculture; Minerals: Iron, Copper, Zinc, Bauxite, Uranium, Gold; Power Resources: Coal, Petroleum and Natural Gas; Industries: Iron and Steel, Dairy, Tourism; Spatial distribution of Population.		Demonstration through PPT's and PDF's, Maps, Diagrams, Charts			
			PPT, Demonstration			
			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: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I AUG	Scales: Plain Linear, Statement - Diagonal and Comparative; Representation of different landforms by contours.	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
AUG.-SEPT.	Representation of different landforms by contours.	Topographical understanding, Landform distribution	Demonstration with 3 D Models, Tracing Table			
OCT.-NOV	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 V

PRACTICAL - (PAPER III) (GEO-503)

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

Credits: 02 **Duration: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM V JUL.	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.		Report Writing	Learn to collect primary and secondary data from various sources. Appraise the importance of ecological, historical or industrial hotspots for the purpose of regional growth.	*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
AUG.- SEPT.	Data Analysis and Report writing with the help of suitable diagrams.		Demonstration with Maps and Data Tabulations			

OCT.-NOV.	The students are required to give a project presentation with report submission on assigned problem involving field investigations.		Maps and Diagrams			
				Learning Outcomes	**Questions**	**Marks Weightage (%)**
				• Apply their previous knowledge to create the field plan through plane table and prismatic compass survey method. Inspect field errors and rectify them by using different mechanical methods.	*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

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OCT	Ritter and Ratzel;	Exploration	through Maps.	and amplify understanding about the contributions of various schools of Geographical Thought and Travellers	*Higher Order Thinking Skills Based* Intricate the concept of Dualism in Geography and contemporary concept	
	School of French Geography: Contribution of Blache and Brunches;	Geographical understanding of countries.	PPT, Maps, Flipped Class			
	British and American school of Geography: Contribution of Mackinder, Herbertson, Miss Semple, Huntington and Davis.	Geographical understanding of countries.	Diagrams,Charts, Demonstration through Maps.			
NOV TO DEC	**UNIT III** Dualism in Geography: Determinism and Possibilism and Concept of Neo-determinism, Physical and Human,	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;	Expansion of the subject.	PPT, Class discussions.			
	Concepts of Terrestrial unity, Pragmatism, Idealism, Positivism, Radicalism and Areal differentiation.	Human ideology.	PPT,			

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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 III SEP	**UNIT I** Nature, Scope and Development; Approaches to the study of Agricultural Geography: Commodity, Systematic, Regional and Ecological;	Approaches to the study of Agricultural Geography	PPT, Chart, , 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*	Knowledge--30 Understanding-40 Higher
	Origin and Dispersal; Concepts: Cropping Pattern, Crop Concentration,	. Origin and dispersal of agriculture	Maps, History of Agriculture Quiz, Statistical Methods			
	Crop Productivity, Crop Diversification, Crop Efficiency.	agricultural productivity.	Maps, Flow Charts Statistical Methods ,Diagram			

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Credits: 06 **Duration: 03 hrs**

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM III SEP	**UNIT I** Nature, Scope and Development; Approaches to the study of Agricultural Geography: Commodity, Systematic, Regional and Ecological;	Approaches to the study of Agricultural Geography	PPT, Chart, , 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*	Knowledge--30 Understanding-40 Higher
	Origin and Dispersal; Concepts: Cropping Pattern, Crop Concentration,	. Origin and dispersal of agriculture	Maps, History of Agriculture Quiz, Statistical Methods			
	Crop Productivity, Crop Diversification, Crop Efficiency.	agricultural productivity.	Maps, Flow Charts Statistical Methods ,Diagram			

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M. A/M.Sc GEOGRAPHY (Final)
SEMESTER III
URBAN GEOGRAPHY (a) GEOM-303

Max Marks: 100(70Ext; 30 Int)
Credits: 06

Min. Marks: 40(28 Ext;12 Int)
Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM III SEP	**UNIT I** Nature, scope and development of urban geography	Development of urban geography.	PPT, Chart, Maps, Visual 3-D Models	Understand the nature, scope and evolution of urban geography as a subject.	*Knowledge Based* Paraphrase the concepts of urban geography. *UnderstandingBased* Evaluate the Central Place Theory. *Higher Order Thinking*	Knowledge--30 Understanding-40 Higher
	Origin and growth of urban centres. Trends of urbanization	Urbanization	Models, Diagram; Quiz.			
	Views of Mumford and Griffith Taylor; Conurbation and Megalopolis.	Urban growth centres.	Maps, Flow Charts, Model			
OCT	**UNIT II** Christaller's Central Place Theory	Understanding of urban landscape.	Maps, Flow Charts, Study of Applicability	Discover and summarize various theories of development of urban systems.		
	Primate city; Rank-size rule: Urban land use Models	Market & service centres.	PPT, Chart, Maps, Case Studies			
	Burgess, Harris-Ullman and Hoyt.	Land use	Maps,			

					Based	Order-30
OCT	**UNIT II** Theories of Crop Combination Regions: Weaver, Doi and Rafiullah;	Agricultural regionalisation	Diagrams, Models, demonstration through Globe	Distinguish agricultural concepts and theories for the classification of agricultural regions.	Discuss the problems and solutions of contemporary Issues in Agriculture.	
	Present relevance of Von Thunen's agricultural model;	Locational Rent	Diagrams, Flow chart Models,			
	Whittlesey's classification of agricultural regions.	topography and climate.	Maps, Diagrams, Models, PPT			
NOV. TO DEC.	**UNIT III** Green Revolution and Regional Disparity;	Land productivity.	Diagrams, Models, Flipped Classs	Examine the contemporary issues and discuss the agricultural policies of India.		
	Agro-climatic Regions of India;	Regional planning and management.	PPT, Maps, Demonstration			
	Contemporary Issues: Food Security, Sustainable Agriculture, Dryland Farming, Organic Farming.	Environmental concerns.	PPT, Case Studies, Flipped Classroom, Group Discussion			

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SEMESTER III
URBAN GEOGRAPHY (a) GEOM-303

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 III SEP	**UNIT I** Nature, scope and development of urban geography	Development of urban geography.	PPT, Chart, Maps, Visual 3-D Models	Understand the nature, scope and evolution of urban geography as a subject.	*Knowledge Based* Paraphrase the concepts of urban geography. *UnderstandingBased* Evaluate the Central Place Theory. *Higher Order Thinking*	Knowledge--30 Understanding-40 Higher
	Origin and growth of urban centres. Trends of urbanization	Urbanization	Models, Diagram; Quiz.			
	Views of Mumford and Griffith Taylor; Conurbation and Megalopolis.	Urban growth centres.	Maps, Flow Charts, Model			
OCT	**UNIT II** Christaller's Central Place Theory	Understanding of urban landscape.	Maps, Flow Charts, Study of Applicability	Discover and summarize various theories of development of urban systems.		
	Primate city; Rank-size rule: Urban land use Models	Market & service centres.	PPT, Chart, Maps, Case Studies			
	Burgess, Harris-Ullman and Hoyt.	Land use	Maps,			

OCT	**UNIT II** Theories of Crop Combination Regions: Weaver, Doi and Rafiullah;	Agricultural regionalisation	Diagrams, Models, demonstration through Globe	Distinguish agricultural concepts and theories for the classification of agricultural regions.	*Based* Discuss the problems and solutions of contemporary Issues in Agriculture.	Order-30
	Present relevance of Von Thunen's agricultural model;	Locational Rent	Diagrams, Flow chart Models,			
	Whittlesey's classification of agricultural regions.	topography and climate.	Maps, Diagrams, Models, PPT			
NOV. TO DEC.	**UNIT III** Green Revolution and Regional Disparity;	Land productivity.	Diagrams, Models, Flipped Classs	Examine the contemporary issues and discuss the agricultural policies of India.		
	Agro-climatic Regions of India;	Regional planning and management.	PPT, Maps, Demonstration			
	Contemporary Issues: Food Security, Sustainable Agriculture, Dryland Farming, Organic Farming.	Environmental concerns.	PPT, Case Studies, Flipped Classroom, Group Discussion			

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M. A/M.Sc GEOGRAPHY (Final)
SEMESTER III
URBAN GEOGRAPHY (a) GEOM-303

Max Marks: 100(70Ext; 30 Int)
Credits: 06

Min. Marks: 40(28 Ext;12 Int)
Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM III SEP	**UNIT I** Nature, scope and development of urban geography	Development of urban geography.	PPT, Chart, Maps, Visual 3-D Models	Understand the nature, scope and evolution of urban geography as a subject.	*Knowledge Based* Paraphrase the concepts of urban geography. *UnderstandingBased* Evaluate the Central Place Theory. *Higher Order Thinking*	Knowledge--30 Understanding-40 Higher
	Origin and growth of urban centres. Trends of urbanization	Urbanization	Models, Diagram; Quiz.			
	Views of Mumford and Griffith Taylor; Conurbation and Megalopolis.	Urban growth centres.	Maps, Flow Charts, Model			
OCT	**UNIT II** Christaller's Central Place Theory	Understanding of urban landscape.	Maps, Flow Charts, Study of Applicability	Discover and summarize various theories of development of urban systems.		
	Primate city; Rank-size rule: Urban land use Models	Market & service centres.	PPT, Chart, Maps, Case Studies			
	Burgess, Harris-Ullman and Hoyt.	Land use	Maps,			

		classification.	Diagrams, Models. Disscusion		*Skills Based* Evaluate the principles of urban planning.	Order-30
NOV TO DEC	**UNIT III** Centripetal and Centrifugal forces of Urban Growth;	forces of Urban Growth	PPT, Flipped Classroom G.D.	Elaborate the functional classification of cities and interpret sustainable urban planning and development.		
	Functional classification of cities;	Functional classification of cities.	PPT, Demonstration, Models			
	Rural Urban Fringe: Concept, Urban Problems and solutions; Concept of Smart City.	Rural-urban fringe, Umland	PPT, Case Studies. Study of Applicability			

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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;12Int)

Credits: 06 Duration: 05 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I SEP	Weather maps: Study and interpretation of January and July months.	Interpretation of weather maps	Use of Weather Maps, Interpretation	Create, develop and interpret weather maps and understanding of the Topographical landscapes in consonance to Survey of India Toposheets	*Knowledge Based* Practical File Work *Understanding Based* Lab exercises Draw a Plain Scale on R.F 1:50,000	
OCT	Study of Topographical sheets: Scheme of Indian Toposheets.	Topographical understanding, Landform distribution	Demonstration with 3 D Models, Tracing Table			

NOV TO DEC	Graphs: Frequency Curve, Frequency Polygon, Histogram, Ogive. Diagrams: Simple and Compound wind rose, Climograph, Hythergraph and Climatograph.	Basic mathematics, Tables, Conversion Units	Demonstration and Statistical Technique	and asses their regional differentiation s	*Higher Order Thinking Skills Based* Interpret and develop a Profile for the given region? Viva Voce	Knowledge--20 Understanding- 50 Higher Order- 30

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B.A SEMESTER VI

GEOGRAPHICAL THOUGHT- (PAPER II) (GEO-601)

Max. Marks : 75 (50Ext; 25 Int) **Min. Marks: 30(20 Ext;10 Int)**

Credit: 03 **Duration: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM VI DEC.-JAN.	**UNIT I** The nature and scope of geography;		PPT, Chart, Maps, Visual 3-D Models	Know and understand geography of Vedic Age. Trace the contributio n of Greek,	*Knowledge Based* Illustrate the different School of thought *Understanding Based* *Higher Order Thinking Skills Based*	Knowledge--55
	Geography of Vedic and Puranic Age: Dwipa, Ocean, River and Mountain systems; Development of modern geography in India.	Vedic Concept of Origin of Universe, solar system and Earth	Match the following, Quiz, Demonstration			
	Ancient classical Geography- Contribution of Greeks and Romans.		Maps, Flow Charts			

FEB.	**UNIT II** Classification on the basis of Raw Material, size and Ownership	Production cost. Transportation cost	Diagrams, Models. demonstration through Globe	Relate factors affecting localization of industries and discuss the major industries of the world.		
	Major industries of the world- Iron and steel, textile-cotton and Woollen,	Core Industries	Diagrams, Models, demonstration through Globe			
	chemicals, cement, paper, ship buildings.		Maps, Diagrams, Models, Demonstration			
MAR. – APR.	**UNIT III** Transport: factors affecting,	Mode of Transportation	Demonstration through rock samples	Identify the influence of geographical factors in the development of trade and transport.		
	Major water, land and air transport;		PPT, Demonstration			
	Impact of COVID on global economy	Recession	PPT, Case Studies, Flipped Classroom			

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B.A SEMESTER VI

GEOGRAPHICAL THOUGHT- (PAPER II) (GEO-601)

Max. Marks : 75 (50Ext; 25 Int) **Min. Marks: 30(20 Ext;10 Int)**

Credit: 03 **Duration: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM VI DEC.- JAN.	**UNIT I** The nature and scope of geography;		PPT, Chart, Maps, Visual 3-D Models	Know and understand geography of Vedic Age. Trace the contributio n of Greek,	*Knowledge Based* Illustrate the different School of thought *Understanding Based* *Higher Order Thinking Skills Based*	Knowledge--55
	Geography of Vedic and Puranic Age: Dwipa, Ocean, River and Mountain systems; Development of modern geography in India.	Vedic Concept of Origin of Universe, solar system and Earth	Match the following, Quiz, Demonstration			
	Ancient classical Geography- Contribution of Greeks and Romans.		Maps, Flow Charts			

		Initiation of Logical and conceptual Geography		Roman, Arab, French, German, British and American Geographers. Compare Dualism in Geography.		Understanding- 30 Higher Order- 15
FEB.	**UNIT II** Dark Age; Contribution of Arab Geographers: Ibn-Batuta, Al-Biruni, Al-Masudi, Ibn-Khaldun and Al-Idrisi.	Cartography and Map Interpretation, Climatic studies	Diagrams, Models, demonstration through Globe			
	German school of Geography: Contribution of Humboldt, Ritter and Ratzel; French School of Geography: Contribution of Blache and Brunhes;	Empirical, Inductive and Deductive studies	Diagrams, Models, demonstration through Globe			
	British and American school of Geography: Contribution of Mackinder, Herbertson, Miss E. Semple, Huntington and Davis.	Concept of Dualism	Maps, Diagrams, Models, Demonstration			

MAR. – APR.	UNIT III Dualism in Geography: Determinism and Possibilism, Physical and Human, Systematic and Regional;	Relationship between Man and Environment	Demonstration through rock samples			
	Major concepts in Geography: Neo-Determinism, Terrestrial unity, Areal differentiation;		PPT, Demonstration			
	Remote Sensing and GIS- Use and Importance.		PPT, Case Studies, Flipped Classroom			

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M. A/M. Sc GEOGRAPHY SEMESTER II

CLIMATOLOGY AND OCEANOGRAPHY(GEOM-201)

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

COURSE PLAN

UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
UNIT I and Scope of Climatology; Composition and e of the atmosphere;	Concept of climate and weather.	PPT, Chart, Maps, Visual 3- D Models	Distinguish the various climatic phenomenon and explain their global to regional distribution.	*Knowledge Based* Describe the structure and composition of the atmosphere. *Understanding Based* Compare the tropical and temperate cyclones. *Higher Order Thinking Skills Based* Evaluate the theories depicting	Knowledge--40 Understanding-30 Higher Order-30
on: Vertical and Horizontal distribution of ture;	Temperature insolation	Demonstration by models.			
heric pressure; Winds: y, Periodic and Local winds.	Global wind circulation.	Maps, Flow Charts			
UNIT II pheric moisture: Absolute and Relative ity; Types of Clouds and Precipitation;	Composition of the earth, layers of atmosphere.	Diagrams, Models, demonstration through Globe	Classify climatic regions of the world and observe dynamics of cyclones.		
asses and Fronts: Concept, Classification and ies. Atmospheric Disturbances: Tropical and ate cyclones;	Land and water distribution, rotation and revolution.	Diagrams, Models, demonstration through Globe			
c classification of Koppen and Thornthwaite;	Global Climatic Regions.	Maps, Diagrams,			

			Models, Demonstration		presence of coral reefs.	
	UNIT III Nature and scope of Oceanography; Major features of ocean basins;	Hypsometric curve,	Globe, Diagrams, PPT.	Sketch the major features of ocean basins and critically evaluate the distribution of temperature and salinity in oceans.		
	Ocean Temperature and Distribution; Salinity; currents; Tides: Types and Theories (Progressive Wave Theory and Newton Equilibrium Theory);	Ocean bottom relief, gravitation and buoyancy.	PPT, Demonstration			
	Coral reefs: Types and Theories (Darwin, Daly and Murray).	Marine organisms, Ocean bottom relief.	PPT, Flipped Classroom			

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COLLEGE, AJMER (AUTONOMOUS)

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) Credits: 06 Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
EM IV JAN.	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.	Central Tendencies	Quiz, Demonstration			
	Measures of Dispersion – Range, Quartile deviation, Standard deviation; Its uses and computation.	Understanding variability.	Maps, Flow Charts		*Understanding Based* Differentiate between scales of measurement.	Knowledge--30 Understanding-30
EBRU ARY	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.	*Higher Order Thinking Skills Based* Formulate hypothesis and measure the level of significance.	Higher Order-40
	scales of measurement: Nominal, Ordinal, Interval Ratio:	scales of measurement	Diagrams, Models, demonstration through Globe			
	Correlation: Meaning, rank, Spearman; Regression Analysis.	Understanding of Correlation	Maps, Diagrams, Models.			

MARCH - APRIL	**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;	Understanding of statistical methods.	PPT, Demonstration			
	z-test; Analysis of Variance (ANOVA);	Understanding of statistical methods.	PPT, Case Studies, Flipped Classroom			

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