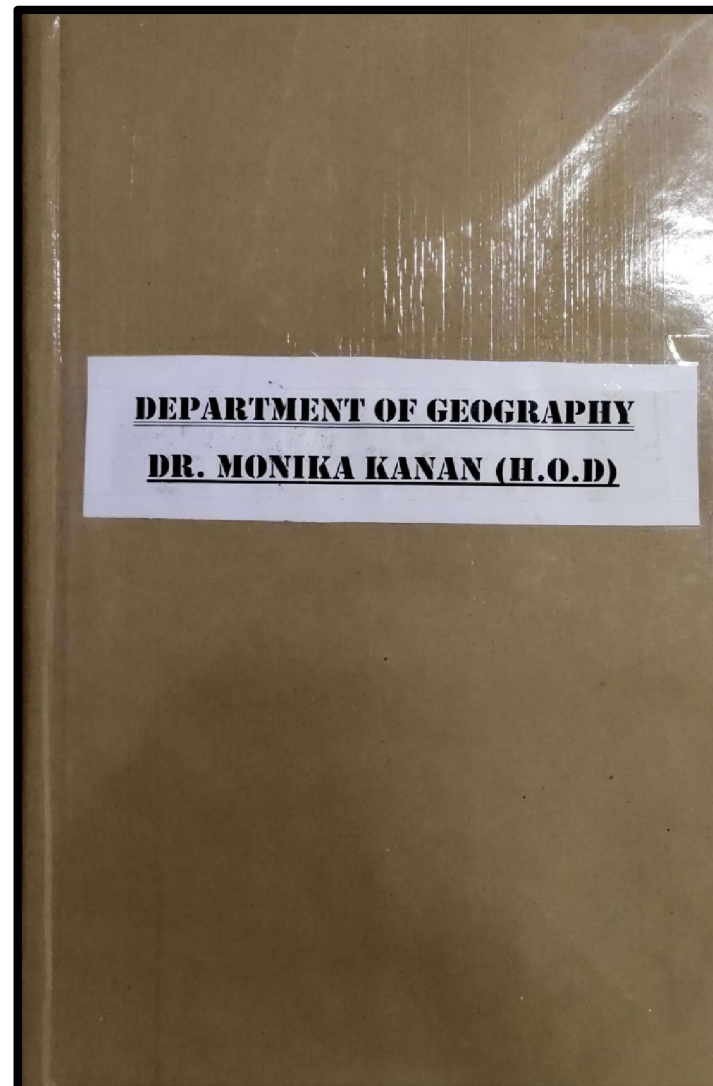




SOPHIA GIRLS' COLLEGE(AUTONOMOUS), AJMER



COURSE_PLAN_2020-21_PROF_MONIKA_KANNAN



ODD SEMESTER

SESSION 2020-21



SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS)

B.A SEMESTER I

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

Max. Marks : 75 (50Ext; 25 Int)

Credit: 03

Min. Marks: 30(20 Ext;10 Int)

COURSE PLAN


SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I SEP.	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.	<u>Knowledge Based</u> Elaborate the Physiographical features of Rajasthan.	Knowledge--60
	Drainage: Rivers and Lakes; Soil: Types and distribution; Vegetation: Factors affecting, conservation;	Badlands, Sand dunes.	Maps, Quiz, Diagrams.		Write a note on desertification in Rajasthan.	
	Desertification.	Climate change, Alkaline and saline soils.	Maps, Flow Charts.		<u>Understanding Based</u>	
OCT.	UNIT II Population: Factors affecting, Growth, Density, Distribution	Sex ratios, Gender issues.	Diagrams, Tables and flow charts.	Enumerate the qualitative and quantitative aspects of	Discuss the factors affecting population density in Rajasthan.	Understanding-
	Tribes: Meena, Bhil, Garasia	Social structure of	Diagrams,			

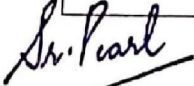
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	and Saharia;	tribes.	PPT's.	population and determine the agricultural regions of Rajasthan.	<u>Higher Order Thinking Skills Based</u> Justify the present distribution of power resources with the help of suitable map.	30
	Agriculture: Major crops (Bajra, Wheat, Gram, Jowar, Maize, Barley, Cash crops: Sugar cane, Cotton, Oil seeds), Dryland Farming	Dryland Farming, Water Logging.	Maps, Diagrams, Flip Learning.			Higher Order-10
SEPTEMBER-OCTOBER	UNIT III Mineral Resources: Metallic Minerals: Iron-ore, Zinc, Manganese, Lead, Silver, Copper, and Tungsten; Non-Metallic: Gypsum, Mica, Manganese, Limestone, Marble;	Illegal mining.	Diagrams, Models, demonstration through Globe, Blended Learning	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, PDF's			


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B.A SEMESTER V

REGIONAL GEOGRAPHY OF THE WORLD: (USA, FRANCE AND BRAZIL)

(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 SEPT.	UNIT I USA: Physiography, Drainage, Climate, Agriculture Belts, Minerals, Power: Coal and Petrol, Spatial distribution of Population and its economic development.		PPT, Chart, Maps, Visual 3- D Models	Gain geogra phical knowle dge of Asia and by identify ing the physio graphic al elemen ts and trace the econo	<u>Knowledge Based</u> 7. What is Solar System? 8. Illustrate the different layers of Earth's Interior? <u>Understanding Based</u> 7. Compare the Continental Drift Theory and the concept of Plate Tectonics? 8. Classify the different	Knowledge--55 Understanding-
			Match the following, Quiz,			Head

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			Demonstration Maps, Flow Charts	mic develo pment. Gain geogra phical knowle dge of Europe and by identify ing the physio graphic al elemen ts and trace the econo mic develo pment. Gain geogra phical knowle dge of Austral ia and by identify	landforms formed by the action of river? <u>Higher Order Thinking Skills Based</u> 7. Justify the present distribution of world continents and oceans on the basis of Hary Hess's Plate Tectonics Theory? 8. Critically evaluate the concepts of Sea Floor spreading?	30 Higher Order- 15
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				ing the physio graphic al elemen ts and trace the econo mic develo pment.		
OCT.	France: Physiography, Drainage, Climate, Minerals, Power resources: Coal and Petrol, Paris Basin Industrial Region , Spatial distribution of Population and its economic development.		Diagrams, Models, demonstration through Maps			
			Diagrams, Models, demonstration through PPT's and PDF's			
			Maps, Diagrams, Models, Demonstration			
NOV.-	Brazil: Physiography,		Demonstration			

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				ing the physio graphic al elemen ts and trace the econo mic develo pment.	
OCT.	France: Physiography, Drainage, Climate, Minerals, Power resources: Coal and Petrol, Paris Basin Industrial Region , Spatial distribution of Population and its economic development.		Diagrams, Models, demonstration through Maps		
			Diagrams, Models, demonstration through PPT's and PDF's		
			Maps, Diagrams, Models, Demonstration		
NOV.-	Brazil: Physiography,		Demonstration		

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C.	Drainage-Amazon and Orinoco basin, Climate, Agriculture-Plantation Crops, Minerals, Power resources, Spatial distribution of Population, Economic development.		through PPT's and PDF's			
			PPT, Demonstration			
			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

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM V SEPT.	<p>FILED SURVEY: REPORT WRITING BASED ON FIELD VISITS OF AN INDUSTRIAL CENTRE, HERITAGE SITE LIKE FORTS, IRRIGATION PROJECT, NATIONAL PARK etc</p> <p>Technique of Field work conduction: Types of data, Primary data collection: Sampling, Preparation of a questionnaire. Significance of field work in Geographical studies.</p>		Report Writing	<p>Learn to collect primary and secondary data from various sources.</p> <p>Appraise the importance of ecological, historical or industrial hotspots for</p>	<p><u>Knowledge Based</u> Practical File Work</p> <p><u>Understanding Based</u> Lab exercises Draw a Plain Scale on R.F 1:50,000</p> <p><u>Higher Order Thinking Skills Based</u> Interpret and develop a Profile for the given region?</p>	<p>Knowledge--30</p> <p>Understanding-50</p> <p>Higher Order-20</p>

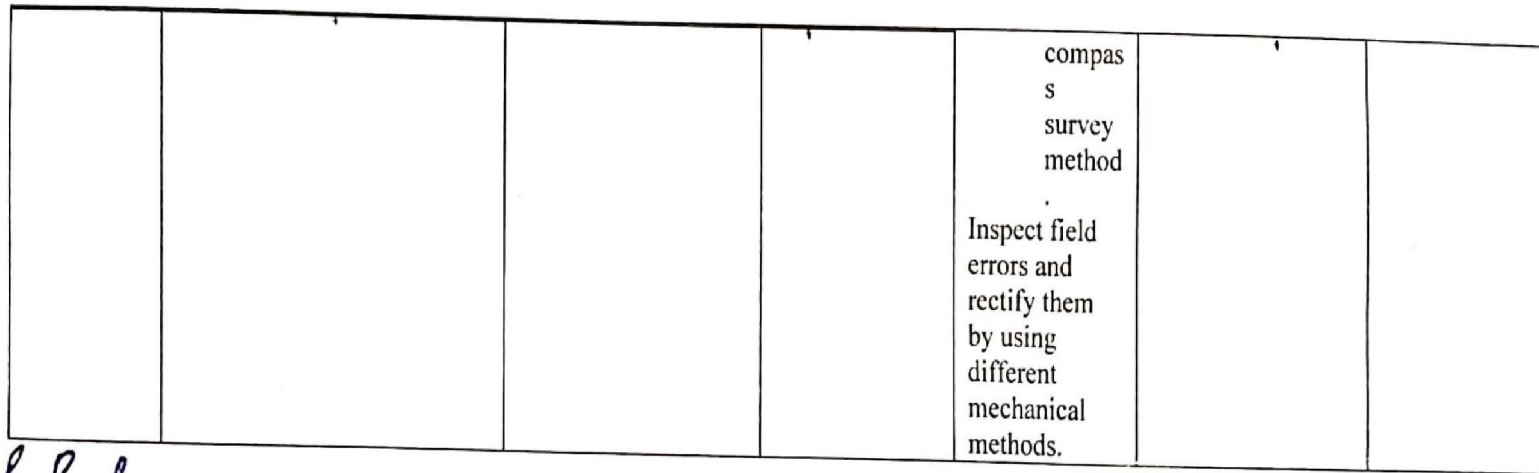
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CT.	Data Analysis and Report writing with the help of suitable diagrams.		Demonstration with Maps and Data Tabulations	the purpose of regional growth.	Viva Voce	
NOV.- DEC.	The students are required to give a project presentation with report submission on assigned problem involving field investigations.		Maps and Diagrams			
				Learning Outcomes	Questions	Marks Weightage (%)
				<ul style="list-style-type: none"> Apply their previous knowledge to create the field plan through plane table and prismatic 	<u>Knowledge Based</u> Practical File Work	Knowledge--30
					<u>Understanding Based</u> Lab exercises Draw a Plain Scale on R.F 1:50,000	Understanding-50
					<u>Higher Order Thinking Skills Based</u> Interpret and develop a Profile for the given region? Viva Voce	Higher Order-20

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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 NOV.	Weather maps: Study and interpretation of January and July months.	Interpretation of weather maps	Exercises with Use of Wooden Geometry Box, Demonstration	Create, develop and interpret weather maps and understanding of the	<u>Knowledge Based</u> Practical File Work <u>Understanding</u>	
DEC.	Study of Topographical sheets: Scheme of Indian Toposheets.	Topographical understanding, Landform distribution	Demonstration with 3 D Models, Tracing Table	Topographical landscapes in consonance to Survey of India	<u>Based</u> Lab exercises Draw a Plain Scale on R.F 1:50,000	

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<p>JAN TO FEB</p>	<p>Graphs: Frequency Curve, Frequency Polygon, Histogram, Ogive.</p> <p>Diagrams: Simple and Compound wind rose, Climograph, Hythergraph and Climatograph.</p>	<p>Basic mathematics, Tables, Conversion Units</p>	<p>Demonstration and Lab exercises with Video Animations</p>	<p>Toposheets and asses their regional differentiation s</p>	<p><u>Higher Order Thinking Skills Based</u></p> <p>Interpret and develop a Profile for the given region?</p> <p>Viva Voce</p>	<p>Knowledge--20</p> <p>Understanding-50</p> <p>Higher Order-30</p>
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M. A/M.Sc GEOGRAPHY (Final)

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/ Mont h	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM III JULY	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.	<u>Knowledge Based</u> Paraphrase the concepts of urban geography.	Knowledg e--30
	Origin and growth of urban centres. Trends of urbanization	Urbanization	Match the following, Quiz.		<u>Understanding Based</u>	
	Views of Mumford and Griffith Taylor; Conurbation and Megalopolis.	Urban growth centres.	Maps, Flow Charts		Evaluate the Central Place Theory.	
AUG UST	UNIT II					
	Christaller's Central Place Theory	Understanding of urban landscape.	Maps, Flow Charts	Discover and summarize various theories of development of urban	<u>Higher Order</u>	Understan ding-40
	Primate city; Rank-size rule: Urban land use Models	Market & service centres.	PPT, Chart, Maps, Visual 3-D Models			

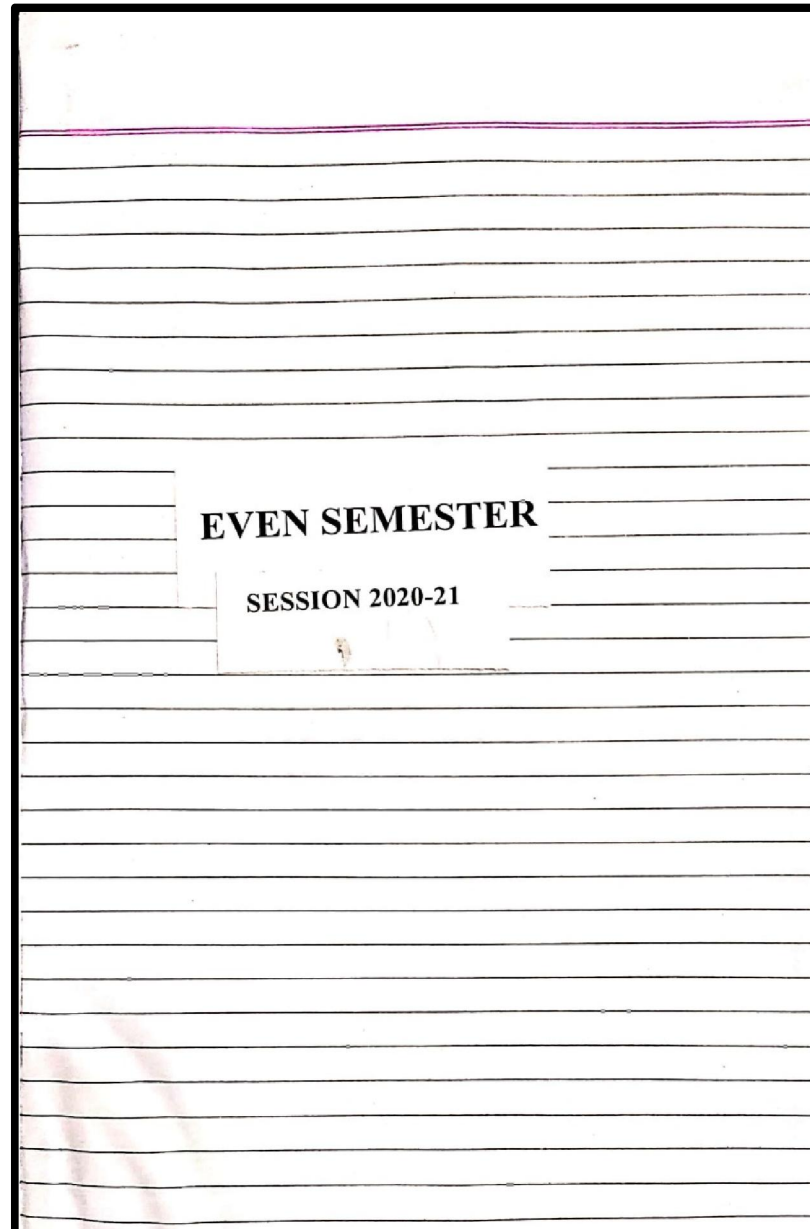
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	Burgess, Harris-Ullman and Hoyt.	Land use classification.	Maps, Diagrams, Models.	systems.	<u>Thinking Skills Based</u>	Higher Order-30
SEPT EMB ER- OCT OBER	UNIT III					
	Centripetal and Centrifugal forces of Urban Growth;	forces of Urban Growth	Quiz, PPT, Flipped Classroom	Elaborate the functional classification of cities and interpret sustainable urban planning and development.	Evaluate the principles of urban planning.	
	Functional classification of cities;	Functional classification of cities.	PPT, Demonstration			
	Rural Urban Fringe: Concept, Urban Problems and solutions; Concept of Smart City.	Rural-urban fringe, Umland	PPT, Case Studies.			

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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

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM II MAR.	UNIT I 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.	<u>Knowledge Based</u> Illustrate the composition and structure of atmosphere.	Knowledge--55
	Atmospheric Temperature: Vertical and Horizontal distribution of temperature; Atmospheric pressure and Pressure belts;	State Conversions, Relationship between Temperature and pressure	Match the following, Quiz, Demonstration		Distinguish between planetary and periodic winds.	
	Winds: Planetary, Periodic and Local winds; Hydrological cycle	Global Climatic Zones	Maps, Flow Charts		<u>Understanding Based</u> Discuss the horizontal and vertical distribution of temperature.	
APRIL	UNIT II Air masses; Fronts: Concept, classification and properties;	Atmospheric Circulations	Diagrams, Models, demonstration through Globe.	Explain various climatic phenomenon and deduce measures to control global warming.	Define cyclones and their types.	30
	Cyclones: Tropical and Temperate cyclones;	Pressure circulation, Western Disturbances.	Diagrams, Models, demonstration			Higher Order-15

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	Climatic classification of Koppen and Thornwait		through Globe. Maps, Diagrams, Models, Demonstration		<u>Higher Order Thinking Skills Based</u> Explain the origin and development of coral reefs.
MAY-JUNE	UNIT III Definition and significance of Oceanography; Ocean Bottom Relief: Atlantic, Pacific and Indian Ocean;	Marine resources, Gulf	PPT, Maps and diagrams.	Define oceanography and elaborate the significance of oceans.	Discuss the importance ocean currents.
	Distribution of Temperature and Salinity; Circulation of oceanic waters- Tides: Concept and types; Currents: Atlantic, Pacific and Indian ocean;	Factors affecting salinity, Fishing Grounds.	PPT, Demonstration		
	Coral Reefs: Types, Darwin's Subsidence Theory.	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)

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I MAR	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	Questionnaire, Sample, Interview	Critically appraise the socio-economic scenario of the surveyed area with graphical and diagrammatic representation of the demographic and economic data.	<u>Knowledge Based</u> Practical File Work	Knowledge--30
APRIL	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 through PPT's		<u>Understanding Based</u>	Understanding-
MAY-JUNE	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. Cartography: types of map, graphical and diagrammatic	Areal topographical interpretation.	Group Discussions		<u>Higher Order Thinking Skills Based</u>	50 Higher Order-20

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M. A/M.Sc GEOGRAPHY

SEMESTER II

CLIMATOLOGY AND OCEANOGRAPHY

(GEOM-201)

Max Marks: 100(70Ext; 30 Int)

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

Credit: 06

Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM II APRIL	UNIT I Nature and Scope of Climatology; Structure of the atmosphere;	Concept of climate and weather.	PPT, Chart, Maps, Visual 3- D Models	Distinguish the various climatic phenomenons and explain their global to regional distribution.	<u>Knowledge Based</u> Describe the structure and composition of the atmosphere.	Knowledge
	Insolation; Vertical and Horizontal distribution of temperature;	Aphelion and perihelion, revolution chart.	Demonstration by models.			
	Atmospheric pressure; Winds: Planetary, Periodic and Local winds.	Land and water distribution, rotation and revolution.	Maps, Flow Charts			
MAY	UNIT II Atmospheric moisture: Absolute and Relative Humidity; 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.	<u>Understanding Based</u> Compare the tropical and temperate	e--40 Understan ding-30 Higher
	Air Masses and Fronts: Concept, Classification and properties. Tropical and Temperate cyclones;	Global wind circulation.	Diagrams, Models, demonstration through Globe			



	Climatic classification of Koppen and Thornthwaite;	Insolation, air masses, temperature and pressure.	Maps, Diagrams, Models, Demonstration		cyclones.	Order-30
JUNE To JULY	UNIT III	Hypsometric curve,	Globe, Diagrams, PPT.	Sketch the major features of ocean basins and	<u>Higher Order Thinking Skills Based</u>	
	Nature and scope of Oceanography; Major features of ocean basins;			critically evaluate the distribution of temperature and salinity in oceans.	Evaluate the theories depicting presence of coral reefs.	
	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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M. A/M.Sc GEOGRAPHY (Final)

QUANTITATIVE TECHNIQUES IN GEOGRAPHY (a)

SEMESTER IV
(GEOM-403)

Max Marks: 100(70Ext; 30 Int)

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

Credits: 06

Duration: 03

COURSE PLAN

COURSE PLAN						
SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM IV MARCH	UNIT I	Data understanding and analysis.	PPT, Chart, Maps, Visual 3- D Models	Understand and estimate the importance of quantitative techniques.	<u>Knowledge Based</u> Understand and estimate the importance of quantitative techniques. <u>Understanding Based</u>	Knowledge--30 Understanding-30 Higher Order-40
	Statistics – Meaning and Objective; Sampling 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			
APRIL	UNIT II	Parametric & Non-Parametric	Diagrams, Models, demonstration through Globe	Differentiate between parametric and non- parametric inferences.	<u>Based</u> Differentiate between scales of measurement. <u>Higher Order Thinking Skills Based</u> <u>Formulate</u>	
	Types of Statistics – Parametric & Non-Parametric, descriptive and inferential statistics;					
	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.		hypothesis and measure the level of significance.	
MAY-JUNE	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;	Understanding of statistical methods.	PPT, Demonstration			
	Analysis of Variance (ANOVA);	Understanding of statistical methods.	PPT, Case Studies, Flipped Classroom			

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