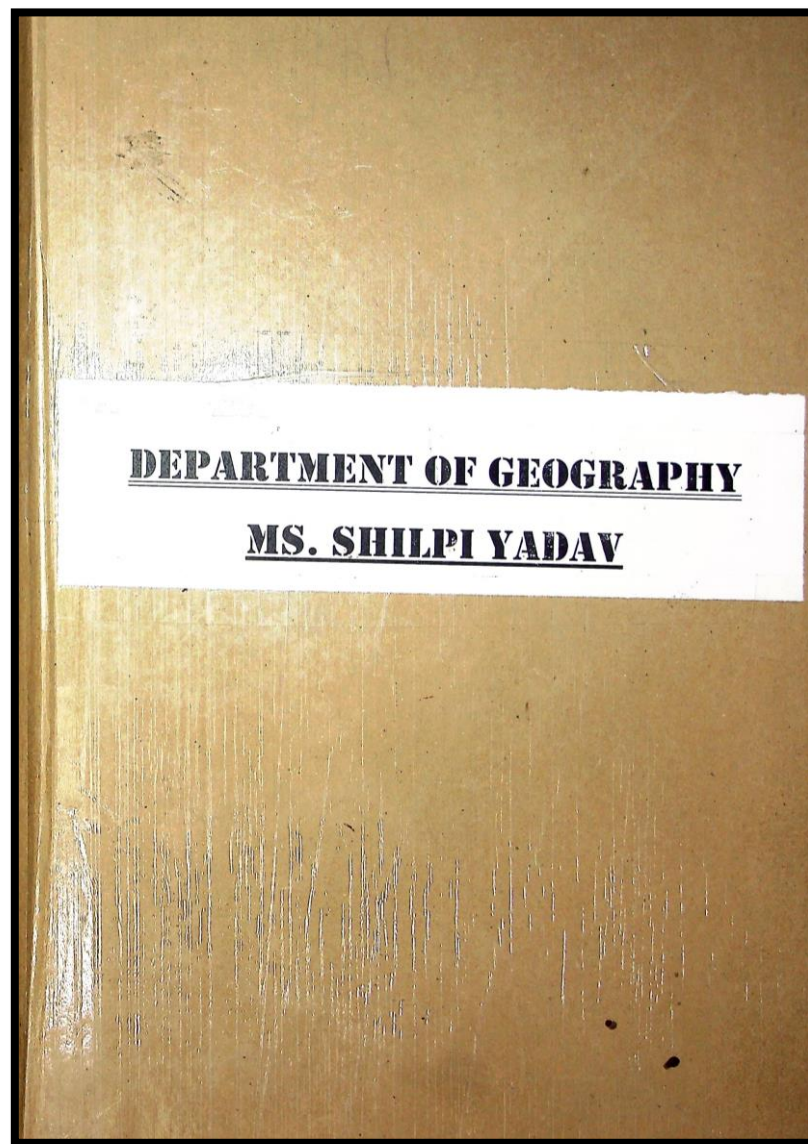




SOPHIA GIRLS' COLLEGE(AUTONOMOUS), AJMER



COURSE_PLAN_2022-23_MS_SHILPI_YADAV



SOPHIA GIRLS' COLLEGE, AJMER (*Autonomous*)
M. A/M.Sc GEOGRAPHY (Previous)
SEMESTER I

POPULATION GEOGRAPHY (GEOM - 103)

Max Marks: 100 (70Ext; 30 Int)

Credit: 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 I SEP	UNIT I Population Geography: Nature, Scope;	Demography, Factors affecting.	PPT, Flow Chart,	Explain the development of demography and elaborate the concept of population.	<u>Knowledge Based</u> Summarize the development of demography and elaborate the concept of population.	Knowledge e--40
	Objectives and Approaches;	Demography, Factors affecting.	PPT,Diagrams Quiz.			
	Modern theories: Malthusian Theory, Optimum Theory and Demographic Transition Theory.	Concept of Sustainable development	Flow Charts, Diagrams.			
OCT	UNIT II Population Dynamics: Qualitative and Quantitative aspect;	Age pyramids, Factors affecting, Qualitative aspects of population.	Diagrams, Quantitative Models, Demonstration through Globe	Measure and discuss the population dynamics of the world.	<u>Understanding Based</u> Examine the population dynamics of the world.	Understan ding-30 Higher
	Urbanization (with special reference to India);	Urban Sprawl, Slum development.	Diagrams, Models, Study of Census Data			



	Migration: Types, Causes, Consequences and related theories.	Push and Pull Factors	Maps, Diagrams, Models, Group Discussion		<u>Higher Order Thinking Skills Based</u>	Order-30
NOV TO DEC	UNIT III World Population Distribution;	Regional disparity	Statistical Data, Maps, Diagram	Critically evaluate the population as a resource and population policies.	Evaluate the theories of migration. <i>S. Pearl</i>	
	Ackerman's Population Resource Regions; Critical appraisal of Population Policies of India;	Government initiatives and need of regional planning.	PPT, Diagrams			
	Human Development Index: Indicators and Measurements.	Social welfare and well-being, Happiness Index.	PPT, Case Studies, Flipped Classroom, Group Discussion			

Sr. Pearl
PRINCIPAL
SOPHIA GIRLS' COLLEGE
(AUTONOMOUS)
AJMER

YK
Head
Department of Geography
Sophia Girls' College
(Autonomous), Ajmer



SOPHIA GIRLS' COLLEGE, AJMER (*Autonomous*)

M. A/M.Sc GEOGRAPHY (Final)

SEMESTER III

AGRICULTURAL GEOGRAPHY (a) (GEOM-301)

Max Marks: 100(70Ext; 30 Int)

Credits: 06

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

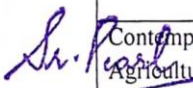
Duration: 03 hrs

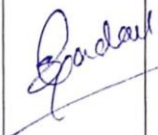

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM III SEP	UNIT I Nature, Scope and Development; 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.	<u>Knowledge Based</u> Summarize the development of agricultural geography.	Knowledge- -30 Understandi ng-40 Higher
	Origin and Dispersal; Concepts: Cropping Pattern, Crop Concentration,	. Origin and dispersal of agriculture	Maps, History of Agriculture Quiz, Statistical Methods		<u>Understanding Based</u> Examine the determinants of agricultural land use.	
	Crop Productivity, Crop Diversification, Crop Efficiency.	agricultural productivity.	Maps, Flow Charts Statistical Methods ,Diagram		<u>Higher Order Thinking Skills</u>	



					<u>Based</u>	Order-30
OCT	UNIT II	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.	
	Theories of Crop Combination Regions: Weaver, Doi and Rafiullah;					
	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	Land productivity.	Diagrams, Models, Flipped Classs	Examine the contemporary issues and discuss the agricultural policies of India.		
	Green Revolution and Regional Disparity;					
	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			


PRINCIPAL
SOPHIA GIRLS' COLLEGE
(AUTONOMOUS)
AJMER



Head
Department of Geography
Sophia Girls' College
(Autonomous), Ajmer



SOPHIA GIRLS' COLLEGE, AJMER (*Autonomous*)
M. A/M.Sc. GEOGRAPHY (Final)

SEMESTER III

PRACTICAL GEOGRAPHY: REMOTE SENSING TECHNIQUES (GEOM-305)

Max Marks: 100(70Ext; 30 Int)

Credit: 06

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 III SEP	UNIT I					
	Remote Sensing: Definitions, Concepts, Evolution and Stages of Remote Sensing, Electromagnetic Spectrum.	Electromagnetic radiation, Concept of remote sensing.	PPT, Chart, Maps, Visual 3- D Models	Build a functional understanding of basic remote sensing concepts and applications.	<u>Knowledge Based</u> Discuss the functional understanding of basic remote sensing concepts and applications.	Knowledge-- 30
	Data Acquisition, Platforms, Sensors, Resolutions, Launch Vehicles, Merit and Demerit of Remote Sensing.	Platforms, Launch Vehicles Resolutions and sensors	PPT, Chart, Maps, Visual 3- D Models	Demonstrate GIS techniques of processing remotely sensed data and understand data acquisition, storage and its synthesis.	<u>Understanding Based</u>	
	Indian Space Programmes, Indian & Foreign Satellites, Hyperspectral Remote Sensing, Thermal and Microwave Remote Sensing,	Types of Remote Sensing	Maps, Flow Charts, Audio Visual Classroom			
	UNIT II					
	Elements of Visual Image Interpretation,	Visual Image Interpretation	Diagrams, Models,		Illustrate the GIS techniques of processing	Understandin
	Ground Verification. Applications of Remote Sensing.	Importance of	Use of ICT ,			



OCT

Major Remote Sensing Practicals using Erdas& SAGA Software, Creation of Base Map from Toposheet or Satellite Image

Applications and ground verification.

Models,

remotely sensed data.

g-40

Thematic mapping

Diagrams, Models.

Use of R.S. Software

Higher Order Thinking Skills Based

Higher Order-30

Demonstrate orbital characteristics and data products.

NOV TO DEC

UNIT III

Layer Stacking, Mosaicking & Subset

Image Enhancement Techniques

Diagrams, Models.

Use of R.S. Software

Low Pass & High Pass Filtering

Image Enhancement Techniques

PPT, Demonstration Models.

Use of R.S. Software

NDVI, Resolution Merge

Image Enhancement Techniques

Models.

Use of R.S. Software

Sr. Pearl
 PRINCIPAL
 SOPHIA GIRLS' COLLEGE
 (AUTONOMOUS)
 AJMER

Gadew
mk
 Head
 Department of Geography
 Sophia Girls' College
 (Autonomous), Ajmer



SOPHIA GIRL'S COLLEGE (AUTONOMOUS), AJMER

B.A SEMESTER II

HUMAN GEOGRAPHY PAPER II (GEO-202)

Marks : 75 (50Ext; 25 Int)

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

Duration: 2^{1/2} hrs

COURSE PLAN

UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
UNIT I Nature, Scope	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.	<u>Knowledge Based</u> Explain the nature and scope of human geography.	Knowledge--55
Concepts of man-environment relationship: Determinism, Possibilism, Neo-determinism;	Forces of nature	Flipped Classroom, Quiz, Demonstration		<u>Understanding Based</u>	
Races of Mankind	Tribes with examples of their economic activities.	Maps, Flow Charts.		Categorize the early economic activities.	
UNIT II Human Adaptation to the environment: (i) Cold region—Eskimo; (ii) Hot region Bushman, Beduin;	Human Evolution, Variations of the Mankind	Diagrams, Maps and Quiz.	Classify the different tribes of the world and use various factors to interpret the	With the help of suitable map show the distribution of human races.	Understanding-30



	(iii) Plateau—Masai			spatial distribution of population.	<u>Higher Order Thinking Skills Based</u> Discuss the factors affecting the population growth and distribution in India.	Higher Order-15
	World's population: factors affecting, growth, density and spatial distribution;	Population zones	Diagrams, Models, demonstration through Globe.			
	Concepts of over, under, optimum and Zero population growth.	Push and Pull factors	Maps, Diagrams, Models, Demonstration			
MAR. – APR.	UNIT III Migration: Types ; Griffith Taylor's Migration Zone Theory;	Immigration and emigration.	Demonstration through rock samples	Visualize the various patterns of migration, settlements and summarize the major problems of urbanization in India.	Critically evaluate the migration zone theory.	
	Human Settlements: Site and Situation, House types (with special reference to India);	Types of settlements	PPT, Demonstration			
	Urbanization: factors affecting, associated problems.	Urban Sprawl, Slum expansion, unemployment.	PPT, Case Studies, Flipped Classroom			

Sr. Pearl
PRINCIPAL
SOPHIA GIRLS' COLLEGE
(AUTONOMOUS)
AJMER

Shilpi Yadav

Shilpi
Head
Department of Geography
Sophia Girls' College
(Autonomous), Ajmer



SOPHIA GIRL'S COLLEGE (AUTONOMOUS), AJMER

B.A III (SEMESTER VI)

REGIONAL GEOGRAPHY OF THE WORLD:

(NORTH AMERICA, SOUTH AMERICA AND AFRICA)

(PAPER II) (GEO-602)

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 II DEC.- JAN.	UNIT I North America: Major Physiographic Divisions; Drainage- Mississippi, St. Lawrence, Colorado River	Latitudinal and Longitudinal Concept, Types of Delta	PPT, Chart, Maps, Visual 3- D Models	Gain geographical knowledge of North America and by identifying the	<u>Knowledge Based</u> 3. What is Solar System? 4. Illustrate the different	



	Systems; Climate; Natural Vegetation;			physiographical elements and trace the economic development.	layers of Earth's Interior?	
	Agriculture Belts; Minerals: Iron, Copper, Zinc, Bauxite, Uranium, Limestone, Manganese;	Division of soil and Climate	Match the following, Quiz, Demonstration	Gain geographical knowledge of South America and by identifying the physiographical elements and trace the economic development.	<u>Understanding Based</u> 3. Compare the Continental Drift Theory and the concept of Plate Tectonics?	Knowledge--55
	Power: Coal, Petroleum and Natural Gas; Industries: Iron and Steel, Engineering & Textiles, Manufacturing; Spatial distribution of Population.	Formation of Fossil fuel, Geological structure, Heat zones	Maps, Flow Charts	Gain geographical knowledge of Africa and by identifying the physiographical elements and trace the economic development.	4. Classify the different landforms formed by the action of river? <u>Higher Order Thinking Skills Based</u> 3. Justify the present distribution of world continents and oceans on the basis of Harry Hess's Plate Tectonics Theory? 4. Critically evaluate the concepts of Sea Floor spreading?	30 Higher Order-15



FEB.	UNIT II South America: Major Physiographic Divisions; Drainage: Amazon, Orinoco, and Paraguay River Systems; Climate; Natural Vegetation;	Latitudinal and Longitudinal Concept, Types of Delta	Diagrams, Models, demonstration through Globe			
	Agriculture; Minerals: Iron, Copper, Zinc, Bauxite, Limestone, Manganese;	Division of soil and Climate	Diagrams, Models, demonstration through Globe			
	Power: Coal, Petroleum and Natural Gas; Industries: Iron and Steel, Engineering, Agro-based, Manufacturing; Spatial distribution of Population.	Formation of Fossil fuel, Geological structure, Heat zones	Maps, Diagrams, Models, Demonstration			
MAR. – APR.	UNIT III Africa: Major Physiographic Divisions; Drainage- Nile, Congo, Niger River Systems; Climate;	Latitudinal and Longitudinal Concept, Types of Delta	Demonstration through rock samples			
	Natural Vegetation; Agriculture; Minerals: Iron, Copper, Zinc, Bauxite, Uranium, Gold;	Division of soil and Climate	PPT, Demonstration			



	Power: Coal, Petroleum and Natural Gas; Industries: Iron, Copper, Diamond, Oil, Gold; Spatial distribution of Population.	Formation of Fossil fuel. Geological structure, Heat zones	PPT, Case Studies, Flipped Classroom			
--	---	--	--------------------------------------	--	--	--

Shilpi Yadav

Sr. Pearl
PRINCIPAL
SOPHIA GIRLS' COLLEGE
(AUTONOMOUS)
AJMER

Shilpi
Head
Department of Geography
Sophia Girls' College
(Autonomous), Ajmer



SOPHIA GIRLS' COLLEGE, AJMER (Autonomous)

M. A/M. Sc GEOGRAPHY

SEMESTER II

PRACTICAL GEOGRAPHY: AIR PHOTO INTERPRETATION AND GPS

(GEOM-205)

Max Marks: 100(70Ext; 30 Int)

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

Credits: 06

Duration: 05 hrs

COURSE PLAN

SEM/ Mont h	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM II	Air Photos and Photogrammetry: Elements of photographic system: types, scales and ground coverage, resolution, radiometric characteristics, films, filters, aerial cameras, film exposures	Image interpretation elements. Flight planning.	PPT, Chart, Maps, Visual 3- D Models Match the following, Quiz, Demonstration Maps, Flow Charts	To develop knowledge, skills and competency to use stereoscopes, GPS for spatial mapping and referencing	<u>Knowledge Based</u> Discuss the elements of photographic system. <u>Understanding</u> <u>Based</u> Explain the Geometric fundamentals of photogrammetry	Knowledge--60
	Geometric fundamentals of photogrammetry: Elements of vertical photographs, relief displacement, image parallax, stereoscopic, ortho photos air photo interpretation: shape, size, pattern, tone, texture, shadows, and site.	Concept of Ortho-photographs. Image Interpretation Elements Stereoscopic Vision	Diagrams, Models, demonstration through Globe Diagrams, Models, demonstration through Globe Maps, Diagrams, Models, Demonstration		<u>Higher Order Thinking Skills Based</u> Summarize the importance of GPS Surveying.	Understanding-30 Higher Order-10



	GPS Surveying and Mapping: Field Exercises using Hand Held GPS	GPS Survey	PPT, Demonstration PPT, Case Studies, Flipped Classroom			
--	--	------------	---	--	--	--

Shilpi Yadav

Sr. Pearl
PRINCIPAL
SOPHIA GIRLS' COLLEGE
(AUTONOMOUS)
AJMER

Shilpi
Head
Department of Geography
Sophia Girls' College
(Autonomous), Ajmer



SÔPHÎA GIRLS' COLLEGE, AJMER (*Autonomous*)

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

PRACTICAL GEOGRAPHY: GEOGRAPHIC INFORMATION SYSTEM APPLICATION (GEOM-405)

Max Marks: 100(70Ext; 30 Int)

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


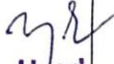
Credit: 06

Duration: 05 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM IV JAN.	UNIT I Major Concepts in GIS <ul style="list-style-type: none"> Introduction to GIS Basic Concepts: Definition and History, Components of GIS, Recent Trends and Applications of GIS. 	Elements of Geography	PPT, Chart, Maps, Visual 3- D Models	Demonstrate proficiency in integrated geographical knowledge using geographical research tools including Spatial Statistics, Cartography, Remote Sensing, GIS and GPS.	<u>Knowledge Based</u> Discuss the elements of information technology. <u>Understanding</u> <u>Based</u> Summarize the Elements of spatial data.	Knowledge--30 Understanding-30 Higher Order-40
	<ul style="list-style-type: none"> Data Structure and Formats, Spatial Data Models – Raster and Vector, Data Base, Linkage between Spatial and Non-Spatial Data, Data Inputting in GIS, 	Raster & Vector Data Models and Structure	Match the following, Quiz, Demonstration on Software			
	<ul style="list-style-type: none"> Generating Thematic Map from the Toposheet. Advanced GIS: Clip, Buffer, Proximity Analysis, Overlay Analysis. 	Geo – Spatial Analysis	Maps, Flow Charts			
FEBRUARY	UNIT II <ul style="list-style-type: none"> Network Analysis, Interpolation, DEM, TIN. 	Neighbourhood operations and connectivity	Diagrams, Models, Globe		<u>Higher Order Thinking</u>	



	Major GIS Practical's using ArcGIS and QGIS Softwares	Database management systems	Diagrams, Models, Demonstration on Software		<u>Skills Based</u> Illustrate the applications of GIS in Land Information System.	
	<ul style="list-style-type: none"> Digital Database Creation – Point Features, Line Features, Polygon Features Data Collection and Integration, Non-Spatial Data Attachment Working with Tables Editing and Digitization 		Maps, Diagrams, Models, Demonstration on Software			
MARCH - APRIL	UNIT III	Decision Support System	Diagrams, Models, Demonstration on Software	Gadai		
	<ul style="list-style-type: none"> Clipping, Intersection, Union and Buffering Techniques. Spatial and Attribute Query and Analysis 					
	<ul style="list-style-type: none"> Interpolation Techniques GPS And GIS Integrations Output Preparation (Transfer of GPS Point Location) 	GIS policy application	PPT, Demonstration on Software			
 PRINCIPAL SOPHIA GIRLS' COLLEGE (AUTONOMOUS) AJMER	LU/LC Using Supervised and Unsupervised Classification	Digital Image Processing and Map Making	PPT, Demonstration on Software	 Head Department of Geography Sophia Girls' College (Autonomous), Ajmer		
	Map Making					