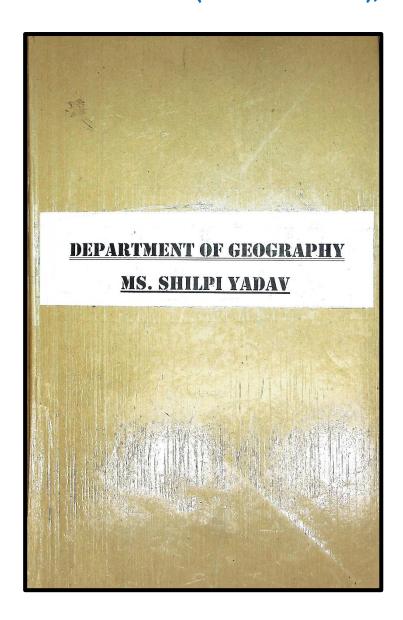


SOPHIA GIRLS' COLLEGE (AUTONOMOUS), AJMER





SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS)

B.A SEMESTER I

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

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 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,	Classify and understand the physiographic divisions of	Knowledge Based Elaborate the Physiographical features of	
			Maps, Quiz.	Rajasthan.	Rajasthan.	
	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</u> Based	Knowledge60
SEPT.	UNIT II Population: Factors affecting, Growth, Density, Distribution	Sex ratios, Gender issues.	Diagrams, Tables and flow charts.	Enumerate the qualitative and quantitative	Discuss the factors affecting population density	Understanding-
	Tribes: Meena, Bhill, Garasia and Saharia;	Social structure of tribes.	Diagrams, PPT's.	aspects of population and determine the	in Rajasthanead Department of Geo Sophia Girls' Coll	
	Agriculture: Major crops (Bajra,	Dryland Farming	Mans	agricultural	Hisutonomous), Aj	nleigher Order-

	Wheat, Gram, Jowar, Maize, Barley, Cash crops: Sugar cane, Cotton, Oil seeds), Dryland Farming	Wäter Logging.	Diagrams, Flip Learning.	regions of Rajasthan.	Thinking Skills Based Justify the present distribution of	10
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.	Diagrams, Models, demonstration through Globe, Blended Learning	List the major metallic, non- metallic resources and correlate with industrial development of	power resources with the help of suitable map.	
	Power Resources: Non- Renewable (Coal, Petroleum, Natural gas, Hydroelectricity, Atomic); Renewable (Wind, solar, Biogas);	Coke, charcoal.	PPT, Demonstration, PDF's	the state.		
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SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS)

B.A SEMESTER I

PRACTICALS BASICS OF CARTOGRAHY (GEO-103)

Max. Marks: 50(40Ext; 10 Int)

Min Marks: 20(16 Ext;4 Int)

Credit: 02

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COURSE PLAN

М	EM/ onth	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
	EM I .UG.	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	Knowledge Based Practical File Work Understanding Based	Knowledge
Si	EPT.	Representation of different landforms by contours.	Topographical understanding, Landform distribution	Demonstration with 3 D Models, Tracing Table	competency regarding area analysis and map making with relief	Lab exercises Draw a Plain Scale on R.F 1:50,000	30 Understanding
	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	features and profiles.	Thinking Skills Based Interpret and develop a Profile for the given region? Viva Voce	-50 Higher Order 20



SOPHIA GIRLS' COLLEGE, AJMER (Autonomous)

B.A SEMESTER V

ENVIRONMENT GEOGRAPHY- (PAPER I) (GEO-501)

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

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

Credit: 03

Duration: 21/2 hrs

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM V AUG.	UNIT I Definition, Scope and Importance of Environment Geography; Elements of Environment: Physical and Cultural;		PPT, Chart, Maps, Visual 3- D Models	Recall and relate the elements of environment which are impacting the climate and	Knowledge Based 3. What is Solar System? 4. Illustrate the different layers of Earth's Interior?	
	Environmental Ethics: Issues and solutions,		Match the following, Quiz, Demonstration	present surroundings.	Understanding Based 3. Compare the	Knowledge55
	Climate change, Global warming, Ozone layer depletion		Maps, Flow Charts, Discussions		Continental Drift Theory and the concept of Plate	Understanding-
SEPT.	UNIT II		Diagrams, Models,	Justify the	Tectonics? 4. Classify the	Congolal

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Department of Geography Sophia Girls' College

(Autonomous), Ajmer

		Ecosystem: Concept, Biotic and Abiotic elements; Structure and Function of an ecosystem;	,	demonstration through PDF's and PPT's	fundamentals of ecology and the dynamic	different landforms formed by the action of river?	30 Higher Order-
		Classification: Forest, Grassland, Desert, Aquatic ecosystems; Energy flow in the ecosystem: Food chains, Food webs and Energy pyramids.		Diagrams, Models, demonstration through Globe Maps, Diagrams, Models,	ecosystem.	Higher Order Thinking Skills Based 3. Justify the present distribution of world continents	15
	OCT NOV.	UNIT III Biodiversity: Definition, Concept, In-situ and Ex-situ conservation; Environmental Pollution: Cause, Types (Air, Water, Soil, Marine, Noise,		Demonstration Demonstration through PPT's and PDF's PPT, Discussions PPT, Case Studies, Flipped	Prioritize the importance and the need to conserve biodiversity.	and oceans on the basis of Hary Hess's Plate Tectonics Theory? 4. Critically evaluate the concepts of Sea Floor spreading?	
PRINCII SOPHIA GIRLS (AUTONO) AJME	PAL COLLEGE MOUS)	Nuclear Pollution), Measures to control various pollution.		Classroom		Department of Sophia Girls (Autonomous	Geography 'Crillege



SOPHIA GIRLS' COLLEGE, AJMER (Autonomous) M. A/M.Sc. GEOGRAPHY (Previous) SEMESTER I GEOGRAPHICAL THOUGHT (GEOM-101) COURSE PLAN

SEM/ Mont h	UNIT/TOPIC	Concepts /Facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I NOV.	UNIT I The nature and scope of geography: Geography of Vedic age and Geography of Purana: Dwipa, oceans.	Origin of the subject, environmental determinism. Understanding of Vedas & Upnishadas	PPT, Diagrams, Flow Charts.	Recognize the elements of Geography and trace the evolution of the subject.	Knowledge Based Summarize the elements of geography.	
	River and Mountain systems, Contribution of Greek	Puranic rivers and mountains, Geographical understanding of countries	Flipped Classroom, Diagrams.		<u>Understandi</u> ng	Knowledge
	Roman and Arab Geographers	Geographical understanding of countries	Maps. Flow Charts. PPT.		Examine the contributions	Understandi
DEC.	German school of Geography: Contribution of Humboldt, Ritter and Ratzel;	Geographical understanding of countries	Charts, Demonstration through Maps.	Discover and develop understanding about the contributions of various schools of	of Arab Geographers	ng-30

8		School of French Geography: Contribution of Blache and Brunhes;	Geographical understanding of countries.	PPT, Maps, Flow Charts	Geographical Thought.		Higher Order-30
		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	
	TO FEB.	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	Elaborate the concept of Dualism in Geography.	anday
		Quantitative revolution in geography; Behavioural geography;	Development of the subject.	PPT, Class discussions.	subject.		A Company
Sr. Pea	ıl	Concepts of Terrestrial unity, Pragmatism, Idealism, Positivism, Radicalism and Areal differentiation.	Human ideologies.	PPT, Flipped Classroom	20.1		



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)

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

Credit: 06

Duration: 05 hrs

SEM/ Mont h	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM III JULY	UNIT I Remote Sensing: Definitions, Concepts, Evolution and Stages of Remote Sensing, Electromagnetic Spectrum. Data Acquisition, Platforms, Sensors, Resolutions, Launch Vehicles, Merit and Demerit of Remote Sensing. Indian Space Programmes, Indian & Foreign Satellites,	Electromagnetic radiation, Concept of remote sensing. Platforms, Launch Vehicles Resolutions and sensors Types of	PPT, Chart, Maps, Visual 3- D Models Match the following, Quiz, Demonstration Maps, Flow	Build a functional understanding of basic remote sensing concepts and applications. Demonstrate GIS techniques of processing remotely sensed data and	Knowledge Based Discuss the functional understanding of basic remote sensing concepts and applications.	Knowledge
	Hyperspectral Remote Sensing, Thermal and Microwave Remote Sensing,	Remote Sensing	Charts	understand data acquisition, storage and its synthesis.	Understanding Based Illustrate the	30 Understandin
AUG UST	Elements of Visual Image Interpretation,	Visual Image Interpretation	Models, demonstration through Globe		GIS techniques of processing remotely sensed data.	Dadau

	Ground Verification. Applications of Remote Sensing.	Importance of	Diagrams,			g-40
		Applications				
		and ground	Models,		<u>Higher Order</u>	
		verification.	demonstration	4	Thinking Skills	Higher
			through Globe		<u>Based</u>	Order-30
	Major Remote Sensing Practicals using Erdas & SAGA	Thematic	Maps,		Demonstrate	Order-30
	Software, Creation of Base Map from Toposheet or Satellite	mapping	Diagrams,		orbital	
	Image	11 8	a mgruno,		characteristics	
	The state of the s		Models.		and data	
					products.	
SEPT	UNIT III					
EMB		Image	Diagrams,			
ER-	Layer Stacking, Mosaicking & Subset	Enhancement	Models.			
OCT		Techniques	Wiodels.			
OBER						
	Low Pass & High Pass Filtering					
	ass to riight ass t intering	Image	PPT,			
		Enhancement	Demonstration			1 mil
		Techniques				In don't
20 1	NDVI, Resolution Merge	Image	PPT, Case	m		(P)
r'learl		Enhancement	Studies,	1/ 1	Geography	7
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SOPHIA GIRLS' COLLEGE, AJMER (Autonomous)

M. A/M.Sc GEOGRAPHY (Previous)

SEMESTER II

POPULATION GEOGRAPHY (GEOM - 103)

Max Marks: 100(70Ext; 30 Int)

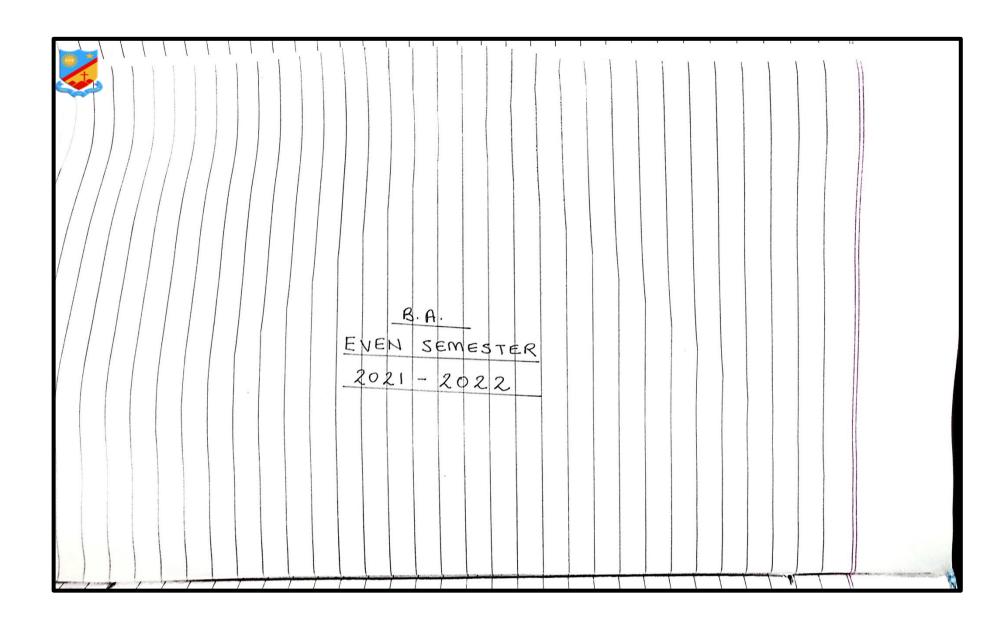
Min. Marks: 40(28 Ext;12 Int) Duration: 03 hrs

Credit: 06

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I	UNIT I Population Geography: Nature, Scope;	Demography, Factors affecting.	PPT, Chart, Maps.	Explain the development of demography	Knowledge Based Summarize the development of	
NOV.	Objectives and Approaches;	Demography, Factors affecting.	PPT, Quiz.	and elaborate the concept of	demography and elaborate the concept of	
	Modern theories: Malthusian Theory, Optimum Theory and Demographic Transition Theory.	Concept of Sustainable development	Flow Charts, Diagrams.	population.	population. Understanding	Knowledge
DEC.	Population Dynamics: Qualitative and Quantitative aspect;	Age pyramids, Factors affecting, Qualitative aspects of population.	Diagrams, Models, demonstration through Globe	Measure and discuss the population dynamics of the world.	Understanding Based Examine the population dynamics of the	40 Understanding
	Urbanization (with special reference to India);	Urban Sprawl, Slum development.	Diagrams, Models,	world.		30
	Migration: Types, Causes, Consequences and related theories.	Push and Pull Factors	Maps, Diagrams, Models, Demonstration		Higher Order Thinking Skills Based	Higher Order-
JAN.	UNIT III World Population Distribution;	Regional disparity	Demonstration through rock samples	Critically evaluate the population as a	Evaluate the theories of migration.	30
FEB	Ackerman's Population Resource Regions; Critical appraisal of Population Policies of India;	Government initiatives and need of regional planning.	PPT, Demonstration	resource and population policies.		

0 0 0	Human Development Index: Indicators and Measurements.	Social welfare and well- being, Happiness Index.	PPT, Case Studies, Flipped Classroom		Gadau
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SOPHIA GIRL'S COLLEGE (AUTONOMOUS), AJMER

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: 21/2 hrs

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	Knowledge Based Explain the nature and scope of	
	Concepts of man-environment relationship: Determinism, Possibilism, Neo- determinism;	Forces of nature	Flipped Classroom, Quiz, Demonstration	geography and distinguish between the different	human geography. <u>Understanding</u> Based	
	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.	concepts of man – environment relationship.	Categorize the early economic activities.	Knowledge55
JAN.	UNIT II Human Adaptation to the environment: (i) Cold region—Eskimo; (ii) Hot region Bushman, Beduin; (iii) Plateau—Gonds, Masai, (iv) Mountain-Gujjars;		Diagrams, Maps and Quiz.	Classify the different tribes of the world and use various factors to interpret the spatial	With the help of suitable map show the distribution of human races. Higher Order Thinking Skills	Understanding- 30 Higher Order-
	World's population: factors affecting, growth, density and spatial distribution;		Diagrams, Models, demonstration through Globe.	distribution of population.	Based Discuss the factors affecting the	15

Concepts of over, under, optimum and Zero population growth. Diagrams, Models, Demonstration Demonstratio	-		-			_
MAR. Migration: Push and Pull factors, Types; Griffith Taylor's Migration Zone Theory; Human Settlements: Site and Situation, House types (with special reference to India); Urbanization: factors affecting, associated problems. Urbanization: factors affecting, problems. Urbanization: factors affecting, unemployment. Wigration: through rock samples patterns of migration, settlements and summarize the major problems of urbanization in India. Critically evaluate the migration zone theory. Various patterns of migration, settlements and summarize the major problems of urbanization in India.	optimum and Zero population		Diagrams, Models,		and distribution in	
Human Settlements: Site and Situation, House types (with special reference to India); Urbanization: factors affecting, associated problems. Human Settlements: Site and Demonstration problems of Urban Sprawl, Slum expansion, unemployment. PPT, Demonstration problems of Urban Sprawl, Slum expansion, unemployment. PPT, Case Urbanization in India.	Migration: Push and Pull factors, Types; Griffith Taylor's Migration Zone		through rock	various patterns of migration,	the migration zone	
Urbanization: factors Urban Sprawl, Slum PPT, Case urbanization in India. affecting, associated expansion, problems. Urban Sprawl, Slum expansion, Studies, Flipped	Human Settlements: Site and Situation, House types (with		Demonstration	the major problems of		Godall.
	Urbanization: factors affecting, associated problems.	expansion,	Studies, Flipped			
	SOPHIA GIRLS GOLLEG (AUTONOMOUS) AJMER				(Aut	Head mert of Geography phia Girls' College conomous) , 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: 21/2 hrs

SEM/ Month	UNIT/TOPIC	Concepts/ facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM II DEC.	North America: Major Physiographic Divisions; Drainage- Mississippi, St. Lawrence, Colorado River Systems; Climate; Natural Vegetation;		PPT, Chart, Maps, Visual 3- D Models	Gain geographical knowledge of North America and by identifying the physiographical elements and trace the economic development.	Knowledge Based What is Solar System? Illustrate the different layers of Earth's Interior? Understanding Based	
	Agriculture Belts; Minerals: Iron, Copper, Zinc, Bauxite, Uranium, Limestone, Manganese;		Match the following, Quiz, Demonstration	knowledge of South America and by identifying the physiographical elements	Compare the Continental Drift Theory and the concept of Plate	Knowledge55 Understanding-
	Power: Coal, Petroleum and Natural Gas; Industries: Iron and Steel, Engineering & Textiles, Manufacturing; Spatial distribution of Population.		Maps, Flow Charts	and trace the economic development. Gain geographical knowledge of Africa and by identifying the physiographical elements	Tectonics? Classify the different landforms formed by the action of river?	30 Higher Order- 15

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				and trace the economic development.	Higher Order Thinking Skills Based Justify the present	
JAN.	UNIT II South America: Major Physiographic Divisions; Drainage: Amazon, Orinoco, and Paraguay River Systems; Climate; Natural Vegetation;		Diagrams, Models, demonstration through Globe		distribution of world continents and oceans on the basis of Hary Hess's Plate Tectonics Theory? Critically evaluate	
	Agriculture; Minerals: Iron, Copper, Zinc, Bauxite, Limestone, Manganese;		Diagrams, Models, demonstration through Globe		the concepts of Sea Floor spreading?	
	Power: Coal, Petroleum and Natural Gas; Industries: Iron and Steel, Engineering, Agro-based, Manufacturing; Spatial distribution of Population.		Maps, Diagrams, Models, Demonstration			Gordan
FEB MAR.	UNIT III Africa: Major Physiographic Divisions; Drainage- Nile, Congo, Niger River Systems; Climate;		Demonstration through rock samples	Se Pearl		nk
	Natural Vegetation; Agriculture; Minerals: Iron, Copper, Zinc, Bauxite, Uranium, Gold;	į.	PPT, Demonstration	Sr. Pearl PRINCIPAL SOPHIA GIRLS' COL	LEGE	Department of Geography Sophia Girls' College
	Power: Coal, Petroleum and Natural Gas; Industries: Iron, Copper, Diamond, Oil, Gold; Spatial distribution of Population.		PPT, Case Studies, Flipped Classroom	(AUTONOMOUS AJMER	3)	(Autonomous), Ajmer

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

DIGITAL CARTOGRAPHY, AERIAL PHOTOGRAPHY AND GPS (GEOM-204) (30 Int) Min. Marks: 40(28 Ext;12 Int) Credits: 06

Max Marks: 100(70Ext; 30 Int)

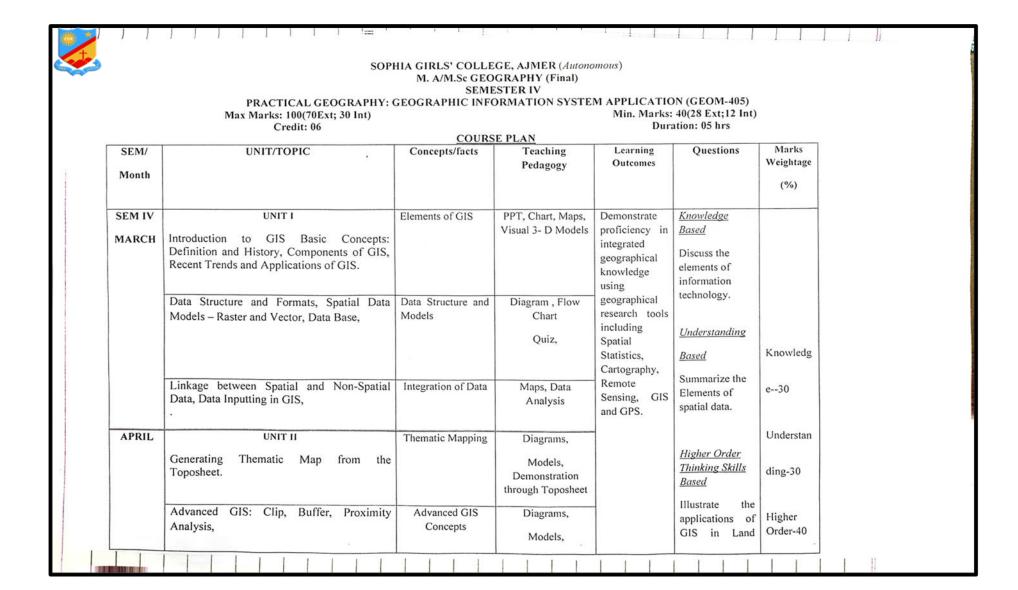
Min. Marks: 40(28 Ext;12 Int) COURSE PLAN

Duration: 03 hrs

SEM/ Month	40000	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weight age (%)
SEM II	Nature and Scope of Cartography, Basic Geodesy, Geoid /Datum/ Ellipsoid, Elements of Digital Cartography,	photography Discuss the		Based Discuss the principles and	Knowle	
	Maps: Types, Purpose and Classification, Generalization of Map, Map Layout, Data Models for Digital Cartographic Information,	Map coordinate system, Topographie maps.	Match the following, Quiz,	distinguish the elements of photo interpretatio	elements of Digital Cartography.	dge—40
	Qualitative Mapping Techniques: Choroschematic and Chorochromatic. Quantitative Mapping Techniques: Choropleth and Isopleth.	Data models for digital cartographic information	Maps, Flow Charts	n.	Understanding Based Exemplify the functional segments of	anding-
	Aerial Photography: Introduction to Aerial Photography – Basic Information and Specifications of Aerial Photographs;	Acrial Photography	Diagrams, Models.	Become familiar with the history, film type, and angles	GPS. <u>Higher Order</u> Thinking Skills	Higher Order- 30
	Planning and Execution of Photographic Flights Basic; Geometric Characteristics of Aerial Photographs- Types of Aerial Photographs,	Flight Planning & Execution	Diagrams, Models, demonstration through Globe	of aerial photography distortions and	Based Compare the limitations and advantages of	

	Types of Aerial Camera. Photogrammetry and Its Applications.	Stereographic vision,	through Globe Maps, Diagrams,		Thinking Skills Based	
JUNE - JULY	UNIT III Global Positioning System (GPS) – Introduction of Global Positioning System and Its Segments,	Coordinate system, Locational understanding.	Maps, Diagrams, Models, Demonstration	Use photogrammetric techniques to calculate:	Compare the limitations and advantages of Arial Photographs	
*	Satellite Constellation, Factors Affecting of GPS, GPS Signals and Codes	Understanding satellite signals,	PPT, Demonstration, Diagrams	distance, area and object height from aerial		gadaul
	Geo-Positioning-Basic Concepts. NAVSTAR, GLONASS, GALILEO & NAVIC, Applications of GPS.	Space Programs.	PPT, Demonstration Video	photographs.		
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JUNE TO JULY	GPS Surveying Field Exercises Held GPS.	and Mapping: using Hand	Image interpretation elements. Flight planning.	PPT, Demonstration Case Studies, Flipped Classroom	Higher Order Thinking Skills Based Summarize the importance of GPS Sureying.	Endail	
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	Overlay Analysis, Network Analysis, Interpolation, DEM, TIN.	GIS-Digital Elevation Models	Maps, Diagrams, Models,	formation vstem.		
MAY- JUNE	UNIT III Digital Database Creation – Point Features, Line Features, Polygon Features, Data Collection and Integration, Non-Spatial Data Attachment Working with Tables ,	Shapefile's creations	Diagrams, Models, Software Training			
	Editing and Digitization, Clipping, Intersection, Union and Buffering Techniques.Spatial and Attribute Query and Analysis, Interpolation Techniques	Spatial Analysis	PPT, Software Training.		O 1 mil	<i>,</i> ·
	GPS And GIS Integrations Output Preparation (Transfer of GPS Point Location), LU/LC Using Supervised and Unsupervised Classification, Map Making.	Map Making	PPT, Software Training.		Loday	
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