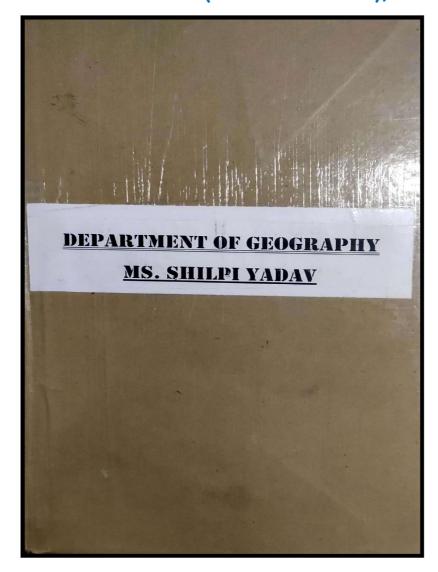


## SOPHIA GIRLS' COLLEGE(AUTONOMOUS), AJMER





SOPHIA

# 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

1			COURSE PLAN				
	SEM/	UNIT/TOPIC	Concepts/facts	Teaching	Learning	Questions	Marks
1	Month			Pedagogy	Outcomes		Weightag
١	1			0 50			e
							(%)
	SEM I	UNIT I	Water divide of India,	PPT, Chart,	Classify and	Knowledge Based	
ı	JULY	Geological structure; Physiography; Climate: Climatic	Windward and Leeward.	Maps, Quiz.	understand the	Elaborate the	1
		conditions, Climatic regions; Drainage: Rivers and Lakes;			physiographic	Physiographical	
1		Soil: Classification and distribution of Soils; Animal Resource:	Badlands, Sand dunes,	Maps, Quiz,	divisions of	features of	
		Dairy Development; Drought and Famine, Desertification;	Soil profile.	Diagrams.	Rajasthan.	Rajasthan.	
		Vegetation: Factors affecting, Types of forests; their	Climate change, saline	Maps, Flow	1 1	W7.5	
		conservation.	soils.	Charts.		Write a note on	-
1	AUGU	UNIT II	Sex ratios, Gender	Diagrams,	Enumerate the	desertification in	
1	ST	Population: Qualitative and Quantitative aspects, Population	issues.	Tables and	qualitative and	Rajasthan.	Vasudada
		Problems and Measures;		flow charts.	quantitative	<u>Understanding</u>	Knowledg
Towns or the		Tribes of Rajasthan: Saharia, Meena, Bhils and Garasia, their	Social structure of	Diagrams,	aspects of	Based	
		problems and programmes for their development; Agriculture:	tribes.	PPT's.	population and	Discuss the	e60
1		Major crops-Bajra, Wheat, Gram, Jowar, Maize, Barley, Cash	Dryland Farming, Water	Maps,	determine the	factors affecting	e00
		crops: Sugar cane, Cotton, Oil seeds, Agricultural Regions of the	Logging.	Diagrams,	agricultural	population	
A COMPANY		State, Dry farming.		Flip	regions of	density in	Understan
-		•	,	Learning.	Rajasthan.	Rajasthan.	Onderstan
						Rajastian.	1
1	SEPTE	UNIT III	Illegal mining,	through rock	List the major		ding-20
- Park	MBER-	Mineral Resources: Distribution of Metallic Minerals: Iron-ore,	geological structure,	samples.	metallic, non-	Higher Order	ung-20
1	осто	Zinc, Manganese, Lead, Silver, Copper, Tungsten.	rocks types.		metallic	Thinking Skills	- 1
-	BER	Non-Metallic: Gypsum, Mica, Manganese, Limestone, Marble;	Coke, charcoal,	PPT,	resources and	Based	Higher
		Power Resources- Coal, Petrol, Natural gas, Hydroelectricity,	metamorphism,	Demonstratio	correlate with	Justify the present	Order-20
-		Wind, Atomic, Biogas etc., Problems and Measures;	continental shelf,	n	industrial	distribution of	Order-20
	10		sustainable utilization.		development	power resources	_ []
-	1. Year	*			of the state.	with the help of	Q nali
-	OTHE TOAL	Industrial development: Cotton textile, Cement and Stone	Availability of	PPT, Case	and	suitable map.	Saday
3	RINUIPAL GIRLS' COL	Industry; Transport of Rajasthan.	Resources, Mineral	Studies,	Dentiles		9
	LONOWOR		extraction, Localization	Flipped	Sophia Girls Col	lege Ai-	
1	AJMER	<b>1</b>	factors.	Classroom	V_P	-sc, Almer	



SOPHIA

### 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) Credits: 02

**Duration: 5 hrs** 

	0774		JRSE PLAN				
	SEM/ Month	UNIT/TOPIC	Concepts/fac	Teaching	Learning	Questions	Marks
-	Month		ts	Pedagogy	Outcomes		Weighta
	CEMI						ge (%)
-	SEM I JULY	The nature and scope of cartography. Types of cartographic symbols and their uses:  (a) Points (dots, proportional circles and spheres)	Basic mathematics, Tables, Conversion Units	Exercises with Use of Wooden Geometry Box, Demonstration	To develop skills and competency regarding area	Knowledge Based Practical File Work	Knowled
A STATE OF THE PROPERTY OF THE PARTY OF THE	,	(b) Line, (isopleths and flow lines)  Areas (Choropleth) for representing population,			analysis and map making with relief	<u>Understandin</u> g <u>Based</u>	ge30
	AUGUST	agriculture, industry and transport data, land-use, cropping pattern, industries and transport etc.			features and profiles.	Lab exercises Draw a Plain Scale on R.F	Understa
	AUGUST	Scales: Plain Linear, Statement - Diagonal and Comparative; Representative Fraction.	Topographica	Demonstration with 3 D		1:50,000	nding-50
		Methods of showing relief- (hachures, shading, contours and layer tints)	understandin g, Landform distribution	Models, Tracing Table		Higher Order Thinking Skills Based Interpret and	Higher Order-20
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, TH	SEPTEMB ER- OCTOBER	Representation of different landforms by contours. Drawing of profiles: cross and long profiles, superimposed, composite and	Slopes, Areal topographical interpretation	Demonstration and Lab exercises with		develop a Profile for the given	Onda
11	Pearl	projected profiles and their relevance in landform mapping and analysis.		Animations P Animations P Deptt. of Sophia Girls	N Ggography	region? Viva Voce	
GI	NCIPAT RLS' COLLEGE NOMOUS) IMER			Sophia Girls	College, Aime	-	



### **B.A SEMESTER III**

## PRACTICAL: INTERPRETATION OF TOPOGRAPHICAL MAPS

(GEO-303)

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

Min Marks: 20(16 Ext;4 Int)

t) Credits: 02

**Duration: 5 hrs** 

	COURSE				<u> </u>	34.1
SEM/	UNIT/TOPIC	Concepts/fac	Teaching	Learning	Questions	Marks
Month		ts	Pedagogy	Outcomes		Weighta
			,			ge
						(%)
SEM I	Interpretation of Topographical Map.	Basic	Exercises	Develop	<u>Knowledge</u>	
JULY		mathematics,	with	understandin	<u>Based</u>	
3022	a. Primary Information (About Indexing, latitude and longitude	Tables,	Use of	g of the	Practical File	Knowled
17.	explanations and administrative setup)	Conversion	Wooden	Topographica	Work	
- 4		Units	Geometry	l landscapes		
			Box,	in	<u>Understanding</u>	ge30
			Demonstrati	consonance	<u>Based</u>	
39			on	to Survey of	Lab exercises	
AUGUST	b. Arrangement and Identification of Toposheets of India.	Topographica	Demonstrati	India	Draw a Plain	Understa
	,	1	on with 3 D	Toposheets	Scale on R.F	
	c. Use of Conventional signs and symbols;	understandin	Models,	and asses	1:50,000	
		g,	Tracing	their regional		nding-50
	d. Methods of representing relief on map contours level	Landform	Table	differentiatio	<u>Higher Order</u>	
	colouring spot heights, benchmarks.	distribution		n.	Thinking Skills	
SEPTEMB	e. Identification of relief features on a map through contours -	Slopes, Areal	Demonstrati		<u>Based</u>	Higher
ER-	conical hill, plateau, ridge, v-shaped valley, escarpment, cliff,	topographical	on and Lab		Interpret and	Order-20
OCTOBER	waterfall, types of slopes (uniform, undulating, convex and	interpretation	exercises		develop a	
	concave, gentle and steep); Interpretation of Relief, Drainage,		with Video		Profile for the	
	Settlements, Land-use, Vegetation and Transport network on		Animations	101)	given region?	1 / 1
801	Toposheets		Dept of Go	peraphy	Viva Voce	(1) sales
Surearl		Sa	pinia Girls Co	iela. Aimer		9
PRINCIPAL	f. Drawing of a cross-section or a profile from.	26	Pina Chia Co			X
IIA GIRLS' COLI	EGE	1 1 1 1 1 1 1 1 1 1 1 1 1				
AUTONOMOUS						

### B.A SEMESTER V

### REGIONAL GEOGRAPHY OF THE WORLD: (USA, France, Brazil)

(PAPER I) (GEO-502)

Marks : 75 (50Ext; 25 Int)

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

Credit: 03

Duration: 21/2 hrs

		COURSE P				1
SEM/ Mont h	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Ma Dis ut
SEM I JULY	UNIT I USA: Physiography, Drainage, Climate, Natural Vegetation, Agriculture Belts, Soil, Minerals, Power: Coal and Petrol, Industries: Iron and Steel and Engineering, Spatial distribution of Population and its economic development, Infrastructural development in terms of transport network.	Polar winds, Gulf stream,  Inland waterway, Geology of rocks.  Ecumene, Localisation factors.	PPT, Chart, Maps, Visual Models Match the following, Quiz, Maps, Flow Charts	Develop geographical understandin g of USA and analyze its economic development.	Illustrate the physiographic features of USA.     Discuss the minerals distribution of France and USA.	Knov
AUG UST	UNIT II France: Physiography, Drainage, Climate, Natural Vegetation, Minerals, Power resources: Coal and Petrol, Industrial Regions: Paris Basin,  Spatial distribution of Population and its economic development.	Temperate cyclones, Geology of rocks.  Extraction of resources.  Optimum population, migration.	Diagrams, Models, demonstration through Globe Diagrams, Models, demonstration through Globe Maps, Diagrams, Models, Demonstration	Develop geographical understandin g of France and analyze its economic development.	Understanding Based  1. Illustrate the climate of France. 2. Discuss the population distribution of USA.  Higher Order	undo
SEPT EMB ER- OCT OBER  SINCIPA GIRLS' ( JTONOMO	Spatial distribution of Population, Economic development and Urbanization.	Grasslands, Forest - ecosystem, ocean currents near the coastal regions. agro-forestry, Geological structure.  Ecumene, Migration.	Diagrams, Models, demonstration through Globe  PPT, Demonstration  PPT, Case Studies, Flipped Classepon of	Develop geographical understandin g of Brazil and analyze its economic development.  Geography College, Aime	Thinking Skills Based  1. Compare the climatic features of Brazil and USA.  2. Discuss the relevance of agricultural produce in Brazil.	Orde 25

### M. A/M.Sc. GEOGRAPHY (Previous) GEOGRAPHICAL THOUGHT

SEMESTER I (GEOM-101)

Iax Marks: 100(70Ext; 30 Int)

Credit: 06

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

			OURSE 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;  Development of modern geography in India;	Origin of the subject, environmental determinism.  Latest tools and techniques.	PPT, Diagrams, Flow Charts. Flipped Classroom, Diagrams.	Recognize the elements of Geography and trace the evolution of the subject.	Knowledge Based Summarize the elements of geography.	
	AUGUST	Geography of Vedic age and Geography of Purana: Dwipa, Ocean, River and Mountain systems.  UNIT II	Vedas & Upnishadas Evolution of	Maps, Flow Charts, PPT.	Discover and	<u>Understanding</u> Based	Knowledge
	Augusi	Ancient classical Geography: Contribution of Greek and Roman; Dark Age and contribution of Arab Geographers; Late medieval Geography: Age of travels, exploration and discoveries; German school of Geography: Contribution of Humboldt, Ritter and Ratzel; School of French Geography: Contribution of Blache and	Mankind.  Geographical understanding of countries.  Geographical	Demonstration through Maps. PPT, Maps, Flow Charts	develop understanding about the contributions of various schools of Geographical	Examine the contributions of Arab Geographers.	40 Understanding
		Brunhes; British and American school of Geography: Contribution of Mackinder, Herbertson, Miss Semple, Huntington and Davis.	understanding of countries.	Charts, Demonstration through Maps.	Thought.	Higher Order Thinking Skills Based	-30
8	SEPTEM BER- OCTOB ER	UNIT III  Dualism in Geography: Man-environment relationships (Determinism, Possibilism and Concept of Neodeterminism), 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	Elaborate the concept of Dualism in Geography.	Higher Order-
SOPHIA G (AUT	RINCIPAL BIRLS' COLLE CNOMOUS) AJMER	Quantitative revolution in geography; Behavioural	Development of the subject. Human ideologies.	PPT, Class discussions., PPT, Flipped Classroom	dichotomy in the subject.  Deptt. of Sophia Girls	eography \	Godey



M. A/M.Sc GEOGRAPHY (Final)

SEMESTER III

Credits: 06

AGRICULTURAL GEOGRAPHY (a) Max Marks: 100(70Ext; 30 Int)

(GEOM-301) Min. Marks: 40(28 Ext;12 Int)

Duration: 03 hrs

· Series			COURSE PLA	N			
	SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
to the control of the analysis of the Control of th	SEM I JULY	UNIT I  Nature and scope; development of agricultural geography;  Approaches to the study of agricultural geography: Origin and dispersal of agriculture;  Sources of agricultural data; Determinants of agricultural land use - Physical, economic, social, and technological.	Origin and dispersal of agriculture.  Agricultural regionalisation.  agricultural productivity.	PPT, Chart, Maps, Visual 3- D Models Match the following, Quiz, Maps, Flow Charts	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	
The state of the s	AUGU ST	UNIT II  Agricultural concepts and their measurements: cropping pattern, crop concentration, crop productivity, crop diversification, crop combination regions and agricultural development; Theories of agricultural location based on several multi-dimensioned factors:	Cropping efficiency.  Locational Rent, isostate	Diagrams, Models, demonstration through Globe Diagrams, Models,	Distinguish agricultural concepts and theories for the classification of agricultural regions.	Examine the determinants of agricultural land use.  Higher Order Thinking Skills Based Discuss the	Knowledge— 30 Understandi
		Von Thunen's theory of agricultural location and its recent modifications; Whittlesey's classification of agricultural regions.	topography and climate.	Maps, Diagrams, Models,	,	problems and solutions of contemporary Issues in	ng-40 Higher
200	SEPTE MBER- OCTO BER	UNIT III  Land use and land capability; Green Revolution and White Revolution; nutritional index.  Agricultural Policy in India. Contemporary	Land productivity.  Regional planning and management.	Diagrams, Models,	Examine the contemporary issues and discuss the agricultural policies of India.	Agriculture.	Order-30
SL.	S' COLLEGI MOUS) MER	Issues: Food security, drought and food security, food aid programmes; environmental degradation.	Environmental concerns.	PPT, Case Studies,	policies of India.  Deput  Sophia	of Geography ins College, Aim	er



# M. A/M.Sc GEOGRAPHY (Final) SEMESTER III PRACTICAL GEOGRAPHY: REMOTE SENSING TECHNIQUES

Max Marks: 100(70Ext; 30 Int)

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

(GEOM-305) Credit: 06

Duration, 05 L

-	SEM/	COLIE	RSE PLAN	Credit: 06	Dui	ration: 05 hrs	
1	Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcome s	Questions	Marks Weight
	SEM I JULY	UNIT I  Historical development of remote sensing as a technology-Relevance of remote sensing in Geography  Concepts and basics: Energy source, energy and radiation principles, energy interactions in the atmosphere and earth surface features,	Electromagnetic radiation, Concept of remote sensing.  Energy source, energy and radiation principles	PPT, Chart, Maps, Visual 3- D Models  Match the following,	Build a functional understan ding of basic	Knowledge Based Discuss the functional understanding	age (%)
	AUGUS	remote sensing systems: platforms, sensors and radiation records  UNIT II	Electromagnetic radiation,	Quiz, Demonstration Maps, Flow Charts	remote sensing concepts and	of basic remote sensing concepts and applications.	
	T	Satellite Remote Sensing: platforms-LANDSAT, SPOT, NOAAAVHRR, RADARSAT, IRS, INSAT:	Electromagnetic radiation, Concept of remote sensing	Diagrams, Models, demonstration through Globe	applications.	Understanding Based Illustrate the	Knowle dge30
		principles and geometry of scanners and CCD arrays, orbital characteristics and data products- MSS, TM, LISS I & II, SPOTPLA & MLA, SLAR.	Satellites and importance. Earth's orbit, polar and sun-	Diagrams, Models. Maps, Diagrams, Models,	ate GIS technique s of processin	GIS techniques of processing remotely	Underst
	SEPTE MBER- OPTO BEER	UNIT III Image Processing: types of imagery, techniques of visual interpretation, ground verification, transfer of interpreted thematic information to base maps-	synchronous. supervised and unsupervised, classification	Demonstration Diagrams, Video clips.	remotely sensed data and understan	Higher Order Thinking Skills Based	anding-
F	RINCIPAL GIRLS' COI TONOMOU AJMER	microwave sensing: interpretation of SLAR imageries, elements of	maps-digital processing  wisual interpretation  pit. of Geography	PPT, Demonstration  PPT, Case Studies, Flipped Classroom	d data acquisitio n, storage and its synthesis.	Demonstrate orbital characteristics and data products.	Higher Order- 30



SOPHIA

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

### **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) COURSE PLAN Credit: 03

Duration: 21/2 hrs

1			COURSE PL	AN			
	SEM/	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning	Questions	Marks Distrib
	Month				Outcome		750000000000000000000000000000000000000
1		· · · · · · · · · · · · · · · · · · ·		<u> </u>	S	v 1.1. p 1	ution
1	SEM II	Definition and significance of Climatology; Composition	Concept of Climate	PPT, Chart, Maps,	Understan	Knowledge Based	
11	DEC	and structure of the atmosphere;	and Weather,	Visual 3- D Models	d the	Illustrate the	
1					meaning	composition and	, ,
1		Atmospheric Temperature: Vertical and Horizontal	State Conversions,	Match the following,	and	structure of	Knowle
		distribution of temperature;	Relationship	Quiz,	significan	atmosphere.	dge—55
			between	Demonstration	ce of	0 000 111	
			Temperature and		climatolo	<ol><li>Distinguish between</li></ol>	
	*		pressure		gy.	planetary and	
	3	Atmospheric pressure and Pressure belts; Winds:	Global Climatic	Maps, Flow Charts		periodic winds.	Underst
		Planetary, Periodic and Local winds; Hydrological cycle.	Zones			** 1	anding-
	JAN	UNIT II		Diagrams,	Explain	<u>Understanding</u>	30
		Air masses; Fronts: Concept, classification and properties;	Atmospheric	Models, demonstration	various	<u>Based</u>	
		Cyclones: Tropical and Temperate cyclones;	Circulations	through Globe.	climatic	1. Discuss the	
		Climatic classification of Koppen's and Thornwait's Role	Pressure	Diagrams,	phenomen	horizontal and vertical distribution	Uiahan
		of Climate in human life;	circulation,	Models, demonstration	on and	of temperature.	Higher Order-
ı			Western	through Globe.	deduce	or temperature.	15
1			Disturbances.		measures	2. Define cyclones and	13
		Atmospheric pollution and Global warming - general	Ozone depletion,	Maps, Diagrams,	to control	their types.	
		causes, consequences and measures of control.	Greenhouse gases.	Models,	global	then types.	
				Demonstration	warming.	Higher Order Thinking	l`
1	1000					Skills Based	
1	FEB	UNIT III	Plate movements,	PPT, Maps and	Define	1. Explain the origin	
	76.	Definition and significance of oceanography; Surface	Formation of	diagrams.	oceanogra	and development of	
1	MARCH	configuration of the ocean floor; Relief of Atlantic,	Trenches.		phy and	coral reefs.	
	0.	Pacific and Indian Oceans;			elaborate	cotal iccis.	O MH
4	rail	Distribution of Temperature; Salinity of oceans and seas;	Factors affecting	PPT, Demonstration	the	2./ Discuss the	Logue
PR	NCIPAL	Circulation of oceanic waters: Tides and Currents:	salinity, Fishing		significan 7	0 // /	8
G	RLS' COLL	EGE ents of the Atlantic, Pacific and Indian oceans,	Grounds.		Deptit. of	L'éography.	
JTI	NOMOUS	Marine deposits and coral reefs; Oceans as storehouse of	Great Barrier Reef,	PPT, Flipped St	place Girls	College, Aimer	
1	JMER	resources for the future.		Classroom.			1:



# SOPHIA GIRLS' COLLEGE, AJMER (Autonomous) B.A SEMESTER VI

EVNIRONMENTAL GEOGRAPHY - (PAPER II) (GEO-601) Min. Marks: 30(20 Ext;10 Int) Credit: 03

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

Duration: 21/2 hrs

SEM/	TINITE MONY C	COURSE P	LAN			
Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distrib ution
SEM T	UNIT I  Ecosystem: Concept, Types: Biotic and Non-Biotic, Structure and Function of an ecosystem:  Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems;  Energy flow in the ecosystem, Food chains, Food webs and Energy pyramids.	Biomes, Ecological succession.  Salinity, latitudinal division of continents.  Bio-accumulation and remediation.	PPT, Chart, Maps, Visual 3- D Models  Match the following, Quiz, Maps, Flow Charts	Classify the ecosystems and energy flow.	Knowledge Based  1. Define ecosystem and its functions.  2. Define biodiversity and its exploitation.  Understanding	Knowle
NAC	UNIT II  Biodiversity: Definition, Concept, In-situ and Ex-situ, Conservation; Environmental Pollution: Definition, Cause, Types:- Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Nuclear hazards and Control measures.	Biodiversity hotspots, succession and development of plants.  Sustainable Development Goals.  Sustainable Development Goals, Government policies.	Diagrams, Models, demonstration through Globe Diagrams, Models, demonstration through Globe Maps, Diagrams, Models, Demonstration	Prioritize the importance and the need to conserve biodiversity.	Based  1. Explain the types of environmental pollution.  2. Classify the different Environment protection Acts.  Higher Order Thinking	dge40 Underst
FEB- TO, MARCH	UNIT III  Environmental Ethics: Issues and possible solutions, Climate change,	International environmental agreements.	Demonstration through rock samples	Prioritize the importance environment al ethics.	Skills Based     Prioritize the importance environmental ethics.     Critically evaluate the nuclear hazards	35 Higher Order- 25
S. Year	global warming, acid rain, ozone layer depletion, huclear accidents; Environmental Protection Act,	Government policies, Agenda-21, Kyoto Protocol.	PPT, Demonstration	1 9	and their impacts	Baday
RINCIPAL GIRLS' CO TONOMOU	Issues involved in enforcement of environmental depolation, Public awareness.	Social-corporate responsibility.	PPT, Case Studies, Flipped Classroom	Sop	nia Girls Gollege, Ajmen	7



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

SEMESTER II

CLIMATOLOGY AND OCEANOGRAPHY

(GEOM-201)

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

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

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1			COURSE PLAN				
	SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
	SEM II DEC	Nature and Scope of Climatology; Composition and Structure of the atmosphere; Insolation; Heat Budget; Vertical and Horizontal distribution of temperature;	Concept of climate and weather.  Aphelion and perihelion, revolution chart.	PPT, Chart, Maps, Visual 3- D Models  Demonstration by models.	Distinguish the various climatic phenomenon s and explain their global	Knowledge Based Describe the structure and	
		Atmospheric pressure; Winds: Planetary, Periodic and Local winds.	Land and water distribution, rotation and revolution.	Maps, Flow Charts	to regional distribution.	n of the atmosphere	Knowledge
	JAN	UNIT II  Atmospheric moisture: Absolute and Relative  *Humidity; Types of Clouds and Precipitation;  Air Masses and Fronts: Concept, Classification and	Composition of the earth, layers of atmosphere. Global wind	Diagrams, Models, demonstration through Globe Diagrams,	Classify climatic regions of the world	Understand ing Based Compare	40
	. Anne	properties. Atmospheric Disturbances: Tropical and Temperate cyclones; Climatic classification of Koppen and Thornthwaite; Major climates of the World.	circulation.  Insolation, air temperature	Models, demonstration through Globe Maps, Diagrams, Models,	and observe dynamics of cyclones.	the tropical and temperate cyclones.	Understand
	FEB TO MARCH	UNIT III  Nature and scope of Oceanography; Major features of	Hypsometric curve,	Demonstration through rock samples	Sketch the major features of	<u>Higher</u> <u>Order</u>	ing-30
	10	Ocean Temperature and Distribution; Salinity; currents; Tides: Types and Theories (Progressive Wave Theory and Newton	Ocean bottom relief, gravitation and buoyancy.	PPT, Demonstration	ocean basins and critically evaluate the distribution	Thinking Skills Based Evaluate	Higher Order-30
IAI	GIRLS' C JTONOMO AJMER	Coral reefs: Types and Theories (Darwin, Daly and Sprray); Marine Resources; Law of the Sea.	Marine life, Ocean bottom religioptt Sophia G	PPT, Flipped of Geolgesphyn irls College, Aimer	of temperature and salinity in oceans.	the theories depicting presence of coral reefs.	Badau



M. A/M.Sc GEOGRAPHY

**SEMESTER II** 

PRACTICAL GEOGRAPHY: AIR PHOTO INTERPRETATION Max Marks: 100(70Ext; 30 Int)

(GEOM-205)

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

Credits: 06 **Duration: 05 hrs** 

	EM/	TINITE OF COMME	<u>C</u>	OURSE PLAN				
	lonth	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightag e	
	EM II	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, Maps, Flow Charts	To develop knowledge, skills and competency to use stereoscopes,	Knowledge Based Discuss the elements of photographic system.	(%)	
	SAN	Geometric fundamentals of photogrammetry: Elements of vertical photographs, relief displacement, image parallax, stereoscopic,	Concept of Orthophotographs.  Image Interpretation Elements  Stereoscopic Vision	Diagrams, Models, demonstration through Globe Diagrams, Models, demonstration through Globe Maps, Diagrams, Models, Demonstration	GPS for spatial mapping and referencing	Understanding Based Explain the Geometric fundamentals of photogrammetry	Knowledg e60	
ı	TO TO MARCH	ortho photos air photo interpretation: shape, size, pattern, tone, texture, shadows, and site;  SOPHIA GIRLS' COLLEGE	Image interpretation elements. Flight planning.	Demonstration through rock samples PPT, Demonstration PPT, Case Studies, Flipped Classroom	ml.	Higher Order Thinking Skills Based Summarize the importance of GPS Sureying.	Understan ding-30	
		SOPHIA GIRLS' COLLEGE (AUTONOMOUS) AJMER		Deptt. 0 Sophia Girl	Geography scollege, Ain	tet	Higher Order-10 gub	

### SOPHIA GIRLS' COLLEGE, AJMER (Autonomous) M. A/M.Sc GEOGRAPHY (Final) SEMESTER IV GEOGRAPHY OF SOUTH ASIA (GEOM-401) wax Marks: 100(70Ext; 30 Int) Min. Marks: 40(28 Ext;12 Int) Credit: 06 Duration: 03 hrs **COURSE PLAN** SEM/ UNIT/TOPIC Concepts/facts Teaching Learning Questions Marks Month Pedagogy Outcomes Weighta ge (%) SEM IV UNIT I Geographical Knowledge PPT, Chart, Develop Geographical Realm of South Asia, Homogeneity and DEC understanding of the Maps, Visual geographical Based Diversity, Study of Pakistan-Geographical and political understanding of study area. 3- D Models Discuss the units. Pakistan and geographical Knowled Climate and climatic regions, Vegetation, Agriculture, Tropical cyclones, Match the discuss understanding of ge-30 Livestock. flooding following, political relations Pakistan and Quiz, with South Asian discuss its Understa Mineral Resources, Power Resources, Industries, Trade, countries. political Resource potential. Maps, Flow nding-30 Population, Political relations. relations with Charts South Asian Higher UNIT II Order-40 Geographical countries. JAN Diagrams, Develop Study of Bangladesh -Geographical and political units, understanding of Models. geographical Climate and climatic regions, Understanding the study area. understanding of Vegetation, Agriculture, Livestock, Mineral Resources, Based Soils, Geology of Diagrams, Bangladesh and Elaborate the land Models, discuss its Power Resources, Industries, Trade, Population, Political Understanding of climatic aspects political relations Maps, of Bangladesh relations. resource potential. with South Asian Diagrams, and Nepal. Models, countries. FEB UNIT III Geographical PPT, Case Develop Higher Order TO Study of Nepal, Srilanka, Bhutan, Maldivesunderstanding of Studies, geographical Thinking Skills Geographical and political units, MAKCH the study area. understanding of Based Nepal, Sri Lanka, Illustrate the Climate and climatic regions, Vegetation, Agriculture, PPT, Temperate winds. Bhutan. and Geographical Livestock. Temperate Demonstratio Maldives and

COURSE\_PLAN\_2018-19\_MS\_SHILPI\_YADAV

PRINCIPAL

SOPHIA GIRLS' COLLEGE

(AUTONOMOUS).

AJMER

Mineral Resources, Power Resources, Industries, Trade,

Population, Political relations.

inversion

resource potential.

Understanding of

political

its

units of India

neighbours.

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and

their

MIN

RP(G) Case

Studies

discuss

countries.

Political relations

with South Asian



### M. A/M.Sc GEOGRAPHY (Final)

### SEMESTER IV

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

Mac Marks: 100(70Ext; 30 Int) Min. Marks: 40(28 Ext;12 Int)

### COURSE PLAN

	COURSE I LAIN					
SENI	UNIT/TOPIC	Concepts/fa	Teaching	Learnin	Questions	Marl
Month		cts	Pedagogy	g		Weig
				Outcom		age
1				es		(%
SEM IV	UNIT I	Elements of	PPT, Chart,	Demons	<b>Knowledge</b>	5
DEC	Spatial Science: Geography as a spatial science, maps and spatial information,	Geography	Maps,	trate	<u>Based</u>	
	dynamics of spatial information, elements of information technology, geographic objects		Visual 3- D	proficie	Discuss the	18
	and their relations-definition and development of GIS, computer environment for GIS.		Models	ncy in	elements of	
	Spatial Data: Elements of spatial data; data sources: primary and secondary, census and	GIS,	Match the	integrate	information	
	sample-data;	environment	following,	d	technology.	
		for GIS.	Quiz,	geograp		
	quality and error variations-raster and vector data structures data conversion-comparison	raster and	Maps, Flow	hical	<u>Understandi</u>	1 1
	of raster and vector databases-methods of spatial interpolation-	vector	Charts	knowled	ng	
		databases		ge using	<u>Based</u>	Kno
JAN:	UNIT II	Database	Diagrams,	geograp	Summarize	
	GIS data formats for the computer environment.	Management	Models,	hical	the Elements	
	Elements of GIS: Data capture-verification and preprocessing- manipulation,.	Systems	Globe	research	of spatial	dge-
	data storage and maintenance of databases-Database Management Systems: types and	neighbourho	Diagrams,	tools	data. So le	ash
	merits and demerits-data	od operations	Models,	includin	10-10-11 1132	
	analysis (integrated analysis of spatial and attribute data, overlay analysis,	GIS-Digital	Maps,	g	<u>Higher</u>	Und
	neighbourhood operations and connectivity functions) and spatial modeling-output	Elevation	Diagrams,	Spatial	Order PRINCI	PAL
17.38	format and generation	Models	Models,	Statistic	SOPHIA GIRLS	MOUL
FEB	UNIT III	Decision	Diagrams,	s,	Skil (AUTONO	
_70	GIS Technology: Coordinate system-basic principles of cartography and computer	Support	Models,	Cartogra	Illustrate AJMI	1,0
MARCH	assisted cartography for GIS-remote sensing data as a data source for GIS and	System		phy,	applications	1
16.1	integration of GIS and Remote Sensing-GPS and GIS: technology, data generation and			Remote	of GIS in	30
100	limitations-visualization in GIS-Digital Elevation Models (DEM and TINS).			Sensing,	Land	
Dr 1 car	GIS/Application: GIS as a Decision Support System-expert system for GIS-basic flow	GIS policy	PPT,	GIS and	Information	11:-1-
RINCIPAL	chart for GIS application-GIS standards,	application		GPS.	System.	High
GIRLS' COLL	zu		Den	of Geo	graphy	Orde
TONOMOUS)	legal system and national GIS policy application of GIS in Land Information System,	Elements of	PPT	Girls Coll	graphy ege, Aimer	
AUMER	Urban Management, Environmental Management and Emergency Response System.	GIS	Sopilia			2