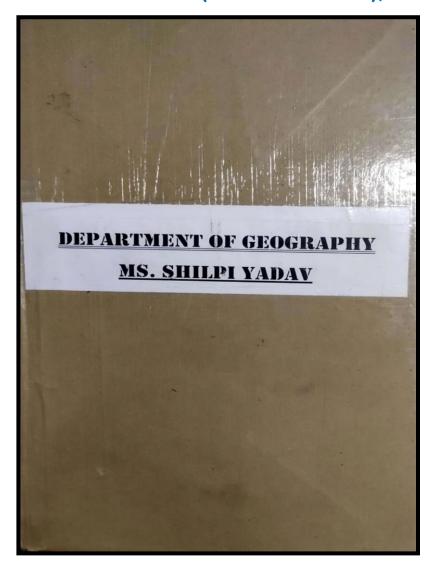


SOPHIA GIRLS' COLLEGE(AUTONOMOUS), AJMER



SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS) ESTER I PHYSICAL GEOGRAPHY–I (PAPER I) (GEO-101) B.A SEMESTER I

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

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

Credit: 03

SEM/ Month	UNIT/TOPIC	COURSE PLAN Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightag e (%)
SEM I JULY	Solar System; Geological Time Scale; Origin of the Earth: Kant, Chamberlin and James Jeans, Big Bang Theory; Earth's interior: Structure and zoning of the Earth's interior;	Ice age, Super Nova, Law of Floatation	PPT, Chart, Maps, Visual 3- D Models Quiz,	Identify the concepts of origin of earth and	Knowledge Based 1. What is Solar System? 2. Illustrate the	
, AMONO	Forces of the Earth: Endogenetic and Exogenetic; Folds and Faults.	Force of Buoyancy & Gravitation	Diagrams Maps, Flow Charts	landform.	different layers of Earth's Interior?	Knowled
AUGUS	Origin of Continents & Oceans: Wegner's Continental Drift Theory,	Climatic Zones, Layers of the earth, Force of Boyancy	Diagrams, Models, Globe	Illustrate the different	Understanding Based 1. Compare the	e60
E.	Theory of Plate tectonics, Sea-floor spreading; Theory of Isostacy;	Isostatic Balance, Himalayan Disturbances, Concept of Displacement, Law of Floatation	Diagrams, Models, demonstratio n through Globe	forces acting over the earth.	Continental Drift Theory and the concept of Plate Tectonics? 2. Classify the	Understa
	Volcanoes: types, distribution and related landforms; Earthquakes: occurrence, distribution.	Seismography	Maps, Diagrams, Models, Demonstratio	*	different landforms formed by the action of river? Higher Order	ding-30 Higher Order-10
SEPTE MBER- OCTO	UNIT III Rocks: Igneous, Sedimentary and Metamorphic;	Geological Structure, Fossils, Interior of the earth, Landforms	Demonstratio n through rock samples	Compare and analyze the	Thinking Skills Based 1. Justify the present distribution of	Order-10
BEAL	Denudation: Weathering and its types, Erosion and resulted landforms:	Exogenetic Forces of the earth, Agents erosion	PPT, Demonstratio	different cycles of landform	world continents and oceans on the basis of Harry	God
ELS' COLL MOUS) JMER	egeork of River, Glacier, Wind (arid and semi-arid), Waves and Karst, Davison Cycle of erosion.	Stages of development, World Physiography	PPT, Case Studies Flipped ep	argaion and	Hess's Plate hyrectonics Theory? Affitically evaluate the concepts of Sea Floor spreading?	1



B.A SEMESTER III

ECONOMIC GEOGRAPHY-I (PAPER I) (GEO-301) Marks: 30(20 Ext;10 Int) Credit: 03

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

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

		COURSE PLAN	Citain 05	Durano		
SEM/ Mont h	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distrib ution
SEM I JULY	UNIT I Introduction: Definition, Nature, Scope and recent trends of economic geography, its relation with allied subjects; Classification of economies, Sectors of economy-primary, secondary and tertiary;	Development in economic geography. Public sector, private sector, industrialisation.	PPT, Chart, Flow charts. Match the following, Quiz,	Analyze the impact of economic activities on environment.	Knowledge Based Explain the nature and scope of economic geography.	
	The impact of economic activities on environment.	Pollution, Sustainable management of resources.	Maps, Flow Charts		<u>Understanding</u> <u>Based</u>	Knowle
AUG UST	UNIT II Natural Resource Classification: Introduction to Renewable and Non-renewable resources;	Gift of nature, Concept of resources.	Diagrams, Models, Flow charts.		dge50	
	Conservation of resources; Changing nature of economic activities: forestry, agriculture and industrial activities;	Agro-forestry, Subsistence agriculture, truck farming.	Diagrams, Models,	resources and practice conservation with possible solutions.	economies.	Underst
v	Soil and major soil types.	Entisols, Inceptisols.	Maps, Diagrams, Models, PPT.		Higher Order Thinking Skills	anding-
SEPT FMB FAR-	UNIT III Agriculture: Land use and Locational theory by Von Thunen;	Land-use pattern, Locational Rent.	PPT, Case Studies, Flipped Classroom	the land use by		35 0
OCT OPRINCI A GIRLS	Principal crops- rice, wheat, sugarcane, cotton, tea, coffee PAH rubber; Agricultural regions of the world by Whittlesey; COLLEGE	Agricultural Typologies of the world	PPT,	Von Thunen and compare agricultural regions of the world Southia	Von Thunen's Agricultural Model e ography	Higher
ONOTUA MLA	MQUS) types and their products.	Agro-forestry, Community forestry.	PPT, Case Studies, Maps.	of the world Southia	The Concession	Order- 15

B.A SEMESTER III

PRACTICAL: INTERPRETATION OF TOPOGRAPHICAL MAPS

(GEO-303)

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

Min Marks: 20(16 Ext;4 Int)

Credits: 02

		COURSE PLAN	1			
SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightag e
		e .				(%)
SEMI JULY	Interpretation of Topographical Map. a. Primary Information (About Indexing, latitude and longitude explanations and administrative setup)	Basic mathematics, Tables, Conversion Units	Exercises with Use of Wooden Geometry Box,	Develop understandin g of the Topographica	Knowledge Based Practical File Work	Knowledg
			Demonstration	l landscapes in	<u>Understanding</u> Based	e30
AUGU	b. Arrangement and Identification of Toposheets of India; c. Conventional signs and symbols;	Topographical understanding, Landform distribution	Demonstration with 3 D Models, Tracing Table	to Survey of India Toposheets and asses	Lab exercises Draw a Plain Scale on R.F 1:50,000	Understan
	d. Methods of representing relief on map contours level colouring spot heights, benchmarks.			their regional differentiatio	<u>Higher Order</u>	ding-50
SEPTE MBER - OCTO	e. Identification of relief features on a map through contours —conical hill, plateau, ridge, v-shaped valley, escarpment, cliff, waterfall, types of slopes (uniform, undulating, convex and concave, gentle	topographical interpretation	Demonstration and Lab exercises with Video	n.	Thinking Skills Based Interpret and develop a	Higher Order-20
BER	and steep); Interpretation of Relief, Drainage, escalements, Land-use, Vegetation and Transport well-AL		Animations Depart. of C	eography ollege, Ajmei	Profile for the given region? Viva Voce	Goden
CAUTO	NCIPAL ON TOPOSHECES. PLS' COLLEGE NOMOUS) JMER		Sophia Chus	1-0-		F



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

SEM/ Mont h	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribu on
SEM I JULY	UNIT I Definition, Scope and Importance of Environment Geography; Elements of Environment: Physical and Cultural;	ecological niche, succession	PPT, Chart, Maps, Quiz, Demonstration.	Recall and relate the elements of	Knowledge Based 1. Distinguish the physical and	on.
	Approaches of Environmental Study: Determinism, Possibilism, Neo Determinism & Ecological; Relation between Man and Nature;	Early human activities.	Match the following, Quiz	environmen t which are impacting	cultural elements of environmental geography. 2. Elaborate man	Knowle
	Forest as a Resource: Use and over-exploitation, Deforestation, Forest policy of India.	Ecological certification.	Maps, Flow Charts	the climate and present surroundin gs.	and environment relationship. <u>Understanding</u> <u>Based</u> 3. Critically evaluate	e—40
AUS VST	UNIT II Water as a Resource: Surface and Ground water, Its use and over-utilization;	Scarcity of water, pollution.	Diagrams, Models, charts.	Prioritize the need and	the conservation of water as a resource. 4. Classify the	ding-35
	Disasters related: Floods, Drought, Dams- Benefits and problems, Case study of Kariba dam (Zimbabwe) and Tehri dam (India);	Concrete dams, gravity dams, flash floods, soil erosion.	PPT, Case Studies, Flipped Classroom	importance of conserve resources.	different kinds of disasters related to water. Higher Order	Higher Order-2:
	Mineral as a Resource: Use and exploitation, environmental effects of extracting and using mineral resources.	Ores, drilling, open shaft drilling.	Maps, Diagrams, Models.		Thinking Skills Based 5. Justify the present scenario of	
SEPT	UNIT III	Energy needs,	Diagrams,	Prioritize	growing energy needs.	
	Energy as a Resource: Growing energy needs; Renewable and Non Renewable energy sources, Use of alternate energy sources;	sustainability, concept	Models,	the	needs.	
OCT	Non Renewable energy sources, Ose of attendate energy sources,	of clean energy.	demonstration through Globe	importance and the	6. Critically evaluate	
OBER	and as a Resource: Land degradation, Soil erosion and	Water logging,	PPT,	need to	the concepts of Desertification.	
N. Tear	Descrification, Conservation of conventional energy resources;	salinization, Concept of	Demonstration	conserve	Descrincation.	0 2
PRINCIPA	AL	3 R's.	through flow	Land		and ad
A GIRLS'	COLLEGE	Paulina and J. Di.	charts,	resource.	1/0	T
	OUS)elopment of non-conventional energy resources according to five year plans in India.	Environmental Planning in India, SDG.	PPT, Case Studies.	Pophla Gir	f Geography	

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)

Credit: 06

CO	URSE	PLAN

		COURSE PLAN												
SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)								
SEMI	UNIT I Population Geography: Nature, Scope and Objectives;	Demography, Factors affecting.	PPT, Chart, Maps.	demography and	Knowledge Based Summarize the									
8	Approaches;	Demography, Factors affecting.	PPT, Quiz.		development of									
	Modern theories: Malthusian Theory, Optimum Theory and Demographic Transition Theory.	Concept of Sustainable development	Flow Charts, Diagrams.	pop and a	demography and elaborate the concept of	Knowledge40								
AUGUS T	UNIT II Population Dynamics: Fertility, Mortality, Age, Sex, Family & Households, Literacy, Education, Religion, Caste and Tribes, Rural & Urban.	Age pyramids, Factors affecting, Qualitative aspects of population.	Diagrams, Models, demonstration through Globe	Measure and discuss the population dynamics of the world. Measure and population. Understandin g Based Examine the	population. Understandin g Based Examine the population	<u>Understandin</u> g <u>Based</u>	population. <u>Understandin</u> g <u>Based</u>	<u>Understandin</u> g <u>Based</u>	<u>Understandin</u> g <u>Based</u>	population. <u>Understandin</u> g <u>Based</u>	population. <u>Understandin</u> g <u>Based</u>	population. <u>Understandin</u> g <u>Based</u> Examine the	population. Understandin g Based Examine the	Understanding-30 Higher Order-30
	Urbanization, Occupational Structure, Gender Issues (with special reference to India);	Urban Sprawl, Slum development.	Diagrams, Models,		population dynamics of the world.									
	Migration: Types, Causes, Consequences and related theories.	Push and Pull Factors	Maps, Diagrams, Models, Demonstration		Higher Order Thinking Skills Based Evaluate the									
SEPTE MBER-	UNIT III World Population Distribution;	Regional disparity	Demonstration through rock samples	Critically evaluate the population as a	theories of migration.	~ ~ ~~!								
PCTOB LER AL	Ackerman's Population Resource Regions; Critical appraisal of Population Policies of India;	Government initiatives and need of regional planning.	PPT, Demonstration	population policies.	m	Bodall								
COLLEGE NOUS) R	Human Development Index: Indicators and Measurements.	Social welfare and well-being, Happiness Index.	PPT, Case Studies, Flipped Classroom	Sophia Girls	Goography College, Ain	lei (

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

M. A/M.Sc GEOGRAPHY (Fills SOCIAL GEOGRAPHY (a) SEMESTER III (GEOM-304) Credits: 06

Max Marks: 100(70Ext; 30 Int)

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

Nature and development of social geography; Philosophical bases of social geography-Positivists, structuralist, radical, humanist, post-modern and post structuralist; social geography in the realm of social sciences. Space and society: Understanding society and its structure and process. UNIT II Social differentiation and region formation; bases of social region formation; role of race, caste, ethnicity; religion and languages;	Society and social structure. Social transformation Society and social structure. Society and space	Maps, Visual 3- D Models Match the following, Quiz, Maps, Flow Charts Diagrams,	Discuss the knowledge of formation of societies and social consciousnes s.	Knowledge Based Discuss the measurement of human development with social, economic and environmental	Know
Nature and development of social geography; Philosophical bases of social geography-Positivists, structuralist, radical, humanist, post-modern and post structuralist; social geography in the realm of social sciences. Space and society: Understanding society and its structure and process. UNIT II Social differentiation and region formation; bases of social region	social structure. Social transformatio n Society and social structure. Society and	Maps, Visual 3- D Models Match the following, Quiz, Maps, Flow Charts Diagrams,	knowledge of formation of societies and social consciousnes s.	Based Discuss the measurement of human development with social, economic and environmental	Knov
radical, humanist, post-modern and post structuralist; social geography in the realm of social sciences. Space and society: Understanding society and its structure and process. UNIT II Social differentiation and region formation; bases of social region	transformatio n Society and social structure. Society and	following, Quiz, Maps, Flow Charts Diagrams,	and social consciousnes s.	human development with social, economic and environmental	Knov
process. UNIT II Social differentiation and region formation; bases of social region	social structure. Society and	Charts Diagrams,		environmental	· · · · ·
Social differentiation and region formation; bases of social region			Evalain the		
	opare	Models,	formation of regions with	indicators. \\ Understanding	e30
Indian unity and diversity; social transformation and change in India. Social well-being: Concepts of social well-being, physical	Social well- being, Holistic development	Globe.	respect to various social	Based Explain the concepts of social well-	Unde
Human development; measurement of human development with	нні, інн	Maps, Diagrams,	parameters.	being, physical quality of life,	ding-
UNIT III Rural urban deprivation in India with respect to health care; education and shelter;	rural and urban societies.	Maps, Flow Charts	public policies and	Higher Order Thinking Skills	High Orde
deprivation and discrimination issues relating to women and under privileged groups. Patterns and bases of rural and urban society;		Demonstration	social	Speculate Social and	Orde
Plans and area plans towards social policy in India; Strategies to improve social well-being in tribal, hill, drought and flood prone		Studies, Flipped	system in	environmental impact assessment of	20
areas; Social and environmental impact assessment of development projects.		Deptt. G	of Geography Is College, Aji	development	20
	Human development; measurement of human development with social, economic and environmental indicators. UNIT III Rural urban deprivation in India with respect to health care; education and shelter; deprivation and discrimination issues relating to women and under privileged groups, Patterns and bases of rural and urban society; Public policy and social planning in India: review of Five year Plans and area plans towards social policy in India; Strategies to improve social well-being in tribal, hill, drought and flood prone	quality of life, Human development; measurement of human development with social, economic and environmental indicators. UNIT III Rural urban deprivation in India with respect to health care; education and shelter; deprivation and discrimination issues relating to women and under privileged groups, Patterns and bases of rural and urban societies. Public policy and social planning in India: review of Five year Plans and area plans towards social policy in India; Strategies to improve social well-being in tribal, hill, drought and flood prone areas; Social and environmental impact assessment of development projects. development HHI, HDI rural and urban societies. Five year planning in India India	quality of life, Human development; measurement of human development with social, economic and environmental indicators. UNIT III Rural urban deprivation in India with respect to health care; education and shelter; deprivation and discrimination issues relating to women and under privileged groups, Patterns and bases of rural and urban societies. Public policy and social planning in India: review of Five year Plans and area plans towards social policy in India; Strategies to improve social well-being in tribal, hill, drought and flood prone areas; Social and environmental impact assessment of development projects. Globe. HHI, HDI Maps, Diagrams, Charts PPT, Demonstration Five year planning in India Classroom Deptt. Good of the policy o	quality of life, Human development; measurement of human development with social, economic and environmental indicators. UNIT III Rural urban deprivation in India with respect to health care; deprivation and discrimination issues relating to women and under privileged groups, Patterns and bases of rural and urban society; Public policy and social planning in India: review of Five year Plans and area plans towards social policy in India; Strategies to improve social well-being in tribal, hill, drought and flood prone areas; Social and environmental impact assessment of development projects. development Globe. Maps, Flow Patterns and Maps, Flow Charts Public Publi	quality of life, Human development; measurement of human development with social, economic and environmental indicators. UNIT III Rural urban deprivation in India with respect to health care; education and shelter; deprivation and discrimination issues relating to women and under privileged groups, Patterns and bases of rural and urban society; Public policy and social planning in India: review of Five year Plans and area plans towards social policy in India; Strategies to improve social well-being in tribal, hill, drought and flood prone areas; Social and environmental impact assessment of development projects. development Globe. Maps, Flow Charts Diagrams, rural and Waps, Flow Charts Public policies and evaluate social public policies and evaluate social planning in India: review of Five year planning in India PPT, Demonstration PPT, Demonstration PPT, Case Planning Studies, Flipped Classroom India Classroom Deptt. of Geography Deptt. of Geography Thicking Skills Based Speculate Public policies and evaluate social planning system in India Environmental impact assessment of development projects.

SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS) **B.A SEMESTER II**

PHYSICAL GEOGRAPHY -II PAPER I (GEO-201) (Climatology and Oceanography) 5 (50Ext; 25 Int) Min. Marks: 30 (20 Ext; 10 Int) Credit: 03 Max. Marks: 75 (50Ext; 25 Int) Min. Marks: 30 (20 Ext;10 Int) Duration: 2 1/2 hrs

	CENT	Y IN THE MICHAEL	COURSE PLAN	,			
	SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching	Learning	Questions	Marks
	Month			`Pedagogy	Outcomes		Distribu tion
	SEM II . DEC	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	Knowledge Based 1. Illustrate the composition and	
		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	and significanc e of climatology	structure of atmosphere. 2. Distinguish between planetary	d.
		Winds: Planetary, Periodic and Local winds; Hydrological cycle	Global Climatic Zones	Maps, Flow Charts		and periodic winds.	Knowled
	JAN	UNIT II Air masses; Fronts: Concept, classification and properties;	Atmospheric Circulations	Diagrams, Models, Globe.	Explain various climatic	Understanding Based 1. Discuss the horizontal and	ge55
		Cyclones: Tropical and Temperate cyclones;	Pressure circulation, Western Disturbances.	Diagrams, Models, demonstration through Globe.	n and deduce measures to control	vertical distribution of temperature. 2. Define cyclones	Understa
		Climatic classification of Koppen and Thornwait; Atmospheric pollution; Global warming	Ozone depletion, Greenhouse gases.	Maps, Diagrams, Models	global warming.	and their types. Higher Order	nding-30
Si	FEB. TO MARCH	: UNIT III Definition and significance of Oceanography; Ocean Bottom Relief: Atlantic, Pacific and Indian Ocean;	Plate movements, Formation of Trenches.	PPT, Maps and diagrams.	Define oceanograp hy and elaborate the	Thinking Skills Based 1. Explain the origin and development of coral reefs.	Higher Order-15
SCPHIA (AU	RINCIPAL GIRLS' COL ONOMOUS	Distribution of Temperature and Salinity; LEGE culation of oceanic waters- Tides: Concept and htypes; Currents: Atlantic, Pacific and Indian ocean;	Factors affecting salinity, Fishing Grounds. Great Barrier Reef,	PPT, Demonstration		Discuss the Geographytance ocean colleguirelinet	Godan
	AJMER	Coral Reefs: Types, Darwin's Subsidence Theory.	Cheat Daillei Reel,	Classroom.	Malatan man		X

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

ECONOMIC GEOGRAPHY-II (PAPER I) (GEO-401)

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

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

Credit: 03

			COURSE PLAN				
	SEM/	UNIT/TOPIC	Concepts/facts	Teaching	Learning	Questions	Marks
	Month		= 20 E	Pedagogy	Outcomes		Distribu
	1						tion
	SEM IV	UNIT I	Illegal mining,	PPT, Chart,	Categorize	Knowledge Based	1
	DEC.	Minerals: Ferrous and Non-Ferrous - major distribution	geological	Maps, Rock	ferrous and	1. Explain the	1
		and production (Iron ore, Manganese, Aluminum,	structure, rocks	Samples.	non-ferrous	distribution of	
		Bauxite, Copper, Mica and Gold);	types, Alloys.		minerals and	Iron in the	Knowled
		Power Resources: Coal, Petroleum, Natural Gas,	metamorphism,	Match the	identify their	world.	
		Atomic Energy,	continental shelf,	following,	distribution on	2. Discuss the	
	Q.		sustainable	Quiz,	a world map.	distribution of	ge50
			utilization.	Demonstration		power	
1	,	Solar, Tidal, Wind and Hydroelectricity.	Availability of	Maps, Flow		resources.	l
1			Resources,	Charts		l	Understa
	JAN	UNIT II	Industrialisation,	Diagrams,	Relate factors	Understanding	
		Industries: Factors affecting localization, Classification	Localisation	Models, Globe	affecting	<u>Basea</u>	
	100.5	on the basis of raw material, size and ownership;	factors.	, 0,000	localization of	Discuss the	nding-35
		Major industries of the world- Iron and steel, Textile-	International trade	Diagrams,	industries and	relevance of non-	1
		Cotton And Woolen,	- Import and	Models, Globe	discuss the	conventional	
			export,		major	resources.	Higher
		Chemicals, Cement, Paper, Ship Buildings.	Metamorphism,	Maps,	industries of	77:1 0 1	Order-15
			Agro-forestry.	Diagrams,	the world.	Higher Oraer	
1	: FEB	UNIT III	Silk Route, Inland	Diagrams,	Identify the	<u>Thinking Skills</u> <u>Based</u>	
	TO	Transport: Factors affecting, Major water, land and air	waterways, SEZ.	Models, Globe	influence of		
	MARCH	transport;			geographical	1. Discuss the factors	1
	(B. 11)	Trade: Major importing and exporting countries;	Intra and inter	PPT,	factors in the	affecting trade	The same of the sa
V	1 8 .0	FIRE CONTRACTOR OF THE PROPERTY OF THE PROPERT	countries trade.	Demonstration	development	in India.	Baday
1	4. Pearl	Major Trade organizations: EU, EFTA, WTO, ASEAN,	Block	PPT, Case	of trade and	2. Explain the	Radou
	PRINCIPA		integrations, Free trade Zones.	Studies, Flipped	transport	factors	9
	A GIRI OF C		trade Zones.	Dep	of Geography	localisation of	- /
2	/ Junior			Sopala/c		eck/Inmervious,	and the same



B.A III (SEMESTER VI)

REGIONAL GEOGRAPHY OF THE WORLD:

(Egypt, China and Australia)

(PAPER II) (GEO-602)

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

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

Credit: 03

SEM/ Mont h	UNIT/TOPIC	COURSE PLAN Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distributi on
SEM VI Dec	UNIT I Egypt: Physiography, Drainage-Nile Valley, Climate, Natural Vegetation, Agriculture, Irrigation projects,	Geology, Deserts, Drylands, Nile river basin.	PPT, Chart, Maps, quiz and maps.	Develop geographical understanding	Knowledge Based 1. Illustrate the physiographic	
	Minerals, Power resources, Industries, Spatial distribution of Population,	Concept of resources, Extraction of resources.	Match the following, Quiz, Demonstration	of Egypt and analyze its economic development.	analyze its economic development. 2. Discuss the minerals distribution of China and Australia. Understanding	Knowledg
	Economic development and Impact of Descriification.	Suez canal,	Maps, Flow Charts			Understan
JAN	UNIT II China: Physiography, Drainage, Climate, Natural Vegetation,	Siberian winds, formation of mountain ranges and Tibet plateau.	Diagrams, Models, Globe	Develop geographical understanding	Based 1. Illustrate the climate of China.	ding-35
	Minerals, Power resources, Industrial Region,	Spatial distribution of eastern and western China, Silk Route.	Diagrams, Models, Globe	of China and analyze its economic	Discuss the population distribution of	Higher
	Spatial distribution of Population and its economic development.		Maps, Diagrams, Models.	development.	Higher Order Thinking Skills Based Compare the	Order-25
PRING HIA GIRI	UNIT III Australia: Physiography, Drainage, Climate, Natural Vegetation,	Great Barrier Reef, Mediterranean climate,	PPT, Flipped Classroom	Develop geographical understanding		A
	Date-farming, Power resources, Industries,	Agriculture, International Trade.	Demonstration through rock samples	of Australia and analyza its		adal adal
	or Spain distribution of Population and Economic development.	Aborigines, White policy.	PPT, Case Studies, Flipped Classroom	delDegitheAl Co Sophia Girls	cogrammed of cogrammed and cog	74

M. A/M.Sc GEOGRAPHY

SEMESTER II

CLIMATOLOGY AND OCEANOGRAPHY

(GEOM-201) Credit: 06

Max Marks: 100(70Ext; 30 Int)

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

		COURSE				
SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM II	UNIT I 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	PPT, Chart, Maps, Visual 3- D Models Demonstration by models.	Distinguish the various climatic phenomenons and explain their global to regional	Knowledge Based Describe the structure and composition of	
	Atmospheric pressure; Winds: Planetary, Periodic and Local winds.	chart. Land and water distribution, rotation and revolution.	Maps, Flow Charts	distribution.	the atmosphere. <u>Understanding</u> <u>Based</u>	
. JANE	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	Compare the tropical and temperate cyclones.	Knowledge
	Air Masses and Fronts: Concept, Classification and properties. Atmospheric Disturbances: Tropical and Temperate cyclones;	Global wind circulation.	Diagrams, Models, demonstration through Globe	cyclones.	Higher Order Thinking Skills Based	Understand
	Climatic classification of Koppen and Thornthwaite; Major climates of the World.	Insolation, air masses, temperature and pressure.	Maps, Diagrams, Models, Demonstration		Evaluate the theories depicting presence of	ing-30
FEB TO MARCH	VNIT III Nature and scope of Oceanography; Major features of ocean basins;	Hypsometric curve,	Globe, Diagrams, PPT.	Sketch the major features of ocean basins and	presence of coral reefs.	Higher
RINCIPAL RINCIPAL S'COL	Ocean Temperature and Distribution; Salinity; currents; Tides: Types and	Ocean bottom relief, gravitation and buoyancy.	PPT, Demonstration	critically evaluate the distribution of temperature and salinity in occasion	of Geography	Gadale
UNION U	Theories (Progressive Wave Theory and Newton (Equilibrium Theory); Coral reefs: Types and Theories (Darwin, Daly and Murray); Marine Resources; Law of the Sea.	Marine organisms, Ocean bottom relief.	PPT,, Flipped Classroom	Sophia		

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

M. A/M.Sc GEOGRAPHY

DIGITAL CARTOGRAPHY, AERIAL PHOTOGRAPHY AND GPS Max Marks: 100(70Ext; 30 Int)

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

Credits: 06

(GEOM-204)

SEM/	UNIT/TOPIC COURSE PLAN	1				
Month SEM 1		Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Mark Weigh age (%)
DEC	Introduction to cartography; Nature and scope of cartography; Basic concept of map; Direction and its principles; Elements of digital cartography; principle of digital cartography; Purpose and Classification of map- according to scale, according to amount of topographic details, according to purpose, according to style of construction (Qualitative and Quantitative);	Understanding of a map. Map coordinate system, Topographic maps.	PPT, Chart, Maps, Visual 3- D Models Match the following, Quiz, Demonstration	Identify the components on an aerial photography and distinguish the elements	Knowledge Based Discuss the principles and elements of Digital Cartography.	Knowl
	Map Layout, Map Symbols, Use of colors and pattern, Lettering, Generalization of map, Compilation of map; Data models for digital cartographic information, Concepts of cartographic database; Qualitative mapping techniques: Choroschematic and Chorochromatic; Quantitative mapping techniques: Choropleth and Isopleth.	Data models for digital cartographic information	Maps, Flow Charts	of photo interpretatio n.	Understanding Based Exemplify the	Under
JAN	Aerial photography: Definition, Scope, Advantages and Limitation; Specifications of aerial photographs (Vertical and Oblique);	Map generalisation, mosaicking	Diagrams, Models.	Become familiar with the history, film type,	functional segments of GPS.	anding
	Flight planning, Aerial cameras types and their characteristics, Including digital mapping camera, Types and geometry of aerial photographs;	Map generalisation, mosaicking	Diagrams, Models, demonstration through Globe	and angles of aerial photography distortions	Higher Order Thinking Skills Based Compare the	30 Highe
	Aerial photography, Season and time, Photo Index, Scale of aerial photographs and its determination, Comparison of aerial photographs and Map.	Stereographic vision,	Maps, Diagrams,	and displacement	limitations and advantages of Arial	Order- 30
MARCH	UNIT III Introduction to Global Position System (GPS) - Fundamental concepts of GPS; History of GPS development and GPS satellite system;	Coordinate system, Locational understanding.	Maps, Diagrams, Models, Demonstration	Use photogramm etric techniques	Photographs.	
Sr·Ke	Functional segments of GPS, GPS satellite constellation, GPS positioning type, GPS receivers and codes, antenna, GPS accuracy, Error correction, GPS measuring techniques, signals structure and cotta,	Map coordinate system, Topographic maps.	PPT, Demonstration	to calculate: distance, area and object height	ns	Bros
IA GIRL	Sactors at Special Special Concepts - IRNSS, NAVSTAR, GLONASS, GALILEO, MTSAT, DMOUS) GAGAN, Mobile mapping, Applications of GPS.	Understanding satellite signals, Space Programs.	PPT, Case Studies, Flipped Classroom	from eggialit. photographs. Sophia Cir	of Geography is College, Air	net



M. A/M.Sc GEOGRAPHY (Final)

SEMESTER IV

QUANTITATIVE TECHNIQUES IN GEOGRAPHY (a)

(GEOM-403)

Max Marks: 100(70Ext; 30 Int)

Min. Marks: 40(28 Ext;12 Int) Credits: 06

Max Marks: 100(70Ext; 30 Int)

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

07751		OURSE PLAN	m 1:	Y	0	Marks
SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Weightage (%)
SEM IV	UNIT I Statistics – Meaning and Objective; Sampling techniques;	Data understanding and analysis.	PPT, Chart, Maps, Visual 3- D Models	SOPHIA GIF	Based Understand	
	Central Tendencies – Mean, Median, Mode. Measures of Dispersion – Range, Quartile deviation,	Central Tendencies	Quiz, Demonstration		the importance of	
	Standard deviation; Its uses and computation.	Understanding variability.	Maps, Flow Charts			Knowled
JAN	Types of Statistics – Parametric & Non-Parametric, descriptive and inferential statistics;	Parametric & Non- Parametric	Diagrams, Models, demonstration		e30	
	scales of measurement: Nominal, Ordinal, Interval Ratio:	scales of measurement	Diagrams, Models		Pendersta	
	Correlation: Meaning, rank, Spearman; Regression Analysis.	Understanding of Correlation	Maps, Diagrams, Models.		NCIPAL RLS', COLL NOMOUS)	
FEB 10 - MARCH	UNIT III Hypòthesis testing, Level of significance;	Understanding of statistical methods.	Demonstration through rock samples	Formulate hypothesis and measure	Order Thinking Skills Based	Higher Order-40
Pearl	Chi-square test: Meaning & Computation; t-test; z-test; Analysis of Variance (ANOVA);	Understanding of statistical methods.	PPT, Demonstration	the level of significance.	Formulate hypothesis	Good
NCIPAL RLS' COLLI NOMOUS)	Factor analysis and Principal Component Analysis.	Understanding of statistical methods.	PPT, Case Studies, Filipped Classroom Girl	Geography College, Aim	and measure the level of Significance.	9