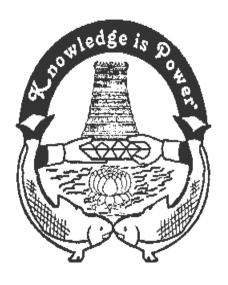
## SRI MEENAKSHI GOVT ARTS COLLEGE FOR WOMEN (AUTONOMOUS) MADURAI – 625 002.

(Re-Accredited with "A" Grade by NAAC 3<sup>rd</sup> cycle)



# DEPARTMENT OF GEOGRAPHY SYLLABUS FOR B.Sc GEOGRAPHY

CHOICE BASED CREDIT SYSTEM
2022-2023

**DEPARTMENT OF GEOGRAPHY 2022-2023** 

SRI MEENAKSHI GOVERNMENT ARTS COLLEGE FOR WOMEN (A), MADURAI-2.

DEPARTMENT OF GEOGRAPHY

INTRODUCTION

The Department of Geography was established in the year 1968 with UGC 3Guest Lecturers 1

Lab Assistant and 283 UG and 35 PG students among its various academic ventures. It produce so many

scholars and create more professionals in various fields. It is one of the centers for Tamil Nadu Open

University for B.Sc., Geography Course. The department specializes in Geographical structure in relation

to Geomorphology, Bio Geography, Advanced Cartography, Remote Sensing, Geo - Statistical

Techniques and Morphogenetic Regions. The department regularly conducts conference and seminars as

well as interdisciplinary seminars in collaboration with other departments and association meetings.

**COURSE OFFERED** 

UG COURSE: B.Sc., Geography - Both Tamil Medium & English Medium

VISION OF THE DEPARTMENT

Geographers study the Earth's features but with a strong appreciation for the human

environment relations that shape and are shaped by the distributions of these features across the

landscape.

MISSION OF DEPARTMENT OF GEOGRAPHY

• To provide students with knowledge about the Earth's natural environment and its

relationship to society.

To provide students with knowledge about the World's people, nations, cultural

environments and spatial organization.

To provide students with a good grounding in the modern technical skills of the discipline,

including computer cartography, spatial analysis, spatially oriented quantitative methods and

techniques and Geographic Information System.

To instill within each student an appreciation for the great variety of cultural forms and ways

of thinking throughout the world and to help students formulate a World view that uses this

appreciation to become responsible citizens in India

2

#### PROGRAMME OUTCOME OF B.SC GEOGRAPHY

At the end of the degree programme the students will be able to:

- **PO1:** Inculcate a sustained interest to learn new concepts, techniques and acquire discipline based knowledge
- **PO2:** Relate their knowledge to design problem solving strategies addressing the demands in the society
- **P03:** Involve themselves in capacity building and hone their skills for technical, conceptual and creative excellence
- **PO4:** Perceive a plan to take up Post Graduate programmes leading to research within and outside their disciplines
- **P05:** Contribute to the ecological space and be sensitive to the multi-dimensional aspects of our country and strive for harmonious existence through environment –friendly academic involvement

#### PROGRAMME SPECIFIC OUTCOME

- **PSO1**: Understand the relationship of man and environment
- **PSO2**: Acquiring knowledge of physical and human geography
- **PSO3**: Analysis the problems of physical and cultural environment
- **PSO4**: Utilize and apply the skill in securing employment
- **PSO5**: Application of GIS and modern geographical map making techniques
- **PSO6**: Development of observation and interaction power
- **PSO7**: Development of communication skill and lifelong learning

### SRI MEENAKSHI GOVT.ARTS COLLEGE FOR WOMEN (AUTONOMOUS), MADURAI-2

#### DEPARTMENT OF GEOGRAPHY

PROGRAMME: B.Sc. GEOGRAPHY

#### U.G. CBCS - SEMESTER WISE PAPER LIST

(For Those Who Are Joined From July 2022 Onwards)

#### SEMESTER-I

Part	Course Type	CODE	Title of the Course	Hrs/	Credits	Exam Hrs		Marks	5
				Week		1113	Int	Ext	Total
Ι	LC	U221A1/ U221H1	Tamil/Hindi	6	3	3	25	75	100
II	ELC	U222A1	English	6	3	3	25	75	100
III	CC-I	U22CG1	Core I - GEOMORPHOLOGY	6	5	3	25	75	100
III	CC-II	U22CG2P	Core II Practical 1– REPRESENTATION OF MAP SCALES AND RELIEF.	3	3	3	40	60	100
III	AC-I	U22ABGT 1	First Allied Paper I (T) - Botany	4	3	3	25	75	100
III	AC–II	U22ABGP	First Allied Practical - Botany	3					
IV	AEC	U22AE1	Value Education	2	2	3	25	75	100
			Total	30	19				600

#### SEMESTER-II

Part	Course Type	CODE	Title of the Course	Hrs/	Hrs			Marks	3
				Week			Int	Ext	Total
Ι	LC	U221A2/ U221H2	Tamil/Hindi	6	3	3	25	75	100
II	ELC	U222A2	English	6	3	3	25	75	100
III	CC-III	U22CG3	Core III - CLIMATOLOGY	6	5	3	25	75	100
III	CC-IV	U22CG4P	Core IV Practical II– REPRESENTATION OF CLIMATIC DATA AND WEATHER MAP INTREPRETATION	3	3	3	40	60	100
III	AC-II	U22ABGP	First Allied Practical- Botany	3	3	3	40	60	100
III	AC-III	U22ABGT2	First Allied Paper II (T)- Botany	4	4	3	25	75	100
IV	AEC	U22AE2	Environmental Studies	2	2	3	25	75	100
			Total	30	23				700

#### SEMESTER-III

Part	Course	CODE	Title of the Course	Hrs/	Credits	Exam		Marks	3
	Туре	CODE		Week		Hrs	Int	Ext	Total
Ι	LC	U221A3/ U221H3	Tamil/Hindi	6	3	3	25	75	100
II	ELC	U222A4	English	6	3	3	25	75	100
III	CCV	U22CG5	Core V - OCEANOGRAPHY	6	4	3	25	75	100
III	CCVI	U22CG6P	Core VI Practical III– MAP PROJECTION	3	3	3	40	60	100
III	AC–IV	U22AEG1	Second Allied Paper1(T) – Statistics – I ( Economics)	6	4	3	25	75	100
III	AC-V	U22AGGP	Allied Practical – Statistical Diagrams and Maps	1					
IV	NMEC-I	U22NMG1	NMEI – Fundamentals of Physical Geography	2	2	3	25	75	100
IV			Extension Activity		1		100	-	100
	Total	1	ı	30	20				700

#### SEMESTER-IV

Part	Course	CODE	Title of the Course	Hrs/	Credits	Exam		Marks	1
	Туре	CODE		Week		Hrs	Int	Ext	Total
I	LC	U221A4/ U221H4	Tamil/Hindi	6	3	3	25	75	100
II	ELC	U222A4	English	6	3	3	25	75	100
III	CC-VII	U22CG7	Core VII – CARTOGRAPHY	4	4	3	25	75	100
III	CC- VIII	U22C G8P	Core VIII – Practical IV- SURVEYING	3	3	3	40	60	100
III	AC-V	U22AGGP	Allied Practical Statistical Maps and Diagrams	1	2	3	40	60	100
III	AC-VI	U22AEG2	Second Allied Paper II(T) Statistics – II (Economics)	6	4	3	25	75	100
IV	NMEC-II	U22NMG 2	NME II – Social - Cultural Geography	2	2	3	25	75	100
IV	SEC-I	U22S3EG1	Skill Enhancement Course- 1 Theory – POPULATION DATA ANALYSIS	2	2	2	25	75	100
		Total		30	23				800

#### DEPARTMENT OF GEOGRAPHY 2022-2023

#### SEMESTER-V

Part	Course	CODE	Title of the Course	Hrs/	Credits	Exam		Marl	KS
	Туре	CODE		Week		Hrs	Int	Ext	Т
III	CC-IX	U22CG9	Core IX – WORLD REGIONAL GEOGRAPHY	5	5	3	25	75	
III	CC-X	U22CG10	Core X – GEOGRAPHY OF INDIA	5	5	3	25	75	
III	CC-XI	U22CG11	Core XI– HUMAN GEOGRAPHY	5	5	3	25	75	
III	CC–XII	U22CG12P	Core XII - Practical V - THEMATIC DATA ANALYSIS AND MAP INTREPRETATION	6	5	3	40	60	
III	DSEC	U22DSG1A/ U22DSG1B	DISCIPLINE SPECIFIC ELECTIVE COURSE 1- GEOGRAPHY OF RESOURCES / AGRICULTURAL GEOGRAPHY	5	5	3	25	75	
IV	SEC-II	U22SEG2	Skill Enhancement Course -II Theory – PRINCIPLES OF GIS & GNSS	2	2	-	25	75	1
IV	SEC - III		Skill Enhancement Course III Practical –FIELD SURVEY AND MAPPING ANAYSIS	2	2	2	40	60	100
	Tota	<u>l</u>		30	29				

#### SEMESTER-VI

Part	Course		Title of the Course	Hrs/	Credit	Exam		Mark	KS
	Type	CODE	DDE		S	Hrs	Int	Ext	Total
III	CC-XIII	U22CG13	Core XIII – GEOGRAPHY OF SETTLEMENTS	6	5	3	25	75	100
III	CC-XIV	U22CG14	Core XIV – PRINCIPLES OF REMOTE SENSING	5	5	3	25	75	100
III	CC-XV	U22CG15P	Core XV – Practical VI – AERIAL PHOTO & SATELLITE IMAGE INTREPRETATION	5	4	3	40	60	100
III	DSEC- II	U22DSG2A / U22DSG2B	ELECTIVE COURSE II –	5	4	3	25	75	100
III	DSEC-III	U22DSG3A / U22DSG3B	ELECTIVE COURSE III –	5	4	3	25	75	100
III	GECI	U22GEG1A / U22GEG1B	GEOGRAPHY OF HEALTH /	2	2	3	25	75	100
V	AECIII	U22AE36	Ability Enhancement Course – General Knowledge	2	2	3	25	75	100
Total				30	26				700

#### COURSE STRUCTURE ABSTRACT FOR B.SC. PROGRAMME

Part	Course		Total No of Papers	Hours	Credit	Marks
Ι	Language Course (	LC)	4	24	12	400
II	English Language	Course (ELC)	4	24	12	400
III	Core Course(CC)		15	73	63	1500
III	Allied Course (AC	()	6	28	20	600
III	Major Based Elect	ive Course (MBEC)	3	13	13	300
III	Generic Elective C	ourse (GEC)	1	2	2	100
IV	Non -Major Electiv	ve Course(NMEC)	2	4	4	200
IV	Skill Enhancement	Course(SEC)	3	6	6	300
IV	Ability Enhancement	Value Education	1	2	2	100
IV	Course(AEC)	Environmental Studies	1	2	2	100
IV		General Knowledge	1	2	2	100
V	NCC/NSS/Extension	on Activities	-1	-	1	100
	'	Total	42	180	140	4200

Extra Credit Courses*				
Value Added Course – MAPPING TECHNIQUES FOR OTHER STUDENTS (III SEMESTER)	1	2	2	50 (20+30)
Value Added Course COMPUTER ASSISTED CARTOGRAPHY FOR MAJOR STUDENTS (IV SEMESTER)	1	2	2	50 (20+30)
Total	44		144	4300

Extra Credit Courses\*-to be discussed

Programme: B.SC GEOGRAPHY Part III: Course Type -I
Semester: I Hours: 6 P/W 90 Hrs P/S

Sub. Code :U22CG1 Credits : 5

Title of the Paper: **GEOMORPHOLOGY** 

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT
	6	3	1	1	1

**PREAMBLE:** The paper emphasize the knowledge about Remote Sensing –Elements of Remote Sensing and Computer based tool for mapping and analyzing feature events on earth

COURSE OUTCOME	Unit	Hrs P/S
At the end of the Semester, the Students will be able to		
<b>UNIT 1 CO1</b> : Acquisition of information about an origin of the earth and its	1	18
theory.		
UNIT 2 CO2: To understand the theories	2	18
UNIT 3 CO3: to know about the earth movements	3	18
UNIT 4 CO4: to collect the informations of geomorphic process	4	18
<b>UNIT 5 CO5</b> :To identify the evolution of landforms	5	18

#### **SYLLABUS**

UNIT I: Geomorphology Meaning – Scope of geomorphology - Origin of the earth – Gaseous
 Hypothesis of Immanuel Kant - Nebular theory of Laplace – Tidal hypothesis of James Jeans
 and Modification by Jeffrey. Structure – Interior of the Earth

**UNIT II**: Theory of Isostasy - Wegner's Continental drift theory – seafloor spreading – Plate Tectonics

- **UNIT III**: Earth movements Endogenetic and Exogenetic- Folds Faults –Earthquakes-Origin of Volcanoes and Types, Major Landforms Types of Mountain, Plateaus, Plains.
- UNIT IV: Geomorphic process Rocks classification of rocks Igneous, sedimentary and metamorphic rocks. Weathering controlling factors types mass movement Soil formation soil profile types erosion and conservation- Fluvial landforms- drainage patterns- normal cycle of erosion -Davis and Penck.
- **UNIT V**: Evolution of landforms Erosional landforms Depositional landforms River Wind Karst Coastal Glacier.

#### **BOOKS FOR REFERENCES:**

- 1. Das Gupta Principles of Physical Geography Chand and Company, New Delhi. 1999
- 2. Kellaway P. George: A Background of Physical Geography Macmillan Company 1966.
- 3. Monkhouse: Principles of Physical Geography University of London 1975.
- 4. Phillip Lake: Physical Geography Macmillan & Company 1966.
- 5. Strahler H. Alan: Modern Physical Geography John Wiley & Sons 1992.
- 6. Strahler H. Alan: Principles of physical Geograpyhy John Wiley & sons1992.
- 7. Thornbury: Principles of Geomorphology John Wiley & Sons 1984.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT I			
	Geomorphology Meaning – Scope	6	Chalk & talk
	Origin of the Theories	6	Video lecture and student seminar, PPT
	Structure and Interior of the Earth	6	PPT lecture
UNIT II		<b>"</b>	
	Continental drift theory	6	Chalk & talk, PPT,
	Seafloor spreading	6	PPT lecture, video
	Plate tectonic theory	6	Video lecture and PPT
UNIT III			1
	Endogentic and Exogentic forces	6	Chalk & talk, PPT, reference
	Earthquake and Volcanoes	6	PPT, videos lecture
	Major landforms	6	e-content and references
UNIT IV		<b>'</b>	
	Rocks & types	6	PPT lecture
	Weathering	6	PPT lecture and student seminar
	Cycle of Erosion Theory	6	PPT And Video Lecture
UNIT V		1	1
	Evolution of landforms	6	Chalk and talk and chart-test
	River, Wind	6	PPT and video, reference
	Karst, Coastal and Glacial	6	PPT, video, reference

Course	Prog	gramr	ne Ou	tcome	es (Po	s)		Prog	ramme	Speci	fic Out	comes	(PSOs	s)	Mean
Outco														scores	
mes															of Cos
(Cos)	PO	PO	РО	РО	PO	РО	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	4	5	3	3	4	4	3	5	4	3	5	4	3	5	3.9
CO2	5	4	3	3	3	4	5	4	3	5	3	4	5	3	3.9
CO3	5	3	3	4	4	3	3	3	4	5	5	4	3	3	3.7
CO4	3	3	4	5	4	5	4	3	4	4	5	4	3	3	3.9
CO5	5	4	3	4	5	4	5	4	4	3	3	4	5	3	4.0
							Me	an Ov	erall S	core					3.9

Result: The Score for this Course is 3.9 (High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very High	
Mean Score of	$COs = \underline{Tota}$	of Value	Mean Overall Score of COs = Total of Mean Score			
Total No. of	Pos & PSOs		Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Dr.S.Usha Buvanewari

Programme: B.Sc GEOGRAPHY Part III: Course Type -II
Semester: I Hours: 3 P/W 45 Hrs P/S

Sub. Code : U22CG2P

Credits: 3

#### Title of the Paper: REPRESENTATION OF MAP SCALES AND RELIEF

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT		
	3	1	=	2	-		
<b>PREAMBLE:</b>	The prac	ctical paper	explains the Maps	s, Maps Scale, Representation	n of Rel	iefs by	
Contours and n	nathemat	ical method	S.				
		COUR	SE OUTCOME		Unit	Hrs	
At the end of the	At the end of the Semester, the Students will be able to						
CO1: Underst	CO1: Understand the map scale and their types						
CO2:Acquire	more kno	wledge abo	ut plain scale, cor	nparative scale and diagonal	2	11	
scale							
CO3: Develop	mapping	skill throug	gh the Representation	on of Relief: Hill shading –	3	12	
contouring and form lines							
<b>CO4</b> : Develop the skill to draw the cartographic relief features like hills,						11	
plateau, valleys	and ridg	ges					

#### **SYLLABUS**

**UNIT I:** Determination of Map scale – Types; Statement and Representative Fraction.

**UNIT II:** Construction of Graphical Scale - Plain Scale , Comparative and Diagonal Scale.

**UNIT III:** Representation of Relief; Pictorial, Hachuring and Hill Shading Mathematical Methods, Spot Heights, Contouring and Form Lines

UNIT IV: Relief Features: Cross Section , Hill, Plateau, Ridge, Saddle, Pass, Knoll ,Slopes, Valleys and cliff

#### **BOOKS FOR REFERENCES:**

- 1. Jayachandaran, S. (1964). Practical Geography (Tamil Edition). Tamil Nadu Text Book Society, Chennai.
- 2. Khan, M.Z.A. (1998). Text Book of Practical Geography. Concept Publishing Company, New Delhi
- 3. Negi, B.S. (1998). Practical Geography. Kedarnath and Ramnath, Meerut.
- 4. Singh, G. (1995). Map Work and Practical Geography (3rd Edition). Vikas Publishing House Pvt. Ltd., New Delhi.
- 5. Monkhouse, F.J. and Wilkinson, H.R. (1971). Maps and Diagrams (3rd Edition). Methuen & Co., London.
- 6. Saha, P. and Basu, P. (2013). Advanced Practical Geography. Kolkata Books and Allied Publisher, Kolkata.
- 7. Alvi, Z. (1998). A Text book of Practical Geography. Sangam Books Limited, Hyderabad.
- 8. Herubin, C.A. (1991). Principles of Surveying (4th Edition). Prentice Hall, New Jersey.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
		vv eek	
UNIT I		_	
	Determination of map scale	3	Chalk And Talk ,Demonstration and using maps and models
	Types of map scale	4	Chalk And Talk ,Demonstration and using instruments
	Statement and representative fraction	4	Chalk And Talk ,Demonstration and using instruments
UNIT II			
	Scale construction- plain scale	4	Chalk And Talk ,Demonstration and using instruments
	Comparative scale	3	Chalk And Talk ,Demonstration and using instruments
	Diagonal scale	4	Chalk And Talk ,Demonstration and using instruments
UNIT III			
	Relief representation- pictorial, hachuring and hill shading	6	Using topographical sheet, Demonstration and using chats
	Mathematical methods, spot heights, contouring and form lines	6	Demonstration and using instruments
UNIT IV			
	Relief features – cross section, hill, plateau	4	Using climatic data and weather reports.
	Ridges, saddle, pass	3	Using climatic data and weather reports.
	Knoll, slopes, valleys and cliff	4	Using climatic data and weather reports.

Course Outcomes (Cos)	Prog	Programme Outcomes (Pos)							Programme Specific Outcomes (PSOs)					Mean scores of Cos	
(000)	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	01 005
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Mean Overall								e						4.25

Result: The Score for this Course is 3.45 (High Relationship)

#### **DEPARTMENT OF GEOGRAPHY 2022-2023**

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very High	
Mean Score of C	COs = Total	of Value	Mean Overall Score of COs = Total of Mean Score			
Total No	o. of Pos & PSO	S	Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.M.Sirasunisa Begum

Programme: B.Sc. GEOGRAPHY
Semester: II
Part III: Course Type 4
Hours: 6 P/W 90 Hrs P/S

Sub. Code : U22CG3 Credits: 5

Title of the Paper: **CLIMATOLOGY** 

				DEPARTM	ENT OF GE	OGRAPHY 2022-20		
Pedagogy	Hours	Lecture	Peer	GD/VIDOES/TUTORIAL	ICT			
			Teaching					
	6	2	1	2	1			
PREAMBLE	E: It is a j	part of phys	ical geography,	the scientific study of clir	nate. It	explains		
elements of c	limate.							
			SE OUTCOME		Unit	Hrs P/S		
At the end of	the Seme	ster, the Stu	idents will be ab	ole to				
CO1 : Under	stand the	importance	of weather and	climate	1	18		
CO2 : Know	about the	insolation	and heat budget	of the earth and the	2	18		
Atmo	sphere							
CO3: Tempe	erature-	norizontal	and vertical-	pressure belts and the	3	18		
Planet	ary wind	belt wind -	seasonal winds	-local winds				
CO4: Familia	ar about	the atmo	spheric humidit	y – measurement- fog -	4	18		
	Clouds –Precipitations							
	CO5: Know about the Air mass- classification - cyclones origin and 5							
				hunderstorms- tornado –				

#### **SYLLABUS**

- **UNIT I**: Climatology meaning, scope and content– climatology and meteorology composition of the atmosphere –structure of the atmosphere.
- **UNIT II**: Insolation meaning distribution of insolation factors affecting the distribution heat budget of the earth and the atmosphere.
- **UNIT III**: Temperature –controlling factors of temperature distribution horizontal and vertical Pressure –variations in atmospheric pressure –horizontal distribution of pressure and pressure belts Wind General circulation Planetary wind belt seasonal winds –local winds
- **UNIT IV**: Atmospheric Humidity measurement of humidity Evaporation evapotranspiration Condensation forms of condensation fog Clouds Precipitations forms types and distribution.
- **UNIT V:** Air mass classification of air masses cyclones origin and distribution of tropical and temperate cyclones anti cyclones thunderstorms- tornado Jet streams- Climatic classification Koppen's Thronthwaite's classification.

#### **BOOKS FOR REFERENCE:**

1. Berry and Chorley – Atmosphere, Weather and Climate – Metheun.

Jet streams- Climatic classification

- Glenn T. Trewartha & Lyle H. Horn An Introduction to Climate- McGraw Hill Book Company- New Delhi - 1980.
- 3. Howard J. CritchField(1999)-General Climatology Prentice Hall of India New Delhi 1999.
- 4. Keith Smith. Principles of Applied Climatology -McGraw Hill Book Co., New york 1998.
- 5. Lal D.S. Climatology- Chaitanya Publisher's House, Allahabad 1998.
- 6. Lal.M.Global Warming-Concerns for Tomorrow Tata McGraw Hill publishing company Ltd New Delhi
- 7. Oliver. John E, and John J Hiddore, (2003) Climatology An Atmospheric Science Pearson Education (Singapore) PVT.Ltd, New Delhi 2003.
- 8. Siddhartha.K. Atmosphere Weather And Climate Kisalaya Publication Pvt. Ltd New Delhi

UNITS	TOPIC	Hrs / Week	MODE OF TEACHING
UNIT I			
	Meaning, Scope & Content	6	Maps, Atlas , VLC and PPT

#### DEPARTMENT OF GEOGRAPHY 2022-2023

	composition of atmosphere –	6	Maps, Atlas , VLC and PPT
	structure of atmosphere	6	Maps, Atlas , VLC and PPT
UNIT II			
	Distribution of insolation	6	Maps, Atlas , VLC and PPT
	factors affecting the distribution	6	Maps, Atlas , VLC and PPT
	Heat budget of the earth and the atmosphere	6	Maps, Atlas , VLC and PPT
UNIT III			
	Controlling factors of temperature distribution	6	Maps, Atlas , VLC and PPT
	Variations in atmospheric pressure	6	Maps, Atlas , VLC and PPT
	General circulation of wind	6	Maps, Atlas , VLC and PPT
UNIT IV			
	Measurement of humidity	6	Maps, Atlas , VLC and PPT
	Evaporation – evapotranspiration - Condensation	6	Maps, Atlas , VLC and PPT
	Fog - Clouds – Precipitations	6	Maps, Atlas, VLC and PPT
UNIT V			
	classification of air masses	6	Maps, Atlas , Census Report VLC and PPT
	Cyclones- Anti cyclones	6	Maps, Atlas , VLC and PPT
	Climatic classification	6	Maps, Atlas , VLC and PPT

Cours	Progr	ramme (	Outcom	es (Pos	)			Programme Specific Outcomes (PSOs)					Mean		
e	e														score
Outco	Outco														s of
mes															Cos
(Cos)	PO	PO2	PO3	PO4	PO5	PO6	PO7	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1							1	2	3	4	5	6	7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO5	CO5   4   4   4   4   4   4   4   4   4								4						
	Mean Overall Score										4.2				

Result: The Score for this Course is 3.45 (High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%		
Scale	1	2	3	4	5		
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0		
Quality	Very Poor	Poor	Moderate	High	Very High		
Mean Score of CO	$s = \frac{\text{Total of Va}}{}$	<u>lue</u>	Mean Overall Score of COs = Total of Mean Score				
	Total No. of Pos	& PSOs	Total No. of COs				

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Department of Geography.

Programme: B.Sc GEOGRAPHY
Semester: II
Part III: Course Type-IV
Hours: 3 P/W 45 Hrs P/S

Sub. Code : U22CG4P Credits: 3

Title of the Paper: REPRESENTATION OF CLIMATIC DATA AND WEATHER MAP

#### **INTERPRETATION**

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT
----------	-------	---------	---------------	--------------------	-----

2-1/11/11 O. 0-0-0-11/11 O. 0-0-0-11/11 O. 0-0-0-11/11 O. 0-0-0-0-11/11 O. 0-0-0-0-0-0-11/11 O. 0-0-0-0-0-0-11/11 O. 0-0-0-0-0-0-0-11/11 O. 0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-						
3 1	=	2	-			
<b>PREAMBLE:</b> The practical paper ex	plains Represent	ation of Climatic Data: Clin	natic gra	ıph,		
Water budget graph, Climograph, Hyt	ther Graph, Raint	fall dispersion diagram, Ergo	o Graph	and		
Wind Rose: Simple and Octagonal wi	nd rose. Maps ar	nd Instruments. Study of Indiar	n Daily W	eather		
maps						
COURSE OUTCOME: At the end of the Semester, the Students will be able to Unit						
<b>CO1</b> : Representation of Climatic Dat	1	10				
Climograph.						
CO2: Hyther Graph, Rainfall dispers	2	10				
Simple and Octagonal wind rose	e.					
CO3: Maps and Instruments- Weather	3	10				
and symbols- Weather Station model- Salient features of Indian Seasons.						
CO4: Study of Indian Daily Weather m	Procedures of interpretation -	4	15			
Interpretation of Indian daily weather l	Report.	-				

#### **SYLLABUS**

**UNIT I:** Representation of Climatic Data: Climatic graph, Water budget graph and Climograph.

**UNIT II:**Hyther Graph, Rainfall dispersion diagram, Ergo Graph and Wind Rose: Simple and Octagonal wind rose.

**UNIT III:** Weather Maps and Instruments- Weather Elements on map- Meteorological signs and symbols- Weather Station model- Salient features of Indian Seasons.

**UNIT IV:** Study of Indian Daily Weather maps: Information - Procedures of interpretation —Interpretation of Indian daily weather Report.

#### **BOOKS FOR REFERENCES:**

- 1. Ahmad khan. M.Z- Text Book of practical Geography Concept Publishing company, New Delhi 1988.
- 2. Ishtiaq M. A text Book of practical Geography Heritage Publishers New Delhi 2001.
- 3. Jayachandran.S Practical geography Tamilnadu Book Society, Chennai, 1963 (Tamil copy).
- 4. Misra R.P. and Ramesh. A Fundamentals of Cartography Concept Publishing company New Delhi 2002.
- 5. Monkhouse F.J. & Wilkinson H.R Maps and Diagrams- Methuen, London 1994.
- 6. Dr. Pijushkanti Saha & Dr. ParthBasu Advanced Practical Geography A Laboratory Manual Books&Allied Pvt.Ltd,Kolkatta 2004.
- 7. Singh and Kanunja Map work and Practical Geography Central Book Depot Allahabad 1979
- 8. Singh R.L Elements of Practical Geography Kalyani PublisheNew Delhi 1979.

UNITS	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNIT I			
	Representation of climatic data:	3	Chalk And Talk ,Demonstration and
	Climatic graph		using maps and models
	Water budget graph	3	Chalk And Talk ,Demonstration and
			using instruments
	Climograph	4	Chalk And Talk ,Demonstration and
			using instruments
UNIT II			
	Hyther Graph,	3	Chalk And Talk ,Demonstration and
	7 1 /		using instruments

#### DEPARTMENT OF GEOGRAPHY 2022-2023

	Rainfall dispersion diagram	3	Chalk And Talk ,Demonstration and using instruments
	Ergo Graph & wind rose	4	Chalk And Talk ,Demonstration and
			using instruments
UNIT III			
	Weather maps and instruments	3	Using topographical sheet,
			Demonstration and using chats
	Weather elements	3	Demonstration and using instruments
	Meteorological sign and symbols - Weather	4	Demonstration and using instruments
	Station model		
UNIT IV			
	Study of Indian daily weather maps.	5	Using climatic data and weather reports.
	Procedure of interpretation	5	Using climatic data and weather reports.
	Weather map interpretation.	5	Using climatic data and weather reports.

Course Outco	Prog	gramr	ne Ou	tcom	es (Po	s)		Prog	ramme	Speci	fic Out	comes	(PSOs	3)	Mean scores of Cos
mes (Cos)	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	or cos
CO1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Mean Overall Score								4.25							

Result: The Score for this Course is 3.45 (High Relationship)

Mapping	1-20%	21-40%		41-60%	61-80%	81-100%
Scale	1	2		3	4	5
Relation	0.0-1.0	1.1-2.0		2.1-3.0	3.1-4.0	4.1-5.0
Quality	Very Poor	Poor		Moderate	High	Very High
Mean Score of $COs = \underline{Total \ of \ Value}$				Mean Overall Score of $COs = \frac{Total \text{ of Mean Score}}{Total \text{ of Mean Score}}$		
	Total No. of l	Pos & PSOs	Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Dr.A.Gandhimathi

Programme: B.Sc GEOGRAPHY
Semester: III
Part III: Course Type -V
Hours: 6 P/W 90 Hrs P/S

Sub. Code : U22GCG5 Credits :4
Title of the Paper: OCEANOGRAPHY

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT	
	6	2	1	2	1	

PREAMBLE: Oceanography is a branch of physical geography deals with meaning scope, ocean temperature, salinity and density. Dynamics of ocean and corals, marine deposits and marine resources.

marmo resources.		
COURSE OUTCOME	Unit	Hrs
At the end of the Semester, the Students will be able to		P/S
<b>CO1</b> : Acquire knowledge about the meaning, scope and significance of	1	18
oceanography and configuration of ocean floor		
CO2:understand the Temperature, Salinity and Density of sea water – Atlantic, Pacific and	2	18
Indian Ocean .		
CO3: Familiar with Dynamics of Ocean Water – Waves and Tides and Tsunami	3	18
CO4: understand the types and general Ocean Currents- Types- Corals	4	18

1			1.0
	<b>CO5</b> : develop knowledge about the Marine Deposit	s and Marine Resources. 5	18

#### **SYLLABUS**

**UNIT I**: Oceanography – meaning – scope and importance of oceanography- Distribution of land and sea –ocean bottom – continental shelf, continental slope, and deep sea plain, deeps and trenches-submarine canyons - Bottom topography of Atlantic, Pacific and Indian Ocean.

**UNIT II**: Temperature – Process of Heating and Cooling- distribution of temperature – horizontal and vertical - Salinity- Sources - Controlling factors - distribution of salinity – horizontal and vertical.

**UNIT III**: Oceanic movements - waves and tides -ocean Currents of Atlantic, Pacific and Indian Oceans - El Nino and La Nina.

**UNIT IV**: Marine resources – classification - coral reef – conditions of Growth - types and distribution of coral reefs Theories of origin.

**UNIT V**: Marine deposits- Sources and types – Classification – Marine Sediments – Distribution of Sediments.

#### **BOOKS FOR REFERENCES:**

- 1. Alyn.c.Duxbury and Alison . B. Duxbury- an introduction to the world's oceans- Addison Wesley publishing company ltd .1994.
- 2. Chorley.R.J- Introduction to Physical Hydrology- Methuen 1974.
- 3. Das Gupta-Principles of Physical Geography Chand & Co-New Delhi 1955.
- 4. Gorden Pirie.R-Oceanography-Oxford University Press- U.S.A -1977.
- 5. Monkhouse- Principles of Physical Geography-John Wiley & Sons 1992.
- 6. Philip Lake- Physical Geography- MacMillan & Co 1966.
- 7. Siddhartha.K.- Oceanography- A Brief Introduction Kisalya Publication, Pvt.Ltd 1999.
- 8. Sharma and Vatal-Oceanography for Geographers Chaitanya Publication 1986.
- 9. Strahler Physical Geography John Wiley & Sons New York -1992.
- 10. Tom Garrison Oceanography An Introduction to Marine Science Words Worth Publishing Company Belmont California 1993.

UNITS	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNITI			
	Meaning – scope and importance of	6	Group discussion, Maps and Atlas
	oceanography		
	Distribution of land and sea	6	Group discussion, Maps and Atlas
	Bottom topography	6	Group discussion, Maps and Atlas
UNIT II			
	Process of Heating and Cooling	6	chalk and talk and usage of maps and atlas
	Salinity	6	chalk and talk and usage of maps and atlas
	Horizontal and vertical.	6	chalk and talk and usage of maps and atlas
UNIT III			
	Oceanic movements	6	Maps, Atlas, Models and VLC
	waves and tides –.	6	Maps, Atlas, Models and VLC
	Ocean Currents - El Nino and La Nina	6	Models and VLC
UNIT IV		1	1
	Marine resources	9	Maps, Atlas, Models and VLC

#### DEPARTMENT OF GEOGRAPHY 2022-2023

	Theories	9	Maps, Atlas, Models and VLC
UNIT V			
	Marine Deposits	9	Maps, Atlas, Models and VLC
	Marine Sediments	9	Maps, Atlas, Models and VLC

Course Outcomes (Cos)	Programme Outcomes (Pos)						Programme Specific Outcomes (PSOs)					Mean scores of Cos			
	P	РО	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	P	
	O	2	3	4	5	6	7	1	2	3	4	5	6	S	
	1													O	
														7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Mean Overall Score											4.6			

Result: The Score for this Course is 3.45 (High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very High	
Mean Score of	COs = Total	l of Value	Mean Overall Score of COs = <u>Total of Mean Score</u>			
	Total No.	of Pos &	Total No. of COs			
PSOs						

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.N.Pothumani

Programme: B.SC GEOGRAPHY Part III: Course Type –VI
Semester: III Hours: 3 P/W 45 Hrs P/S

Sub. Code : U22CG6P Credits : 3

#### Title of the Paper: MAP PROJECTIONS

Pedagogy	Но	Lec	Pee	GD/VIDOES/TUT	ORIAL	,	ICT		
	urs	ture	r						
			Tea						
			chi						
			ng						
	3	1	-	2			-		
PREAMBLE	PREAMBLE: The paper demonstrate the construction,								
understand and practice different types of Map projections.									
C	OME	Uni	Hrs F	P/S					
At the end of	the S	emest	er, the	Students will	t				
be able to									
CO1: unders	stand t	he co	nstruc	ction methods	1	1	1		
of different	types	of dire	ection	s and Bearings					
CO2: Constru	uct an	d Ana	lyse tl	he measurement	2	1	1		
of are	of area and measurement of Distance								
with									
methods.									

<b>CO3</b> :	Construct	and	understand	the	3	11
	classification			of		
	projections(Cy	tant,				
	Equal area and	ion)				
<b>CO4</b> :	Understand to n		4	12		
,Zenitl	nal, Polyconic,					
Sinusc	oidal projections	•				

#### **SYLLABUS**

- **UNIT I :** Direction Bearings Quarter Angle and Whole Circle Bearings.
- UNIT II: Measurement of Area; Square and Triangle –
   Measurement of Distance Thread, Divider and Rotometer.
- UNIT III : Map Projection -Meaning Classification Construction ( Graphical) and uses choice of projections
   -Cylindrical Projection : Equidistant Equal area Mercator's Projection.
- UNIT IV: Conical Projections: One Standard Parallel, Two Standard parallels, Bonne's projection and Polyconic projections - Zenithal Projection: Equidistant - Equal Area - Gnomonic - Stereographic Projection - Mollweide -Sinusoidal.

#### **BOOKS FOR REFERENCES**

- 1. Gopal singh, (1996). Map work and practical geography, Vikas Publishing House Pvt.Ltd.,
- 2. Khullar, (1997). Practical Geography, Educational Publishers, New Delhi.
- 3. Monkhouse, F.J. and Wilkinson, H.R., (1989). Maps and Diagrams, B.I.Publications, New Delhi.
- 4. Pijushkanti Saha and Partha Basu, (2010). Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata.
- 5. Singh, R. L., (2005). Elements of Practical Geography, Kalyani Publishers, New Delhi.
- 6. Zulfequar Ahmad Khan, M. D., (1998). Text Book of Practical Geography, Concept Publishing Company, New Delhi.

UNIT	TOPIC	Hr	MODE OF
S		s/	TEACHING

						W ee k									
UNIT I	Bear	ing		rection		6	Chalk And Talk ,Demonstration and using instruments(computer)								
		rter ang e Bear		whole		5	,Dem	k And T constrat iments	Talk ion and	using					
UNIT II						ı	ı				1				
			ents o d Triai	f area ngle	_	6	,Dem	k And Tonstration	Talk ion and	using					
	Thre		ents of rider ar	Distano Id	ce –	5	,Dem	k And Tonstration	Talk ion and	using					
UNIT III						ı	1				1				
	proje Proje	sificati ection- ection: al are	Eq	projectorice Cylinguidista Merc	of drical nt –	8	Chalk And Talk ,Demonstration and using instruments								
	Proje	ection													
	Consuses	structio	on (Gra	phical)	and	3	,Dem	k And Tonstratiments	Talk ion and	using					
UNIT IV											1				
	Stan Stan	dard p dard p				6	,Dem	k And T nonstrat nments	Talk ion and	using					
	Poly Zeni Equi Gno	conic p thal Pr distant	orojecti ojectio : – Equ	ons -		3	,Dem	k And T constrat iments	Talk ion and	using					
			e – Sir	usoida	al	3	,Dem	k And Tonstratuments	Talk ion and	using					
Course Outcom	Prog	ramme	Outco	omes (F	Pos)	1			amme S	pecific	Outcom	es (PSO	es)		Mean scores of Cos
(Cos)	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	21 203
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
						Mear	Overa	ll Score	<u> </u>						4.75

Result: The Score for this Course is 4.75 (Very High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very High	
Mean Score of CO	Os = Total of	Value	Mean Overall Score of COs = Total of Mean Score			
	Total No. of I	Pos & PSOs	Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.M.Sirasunisa Begum

Programme: B.SC GEOGRAPHY Part III: Course Type- AC-V

Semester : III & IV Hours : 1+ 1 P/W - 15+15= 30 Hrs P/S

Sub. Code : U22AGGP Credits : 2

Title of the Paper: STATISTICAL MAPS AND DIAGRAMS

Pedagogy	Hours	Lecture	Peer	GD/VIDOES/TU	ΓORIAL	ICT	
			Teaching				
	1+1	30 MINS	30 MINS	30 MINS		30 MINS	
PREAMBLE	: This pra	actical cours	se explains the n	nethod of representa	ation of stati	istical data in	
the form diagra	ams and	maps					
		COURSE C	OUTCOME		Unit	Hrs P/S	
At the end of t	he Seme	e to					
CO1: Underst	tand the	method of r	epresentation of	statistical data in	1	3 + 3	
the form of dia	igrams.						
CO2: Acquire	e more	knowledge	about the diffe	erentiation of two	2	3 + 3	
dimens	sion and t	three dimens	sion graphs and o	diagrams			
CO3: Develop	p the n	napping skil	l about the rep	resentation of the	3	4 + 4	
diagrar	diagrams in the maps						
CO4: Familiar	with the	the preparation	4	5+5			
of diagrams an	nd maps.						

#### **SYLLABUS**

**UNIT – I:** Graphs- Line graph – Multiple graph – Band graph

**UNIT–II:** One dimensional - Bar Diagram : Simple Bar - Vertical Bar - Horizontal Bar and Compound Bar - Compared Bar - Multiple Bar- Pyramidal Bar.

**UNIT – III:** Two dimensional diagram – squire – circle and pie diagram

**UNIT – IV:** Three dimensional diagram – cube – Spherical diagram. Locational diagram maps:

Line – Bar – Circle and Pie diagram maps.

#### **BOOKS FOR REFERENCE**

- 1. Ahmad khan. M.Z- Text Book of practical Geography Concept Publishing company ,New Delhi 1988.
- 2. Ishtiaq M. A text Book of practical Geography Heritage Publishers New Delhi 2001.
- 3. Jayachandran.S Practical geography Tamilnadu Book Society, Chennai, 1963 (Tamil copy).
- 4. Misra R.P. and Ramesh. A Fundamentals of Cartography Concept Publishing company New Delhi 2002.
- 5. Monkhouse F.J. & Wilkinson H.R Maps and Diagrams- Methuen, London 1994.
- 6. Dr. Pijushkanti Saha & Dr. ParthBasu Advanced Practical Geography A Laboratory Manual Books&Allied Pvt.Ltd,Kolkatta 2004.
- 7. Singh and Kanunja Map work and Practical Geography –Central Book Depot –Allahabad 1979

#### 8. Singh R.L - Elements of Practical Geography – Kalyani PublisheNew Delhi - 1979.

UNITS	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNIT 1			
	Statistical method:	1+1	Chalk And Talk ,Demonstration
	Line graph-		and using instruments(computer)
	Multiple graph	1+1	Chalk And Talk ,Demonstration
			and using instruments (computer)
	Band graph	1+1	Chalk And Talk ,Demonstration
			and using instruments(computer)
UNIT 11			
	One dimensionall - Bar Diagram:	2+2	Chalk And Talk ,Demonstration
	Simple Bar – vertical Bar – Horizontal		and using instruments(computer)
	Bar Compound Bar – Compared Bar –	1+1	Chalk And Talk ,Demonstration
	Multiple Bar- Pyramidal Bar.		and using instruments(computer)
UNIT II	Ι		
	Two dimensional diagram – squire –	2+2	Chalk And Talk ,Demonstration
	circle		and using instruments(computer)
	pie diagram	2+2	Chalk And Talk ,Demonstration
			and using instruments(computer)
UNIT IV	7		
	Three dimensional diagram - cube -	3+3	Chalk And Talk ,Demonstration
	spherical diagram. Locational maps		and using instruments(computer)
	Line – Bar – Circle and Pie diagram	2+2	Chalk And Talk ,Demonstration
	maps		and using instruments(computer)

	Prog	ramme	Outco	mes (F	Pos)			Progra	amme S	pecific (	Outcome	es (PSO	s)		Mean
Course															scores
Outcom												,			of Cos
es	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PS	
(Cos)	1	2	3	4	5	6	7	1	2	3	4	5	6	O7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		<u>-</u>	•	<u>-</u>	•	Mean	Overa	ll Score	;						4.75

Result: The Score for this Course is 4.75 (High Relationship)

Mapping	1-20%	21-40%	41	1-60%	61-80%	81-100%
Scale	1	2		3	4	5
Relation	0.0-1.0	1.1-2.0	2.	1-3.0	3.1-4.0	4.1-5.0
Quality	Very Poor	Poor	M	oderate	High	Very High
Mean Score of CO	$Os = \frac{Total \ of}{1}$	Value Value	Mean Overall Score of COs = Total of Mean Score			
	Total No. of l	Pos & PSOs			Tota	l No. of COs

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.N.Pothumani

Programme: B.Sc GEOGRAPHY Part IV: Course Type –NMEC-I Semester: IV Hours: 2 P/W 30 Hrs P/S

Sub. Code : U22NMG1 Credits : 2

Title of the Paper: FUNDAMENTALS OF PHYSICAL GEOGRAPHY

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT				
	6	2	1	1	2				
<b>PREAMBLE:</b>	<b>PREAMBLE:</b> The paper explain solar System, shape and size of the earth system earth								
fundamentals o	f physica	al geography	•						
		COUR	SE OUTCOME		Unit	Hrs			
At the end of the		P/S							
CO1: Geograp	1	6							
CO2: Interior of	of the Ear	rth — Earth N	Novement		2	6			
CO3: Rocks – Igneous- Sedimentary- Metamorphic .						6			
CO4: Weathering - Factors –Physical, Chemical, Biological.						6			
CO5: Elements	5	6							
and precipitation	and precipitation								

#### **SYLLABUS**

- **UNIT I**: Scope and content of physical geography the Earth and Universe, solar system, shape of the Earth Latitude, Longitude.
- **UNIT II**: Movement of the Earth: Rotation and Revolution Interior of the Earth Internal structure.
- **UNIT –III**: Plate Tectonic Rocks types and classification Igneous, Sedimentary, Metamorphic folding, faulting- Earthquake and Volcanoes.
- UNIT IV: Forces of gradation and Weathering factors Physical, Chemical and Biological –
   Mass wasting and Mass Movement.
- UNIT V: Weather and Climate Definition, Elements of Weather and Climate Temperature,
   Pressure, Wind, Humidity and Precipitation.

#### **BOOKS FOR REFERENCE**

- 1. Das Gupta & Kapoor Principles of Physical Geography Chand & Co., Ltd., New Delhi 2004.
- 2. Sharma. T.C. & Coutino Economic and Commercial Geography of India Vikas Publishing House Pvt. Patna 1980.
- 3. Strahler A.H.& Strahler. A.N. Modern Physical Geography John Willey& sons 2004.
- 4. Surendar Singh Geography for the UPSC Civil Service Preliminary Examination Tata Mc Graw Hill New Delhi 2007.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT I		•	
	Geography – Definition – Solar System – Shape & Size of the Earth	6	Chalk and talk, ,Grouph discussion,with Models , PPT and VLC
UNIT II			
	Interior of the Earth – Earth Movement	2	Chalk and talk, ,Grouph discussion,with Models , PPT and VLC
	Fold, Fault,	4	Chalk and talk, ,Grouph discussion, with Models , PPT and VLC
UNIT III		•	
	Rocks – Igneous- Sedimentary- Metamorphic .	6	Chalk and talk, ,Grouph discussion, with Models , PPT and VLC
UNIT IV		1	
	Weathering - Factors –Physical, Chemical, Biological.	6	Chalk and talk, ,Grouph discussion,with Models , PPT and VLC
UNIT V			
	Elements of weather and climate – temperature, pressure, wind, humidity and precipitation	6	Chalk and talk, ,Grouph discussion,with Models , PPT and VLC

Course	Programme Outcomes (Pos)							Programme Specific Outcomes (PSOs)						Mean	
Outcom															scores
es															of Cos
(Cos)	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Mean Overall Score									4.6					

Result: The Score for this Course is 4.6 (Very High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%
Scale	1	2	3	4	5
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0
Quality	Very Poor	Poor	Moderate	High	Very High
Mean Score of	$COs = \frac{Total}{Total}$ No. of I	e or varae	Mean Overall Score of	of $COs = \frac{Total \text{ of } M}{Total \text{ No.}}$	

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Department of Geography

Programme: B.SC GEOGRAPHY
Semester: IV
Part III: Course Type -VII
Hours: 4 P/W 60Hrs P/S

Sub. Code : U22CG7 Credits :4
Title of the Paper: CARTOGRAPHY

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT
	4	2	-	1	1

#### PREAMBLE:

The Paper on cartography describes nature-scope – modern trends- latitudes –longitudes-international date line and maps scale – maps - point- line- area- symbols- contours- map projection

COURSE OUTCOME	Unit	Hrs
At the end of the Semester, the Students will be able to		P/S
UNIT 1 CO1: Understanding about the meaning and nature of cartography	1	12
<b>UNIT 2 CO2</b> : Getting knowledge about map design with tools and techniques.	2	12
<b>UNIT 3 CO3</b> : Analyzing the symbolizing and processing the map data.	3	12
UNIT 4 CO4: Attain the familiarity about reliefs in maps, climate & hydrological data and explain about socio economic data.	4	12
<b>UNIT 5 CO5:</b> Knowledge about map projections and classification.	5	12

#### **SYLLABUS**

- **UNIT I**: Meaning and Nature of Cartography Cartography as a Science Historical Development Maps Types of Maps Compilation and Generalization of maps.
- **UNIT II:** Map Design and Layout Lettering and Toponomy Tools and Techniques for Drawing Map Construction and Reproduction.
- **UNIT III**: Symbolizing and Processing Data Diagrams on Maps Point, Line, Area and Volume Symbols Qualitative and Quantitative maps.
- **UNIT IV**: Mapping the Geologic Structure, Relief and Terrain Data Mapping the Climatological and Hydrological Data Mapping the Socio- Economic Data Cartographic Appreciation.
- **UNIT V**: Map Projections Fundamentals Classification Major Types of Map Projections.

#### **BOOKS FOR REFERENCES:**

- 1. Ahmad Khan. M. Z –Text Book of Practical Geography Concept Publishing Company New Delhi 2001
- 2. Ishtiaq M. A text book of Practical Geography Heritage Publisher New Delhi 1989.

- 3. Jayachandran.S Practical geography Tamilnadu Book Society, Chennai, 1963 (Tamil version).
- 4. Misra R.P. and Ramesh. A- Fundamentals of Cartography Concept Publishing Company New Delhi 2002.
- 5. Robinson.A.H. Elements of Cartography. John Wiley &Sons.U.S.A 1995.
- 6. Monkhouse F.J. & Wilkinson.H.R-Maps and Diagrams Methuen London 1994.
- 7. Singh R.L; Elements of Practical Geography Kalyani Puplication. New Delhi. 1979
- 8. Singh and Kanunja Map work and Practical Geography Central Book Depot Allahabad.1966
- 9. SethuRakkayee .S An Introduction to Cartography Shanmugam Pathipagam, madurai-7,2005(Tamil copy).

UNITS	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNIT I -	Meaning and Nature of Cartography		
	Meaning & Nature	2	Chalk and Talk & Maps
	Cartography as a Science	5	Maps and Models
	Compilation & Generalization	5	Maps, Diagrams and Models
UNIT II-	- Map Design and Layout		
	Lettering and Toponomy	3	Atlas, Models and Maps
	Tools and Techniques for Drawing	3	Explanation and demonstration with Models and Maps
	Construction and Reproduction	6	Lecture & Atlas, Models and Maps with PPT
UNIT III	I -Symbolizing and Processing Data		
	Diagrams on Maps	6	Demonstrate with Atlas and Maps
	Qualitative and Quantitative maps	6	PPT – Thematic Atlas and Maps
UNIT IV	<sup>7</sup> -Mapping		
	Geologic Structure	4	Explanations with Models
	Relief and Terrain Data & Socio Economic	4	Chalk & Talk, Survey of India topographical maps & Atlas
	Cartographic Appreciation	4	Survey of India topographical maps & Atlas
UNIT V	- Map Projections	l	
	General Principles	3	Demonstrate with the skeleton Globe and Atlas
	Classification	5	Atlas and Maps

World Projections	4	Demonstrate with the skeleton
		Globe, Atlas, Models and Maps

Course Out comes (Cos)	Programme Outcomes (Pos)							Programme Specific Outcomes (PSOs)							Mean scores of Cos
	РО	PO	РО	PO	PO	РО	PO	PSO	PSO	PSO	PSO	PSO	PSO	PS	
	1	2	3	4	5	6	7	1	2	3	4	5	6	O7	
CO1	4	4	4	4	4	4	4	4	4	4	3	4	4	3	3.857
CO2	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3.929
CO3	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3.857
CO4	3	3	3	4	3	3	3	3	3	3	3	4	3	3	3.143
CO5	3	4	4	4	3	4	3	3	3	3	3	3	3	3	3.286
	Mean Overall Score									3.614					

Result: The Score for this Course is 3.45 (High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%		
Scale	1	1 2 3		4	5		
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0		
Quality	Very Poor	Poor	Moderate	High	Very High		
Mean Score of CC	$Os = \frac{Total \text{ of } Va}{}$	lue	Mean Overall Score of COs = <u>Total of Mean Score</u>				
	Total No. of Pos	& PSOs	Total No. of COs				

Course Designer: Dr.J.Rosy Grace Angelene.

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

3

4

11

11

Programme: B.SC GEOGRAPHY
Semester: IV
Part III: Course Type -VIII
Hours: 3 P/W 45 Hrs P/S

Sub. Code : U22CG8P Credits : 3

Title of the Paper: SURVEYING

The of the Paper. Servering							
Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIA	ICT		
				L			
	3	1	-	2	-		
<b>PREAMBLE:</b> The paper demonstrate the construction, understand and practice different							
survey methods.							
	Unit	Hrs					
At the end of the	At the end of the Semester, the Students will be able to						
CO1: apply the knowledge to conduct the two methods of chain survey						12	
CO2: Construct and Analyse the prismatic compass and its applications						11	

#### **SYLLABUS**

**UNIT I**: Chain Survey; Triangulation, Open and Closed Traverse.

**UNIT II**; Prismatic Compass Open and Closed Traverse - Bowdich's Method.

**CO3**: understand about plane table survey and constructions of its types.

CO4: Understand to measure the height .of the object through (Indian

**UNIT III**: Plane Table Survey Open and Closed Traverse, Correction of Closing Errors.

UNIT IV: Indian Clinometer Accessible and Inaccessible Method - Dumpy Level.

#### **BOOKS FOR REFERENCES**

clinometers), leveling (dumpy level)

- 1. Gopal singh, (1996). Map work and practical geography, Vikas Publishing House Pvt.Ltd.,
- 2. Khullar, (1997). Practical Geography, Educational Publishers, New Delhi.
- 3. Monkhouse, F.J. and Wilkinson, H.R., (1989). Maps and Diagrams, B.I.Publications, New Delhi.
- 4. Pijushkanti Saha and Partha Basu, (2010). Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata.
- 5. Singh, R. L., (2005). Elements of Practical Geography, Kalyani Publishers, New Delhi.
- 6. Zulfequar Ahmad Khan, M. D., (1998). Text Book of Practical Geography, Concept Publishing Company, New Delhi.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT I		•	
	Chain survey – open traverse	6	Chalk And Talk ,Demonstration and using instruments(computer)
	Chain survey – closed traverse	6	Chalk And Talk ,Demonstration and using instruments
UNIT II			
	Prismatic compass – open traverse		Chalk And Talk ,Demonstration and using instruments
	Prismatic compass – closed traverse	3	Chalk And Talk ,Demonstration and using instruments
	Appling Bowdich method	3	Chalk And Talk ,Demonstration and using instruments
UNIT III		•	
	Plane table survey – open traverse	5	Chalk And Talk ,Demonstration and using instruments
	Plane table survey – closed traverse	6	Chalk And Talk ,Demonstration and using instruments
UNIT IV	,		-
	Indian clinometer accessible and inaccessible method	5	Chalk And Talk ,Demonstration and using instruments , Using climatic charts and weather reports.
	Dumpy level	6	Chalk And Talk ,Demonstration and using instruments

Course Out comes	Programme Outcomes (Pos)					Programme Specific Outcomes (PSOs)						Mean scores of Cos			
	DO	DO	DO.	ъ0	ъ.	- DO	ъ0	Dao	Dao	DGG	DOO	Dao	Dao	Dao	01 C08
(Cos)	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Mean Overall Score									4.75					

Result: The Score for this Course is 4.75 (Very High Relationship)

Mapping	1-20%	21-40%		41-60%	61-80%	81-100%
Scale	1	2		3	4	5
Relation	0.0-1.0	1.1-2.0		2.1-3.0	3.1-4.0	4.1-5.0
Quality	Very Poor	Poor		Moderate	High	Very High
Mean Score of COs	$s = \frac{\text{Total of Val}}{}$	u <u>e</u>	Mean Overall Score of COs = Total of Mean Score			
	Total No. of Pos &	& PSOs	Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%

APPLY	20%	20%

Course Designer: Mrs.M.Sirasunisa Begum

Programme: B.SC GEOGRAPHY Part III: Course Type-AC-V

Semester : III & IV Hours : 1+ 1 P/W - 15+15= 30 Hrs P/S

Sub. Code : U22AGGP Credits : 2

## Title of the Paper: STATISTICAL DIAGRAMES AND MAPS

CD///IDOEC/TI/TODIAI

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT		
	1+1	1	-	1	-		
<b>PREAMBLE:</b> This practical course explains the method of representation of statistical data							
in the form diag	grams and	d maps					
		COUR	SE OUTCOME		Uni	Hrs	
At the end of th	t	P/S					
CO1: Understa	1	3 + 3					
CO2: Acquire more knowledge about the differentiation of two dimension and three dimension graphs and diagrams						3+3	
CO3: Develop the mapping skill about the representation of the diagrams in the maps						4+4	
CO4: Familiar maps.	4	5+5					

### **SYLLABUS**

**UNIT - I:** Graphs- Line graph – Multiple graph – Band graph

UNIT- II: One dimensionall - Bar Diagram : Simple Bar - vertical Bar - Horizontal Bar and
 Compound Bar - Compared Bar - Multiple Bar- Pyramidal Bar.

**UNIT-III:** Two dimensional diagram – squire – circle and pie diagram

**UNIT- IV:** Three dimensional diagram – cube – spherical diagram. Locational diagram maps : Line – Bar – Circle and Pie diagram maps.

### **BOOKS FOR REFERENCE**

- 1. Ahmad khan. M.Z- Text Book of practical Geography Concept Publishing company, New Delhi 1988.
- 2. Ishtiaq M. A text Book of practical Geography Heritage Publishers New Delhi 2001.
- 3. Jayachandran.S Practical geography Tamilnadu Book Society, Chennai, 1963 (Tamil copy).
- 4. Misra R.P. and Ramesh. A Fundamentals of Cartography Concept Publishing company New Delhi 2002
- 5. Monkhouse F.J. & Wilkinson H.R Maps and Diagrams- Methuen, London 1994.
- 6. Dr. Pijushkanti Saha & Dr. ParthBasu Advanced Practical Geography A Laboratory Manual Books&Allied Pvt.Ltd,Kolkatta 2004.
- 7. Singh and Kanunja Map work and Practical Geography Central Book Depot Allahabad 1979
- 8. Singh R.L Elements of Practical Geography Kalyani PublisheNew Delhi 1979.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT I		110011	
	Statistical method:	1+1	Chalk And Talk ,Demonstration and
	Line graph-		using instruments(computer)
	Multiple graph	1+1	Chalk And Talk ,Demonstration and
			using instruments (computer)
	Band graph	1+1	Chalk And Talk ,Demonstration and using instruments(computer)
UNIT II		•	
	One dimensionall - Bar Diagram : Simple Bar – vertical Bar – Horizontal	2+2	Chalk And Talk ,Demonstration and using instruments(computer)
	Bar Compound Bar – Compared Bar – Multiple	1+1	Chalk And Talk ,Demonstration and
	Bar- Pyramidal Bar.		using instruments(computer)
UNIT III			
	Two dimensional diagram – squire – circle	2+2	Chalk And Talk ,Demonstration and
			using instruments(computer)
	pie diagram	2+2	Chalk And Talk ,Demonstration and
			using instruments(computer)
UNIT IV			
	Three dimensional diagram – cube – spherical	3+3	Chalk And Talk ,Demonstration and
	diagram. Locational maps		using instruments(computer)
	Line – Bar – Circle and Pie diagram maps	2+2	Chalk And Talk ,Demonstration and using instruments(computer)

	Prog	ramme	Outco	mes (F	Pos)			Progra	amme S	pecific (	Outcome	es (PSO	s)		Mean
Course													scores		
Out															of Cos
comes	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
(Cos)	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Mean Overall Score									4.75					

Result: The Score for this Course is 4.75 (High Relationship)

	100	c for this course is	34.75 (High Ko	nationship)		
Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very High	
Mean Score of COs = Total of Value			Mean Overall Score of COs = Total of Mean Score			
	Total No. of Pos	& PSOs	Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer:Mrs.N.Pothumani

Programme: B.SC GEOGRAPHY Part IV: course type: NMEC2
Semester: IV Hours: 2 P/W 30 Hrs P/S

Sub. Code : U22NMG2 Credits : 2

Title of the Paper: SOCIAL - CULTURAL GEOGRAPHY

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TU	TORIAL	ICT		
	2	1	-	1		-		
<b>PREAMBLE:</b>	<b>PREAMBLE:</b> It is Brach of Human Geography and it explains the social and cultural							
aspects of the w	aspects of the world.							
		COURSE O	UTCOME		Unit	Hrs		
At the end of th		P/S						
CO1: To under	CO1: To understand the nature and scope of social geography							
CO2: To know	the stru	cture and pro	ocess of the space	and society	2	6		
CO3: To explain	in the kn	owledge of s	socio – cultural re	gions of India	3	6		
CO4: To under	CO4: To understand the Religion and caste system of India							
	<b>CO5</b> : To know the classification of Indian language – language concentration and diversification							

## **SYLLABUS**

**UNIT I:** Nature – Scope and Content of Social and Cultural Geography.

**UNIT II:** Social space and cultural landscape – Elements of Society – Elements of Culture.

**UNIT III:** Characteristics and Classification of Races - Cultural realms of the world.

**UNIT IV**: Caste and Religion – religious groups – Caste system of India.

UNIT V:. Geography of Language – Classification of Indian language – Language Concentration and diversification.

## **BOOKS FOR REFERENCES:**

- 1. Aijazuddin Ahmad (2012), Social Geography of India –Concept Publishing Company Pvt Ltd, New Delhi.
- 2. Aijizuddin Ahmed (2007) Social Geography Rawat Publication Jaipur.
- 3. David Atkinson (2007) Cultural Geography Rawat Publication Jaipur.
- 4. G.s. Mohanty (2005) Social and Cultural Geography- Isha books.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT I		ı	
	Nature and scope of social geography	3	chalk and talk and usage of maps and atlas and PPT lecture
	Nature and scope of cultural geography	3	chalk and talk and usage of maps and atlas and PPT lecture
UNIT II		•	
	Social space and cultural landscape	3	chalk and talk and usage of maps and Atlas
	Elements of society and elements of culture	3	chalk and talk and usage of maps and atlas
UNIT III			
	Characteristics and classification of races	3	chalk and talk and usage of maps and atlas and PPT lecture
	Cultural realms of the world	3	chalk and talk and usage of maps and atlas and PPT lecture
UNIT IV	<u> </u>		<u> </u>
	Religious groups of India	3	chalk and talk and usage of maps and atlas and PPT lecture
	Caste system of India	3	chalk and talk and usage of maps and atlas and PPT lecture
UNIT V			
	Classification of Indian language	3	Group discussion, Census Report, Maps and Atlas and PPT lecture
	Language concentration and diversification	3	Group discussion, Census Report, Maps and Atlas and PPT lecture

Course Out comes	Prog	grammo	e Outco	omes (I	Pos)			Progra	amme S	pecific (	Outcome	es (PSOs	s)		Mean Scores of Cos
(Cos)	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PS O7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Mean Over							rall Sco	re						4.6

Result: The Score for this Course is 4.6 (High Relationship)

Mapping   1-20%   21-40%   41-60%   61-80%   81-100%	Mapping	1-20%		41-60%	61-80%	81-100%
--	---------	-------	--	--------	--------	---------

## DEPARTMENT OF GEOGRAPHY 2022-2023

Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very	
					High	
Mean Score of C	COs = Total of V	alue	Mean Overall Score of COs = <u>Total of Mean Score</u>			
	Total No. of Pos	& PSOs		Total N	lo. of COs	

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.M.Sirasunisa Begum

Programme: B.SC GEOGRAPHY
Semester: IV
Part IV: Course Type: SEC-I
Hours: 2 P/W 30 Hrs P/S

Sub. Code : U22S3EG1 Credits : 2
Title of the Paper: POPULATION DATA ANALYSIS

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT
	2	1	-	1	ı

**PREAMBLE:** To understand the population, growth, density, migration policies in developing countries.

countries.		
COURSE OUTCOME	Unit	Hrs
At the end of the Semester, the Students will be able to		P/S
CO1: To understand the Sources of Population data	1	6
CO2: To know the Dynamics of Population	2	6
CO3: To explain the knowledge Major consequences of migrations -	3	6
Laws of Migration - Policies on migration		
<b>CO4</b> : To understand the Population composition - Sex composition	4	6
Gender ,Age structure ,Literacy, Determinants.		
CO5: To know the Occupational composition of population	5	6

## **SYLLABUS**

- **UNIT 1:** Sources of Population data World population distribution and Density Determinants of distribution and density.
- **UNIT II:** Dynamics of Population Fertility Measures and determinants of Fertility Mortality Measures and determinants of mortality World population Growth.
- **UNIT III:** Migration- Types Determinants Major consequences of migrations Laws of Migration Policies on migration
- **UNIT IV:** Population composition Sex composition Gender Age structure Literacy Determinants.
- **UNIT V:** Occupational composition of population Determinants and world pattern Optimum Population, over population and under population.

### **BOOKS FOR REFERENCES:**

- 1. The End of World Population Growth in the 21sst century: New Challenges for Human Capital formation and Sustainable Development Lutz, W. Sanderso, w.e.and Scherbov, S. Earthscan, London 2005.
- 2. Geography and Population: Approach and Applications Clarke John, I (ed.), Pergamon Press Ltd. Oxford, 1984
- 3. Population Geography Clarke, J.1., Pergamon Press Ltd., Oxford, 1972
- 4. Population Geogjraphy: A Reader, Demko, G.J., Rose, H.M. and Schnell, G.A., McGraw HillBook Col., New York, 1970
- 5. Principles of Demography, Bogue Donald, J., John Wiley & Sone, New York, 1969 Geography of Population: World Patterns - Trewartha, G.T., John Wiley & Sons, New York, 1969
- 6. Population Geography, Wilson, M.G.A., Nelson, London, 1968.
- 7. Geography of Population, Beaujeu Gamier, Longman Group Ltd, London, 1966 Web References
- 8. https://www.thoughtco.com/population-geography-overview-1435468
- 9. <a href="https://projects.ncsu.edu/cals/course/ent425/library/tutorials/ecology/popn\_dyn.html">https://projects.ncsu.edu/cals/course/ent425/library/tutorials/ecology/popn\_dyn.html</a>
- 10. <a href="http://www.economicsdiscussion.net/theory-of-population/top-3-theories-of-population-with-diagram/18461">http://www.economicsdiscussion.net/theory-of-population/top-3-theories-of-population-with-diagram/18461</a>

UNITS	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNIT I		l	
	Sources of Population data	3	chalk and talk and usage of maps and atlas and PPT lecture
	World population distribution and Density	3	chalk and talk and usage of maps and atlas and PPT lecture
UNIT II	<u> </u>	ı	
	Dynamics of Population	3	chalk and talk and usage of maps and Atlas
	Fertility - Mortality	3	chalk and talk and usage of maps and atlas
UNIT III			
	Migration	3	chalk and talk and usage of maps and atlas and PPT lecture
	Policies and Laws of Migration	3	chalk and talk and usage of maps and atlas and PPT lecture
UNIT IV			
	Population composition	3	chalk and talk and usage of maps and atlas and PPT lecture
	Literacy	3	chalk and talk and usage of maps and atlas and PPT lecture
UNIT V	1	1	ı
	Occupational composition of population	3	Group discussion, Census Report, Maps and Atlas and PPT lecture
	Determinants and world pattern	3	Group discussion, Census Report, Maps and Atlas and PPT lecture

Course Out comes	Prog	grammo	e Outco	omes (I	Pos)			Progra	amme S	pecific (	Outcome	es (PSOs	s)		Mean Scores of Cos
(Cos)	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PS O7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
						Mea	an Ove	rall Sco	re	•	•				4.6

Result: The Score for this Course is 4.6 (High Relationship)

## DEPARTMENT OF GEOGRAPHY 2022-2023

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very	
					High	
Mean Score of CC	$Os = \frac{Total \ of \ Va}{}$	lue	Mean Overall Score of COs = Total of Mean Score			
	Total No. of Pos	& PSOs	Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Dr.A.Gandhimathi

Programme: B.SC GEOGRAPHY

Semester: V

Part III: Course Type: IX

Hours: 5 P/W 75 Hrs P/S

Sub. Code : U22CG9 Credits:5

Title of the Paper: WORLD REGIONAL GEOGRAPHY

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT
	5	2	1	1	1

**PREAMBLE:** The explains the broad regional divisions of the world in a changing world system. To appraise the students about resources: their potentials: utilization and suitability aspects. To provide for an understanding and appreciation of the mutual dependence and resource sharing.

COURSE OUTCOME	Unit	Hrs
At the end of the Semester, the Students will be able to		P/S
<b>UNIT 1 CO1</b> : know about different types of Regions – understand the specific	1	15
characteristics about vegetation, animal life of world regions		
UNIT 2 CO2: Acquire knowledge about Tropical Regions – Monsoon type – Sudan	2	15
type - Sahara type – Caribbean type		
<b>UNIT 3 CO3</b> : Analyze the Warm Temperate Regions- Mediterranean type- China type –	3	15
Tropical Desert type.		
UNIT 4 CO4: Understand the Cool Temperate Regions- British type, Siberian type and	4	15
Laurentian type.		
<b>UNIT 5 CO5</b> : Explain about the Polar Regions – high land - Tundra type	5	15

## **SYLLABUS**

UNIT –I: Definition of Region – Physical Elements – Space Relationships - Weather and Climate
 -Landforms – Hydrology – Natural Vegetation – Forest , Grasslands , Desert – The associated Animal Life – soil - Population - Economic Activities - Cultural Features

UNIT II: World Regions: Major Climatic Regions of the World – Location and Characteristics
 Equatorial Regions, Highland and Lowland Regions – Tropical Regions; Monsoons,
 Tropical Grassland and Tropical Deserts.

**UNIT III**: Warm Temperate Regions – Mediterranean – Temperate Grassland, China Type.

**UNIT IV**: Cool Temperate Regions: British Type or Marine West Coasts, Siberian Type and Laurentian Type.

**UNIT V**: Polar Regions: Highland or Ice Cap Type, Lowland or Tundra Type.

## **BOOKS FOR REFERENCES**

- 1. Gopal singh, (1996). Map work and practical geography, Vikas Publishing House Pvt.Ltd.,
- 2. Khullar, (1997). Practical Geography, Educational Publishers, New Delhi.
- 3. Monkhouse, F.J. and Wilkinson, H.R., (1989). Maps and Diagrams, B.I.Publications, New Delhi.
- 4. Pijushkanti Saha and Partha Basu, (2010). Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata.
- 5. Singh, R. L., (2005). Elements of Practical Geography, Kalyani Publishers, New Delhi.
- 6. Zulfequar Ahmad Khan, M. D., (1998). Text Book of Practical Geography, Concept Publishing Company, New Delhi.

UNITS	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNIT I		1	
	Definition of regions and physical	5	Chalk and talk, Group discussion, Maps
	elements		,Atlas and PPT lecture
	Weather and climate – landforms –	5	Chalk and talk, Group discussion, Maps
	hydrology – natural vegetations		,Atlas and PPT lecture
	Animal life- soil – economic and cultural	5	Chalk and talk, Group discussion, Maps
	features of world regions		,Atlas and PPT lecture
UNIT II	-		
	Equatorial regions, Highland and lowland	5	Chalk and talk, Group discussion, Maps
	regions		,Atlas and PPT lecture
	Tropical regions – Monsoonal type	5	Chalk and talk, Group discussion, Maps
			,Atlas and PPT lecture
	Tropical grassland and Tropical deserts	5	Chalk and talk, Group discussion, Maps
			,Atlas and PPT lecture
UNIT III			
	Mediterranean regions	5	Chalk and talk, Group discussion, Maps
			,Atlas and PPT lecture
	Temperate grass land	5	Chalk and talk, Group discussion, Maps
			,Atlas and PPT lecture
	China type	5	Chalk and talk, Group discussion, Maps
			,Atlas and PPT lecture
UNIT IV			
	British type or Marine type	5	Chalk and talk, Group discussion, Maps
			,Atlas and PPT lecture
	Siberian type	5	Chalk and talk, Group discussion, Maps
			,Atlas and PPT lecture
	Laurentian type	5	Chalk and talk, Group discussion, Maps
			,Atlas and PPT lecture
UNIT V			
	Highland or ice cape type	8	Chalk and talk, Group discussion, Maps
			,Atlas and PPT lecture and VLC
<del></del>	Tundra type	7	Chalk and talk, Group discussion, Maps
			,Atlas and PPT lecture and VLC

Course Outco mes	Programme Outcomes (Pos)				Programme Specific Outcomes (PSOs)					Mean scores of Cos					
(Cos)	PO	PO	PO	PO	PO	PO	РО	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	3	5	5	4	3	3	3	4	3	3	3	4	5	3	3.6
CO2	5	4	3	3	3	4	5	5	4	3	3	3	4	3	3.7
CO3	3	5	4	3	4	3	4	4	3	5	5	4	3	3	3.8
CO4	4	5	5	4	3	3	3	3	4	3	4	5	4	3	3.8
CO5	5	3	3	3	4	3	4	4	3	4	3	4	5	3	3.6
Mean Overall Score							3.7								

Result: The Score for this Course is 3.45 (High Relationship)

Mapping	1-20%	21-40%		41-60%	61-80%	81-100%
Scale	1	2		3	4	5
Relation	0.0-1.0	1.1-2.0		2.1-3.0	3.1-4.0	4.1-5.0
Quality	Very Poor	Poor		Moderate	High	Very High
Mean Score of COs = <u>Total of Value</u>			Mean Overall Score of COs = Total of Mean Score			
Total No. of Pos & PSOs					Total No	o. of COs

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.M.Sirasunisa Begum

Programme: B.Sc. Geography Part III:

Semester : VI Hours : 5 P/W 75Hrs P/S

Sub. Code : G62 Credits: 5

### Title of the Paper: GEOGRAPHY OF INDIA

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT
	5	2	1	1	1

**PREAMBLE:** The paper Geography of India is regional study explains the Physical, socio-economic development and distribution of resources

COURSE OUTCOME	Unit	Hrs
At the end of the Semester, the Students will be able to		P/S
<b>UNIT 1 CO1</b> : Understand the location Physiography, Drainage, Climate, and	1	15
Vegetation of India		
<b>UNIT 2 CO2</b> : Know the silent feature, problems and prospects of Agriculture.	2	15
<b>UNIT 3 CO3</b> : Know about the power resources in India.	3	15
<b>UNIT 4 CO4</b> : Understand the nature of industries and study the spatial	4	15
Distribution of manufacturing industries in India		
UNIT 5 CO5: Understand population Composition in India	5	15

## **SYLLABUS**

- **UNIT I**: Geographical setting Major Physiographic Divisions Drainage- Perennial and non-perennial rivers in India Climate Soil and Natural Vegetation.
- **UNIT II**: Agriculture: Irrigation Types and distribution Major crops and their distribution: Rice, Wheat, Sugarcane, Cotton, Groundnut Plantation Crops: Tea and Coffee Problems of Indian Agriculture.
- **UNIT III:** Minerals: Iron, Copper, Mica, Manganese, Bauxite, and Atomic minerals Power Resources: Coal, Petroleum, Natural gas, Hydro Power Multipurpose river projects Atomic power stations.
- **UNIT IV**: Industries: Distribution and production of major industries: Cotton and textiles, Iron and Steel, Sugar, Cement, Chemical and Automobile Industries.
- **UNIT V:** Population, Transport Types and Trade: Population Growth, density, distribution and problems. Transport: Land, water and air Foreign trade of India

### **BOOKS FOR REFERENCE**

- 1. Gopal Singh, (1970), A Geography of India, Atnaram & sons, New Delhi.
- 2. Khullar, D. R., (2010), India A Comprehensive Geography, Kalyani Publishers, New Delhi.
- 3. Krishnan, M.S. (1982), Geology of India and Burma, CBS Publishers, New Delhi.
- 4. Majid Hussain (2008), Geography of India, Tata McGraw Hill Publishing company Ltd., New Delhi.
- 5. Mathur, S.M. (1982), Physical Geology of India, National Book Trust, India, New Delhi.
- 6. Pal, Saroj K. (2003), Physical Geography of India A study in Regional Earth Sciences, Orient Longman Pvt. Ltd. Kolkata.
- 7. Sharma, T.C., (2003), India An Economic & Commercial Geography, Vikas Publishing House Pvt. Ltd., New Delhi.
- 8. Singh, R.L., (1977), India A Regional Geography, NGSI, Varanasi

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT 1			
	Location, Relief, , Soil	5	Maps, Atlas, VLC and PPT
	Drainage, Climate	5	Maps, Atlas, VLC and PPT
	Natural Vegetation - Unity in Diversity	5	Maps, Atlas , VLC and PPT

UNIT 11			
	Agriculture: Irrigation Types- Multipurpose Projects	5	Maps, Atlas , VLC and PPT
	Major Crops – Cultivatio and Distribution of Rice , Wheat, Cotton,	5	Maps, Atlas , VLC and PPT
	Sugarcane, Tea, Oilseeds & Tobacco.	5	Maps, Atlas , VLC and PPT
UNIT III			
	Power Resources – Coal, Petroleum, Natural Gas -	5	Maps, Atlas , VLC and PPT
	Hydro Electric Power, Atomic power –	4	Maps, Atlas , VLC and PPT
	Minerals: Iron, Manganese, Bauxite, Copper & Mica.	6	Maps, Atlas , VLC and PPT
UNIT IV			
	Industries – Iron and Steel,	5	Maps, Atlas , VLC and PPT
	Automobiles, Ship Building,	4	Maps, Atlas, VLC and PPT
	Cotton Textiles & Jute	6	Maps, Atlas, VLC and PPT
UNIT V			
	Population –Growth – Distribution – Density- Population Problems -	6	Maps, Atlas , Census Report VLC and PPT
	Transport: Land, Water	6	Maps, Atlas , VLC and PPT
	Air - Trade .	3	Maps, Atlas, VLC and PPT

Course Out comes	Programme Outcomes (Pos)							Programme Specific Outcomes (PSOs)							Mean scores of Cos
(Cos)	PO	PO	РО	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	5 5 5 5 5 5						5	5	5	5	5	5	5	5	5
CO2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	4 4 4 4 4 4 4							4	4	4	4	4	4	4	4
CO5	CO5								4						
						Mea	an Ove	rall Sco	re						4.2

Result: The Score for this Course is 3.45 (High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very High	
Mean Score	of $COs = Tot$	tal of Value N	Mean Overall Score of	of $COs = Total of M$	ean Score	
			Total No. of COs			

	Total No. of Pos &			
PSOs				
BLOOM'S TAXANOMY	INTERNAL	EXTERNAL		
KNOWLEDG	50%	50%		
Е				
UNDERSTA NDING	30%	30%		
APPLY	20%	20%		

Course Designer: Mrs.D.Rukmanidevi.

Programme: B.SC GEOGRAPHY Part III: Course Type:- XI

Semester : V Hours : 5 P/W 75 Hrs P/S

Sub. Code : U22CG11 Credits :5

Title of the Paper: **HUMAN GEOGRAPHY** 

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TU	JTORIAL	ICT					
	5	2	1	1		1					
PREAMBLE	<b>PREAMBLE:</b> Orderly description and interpretation of morphology, functions and spatial										
organization o	f human	settlements	on the earth surfa	ace							
	(	COURSE O	UTCOME		Unit	Hrs P/S					
At the end of t	he Semes	ster, the Stud	dents will be able	e to							
CO1: Nature	and scop	e: understai	nd the branches o	f Human	1	15					
Geography											
CO2: Know	the Conc	epts of Dete	erminism, Possib	lism and	2	15					
Probablism.											
CO3: Able to	analyze	Levels of C	Culture – Primitiv	ve to modern –	3	15					
World cultura	World cultural Regions.										
CO4: Explain	CO4: Explain Language, Religion, Race and Distribution 4 15										
CO5:Understand the demographic pattern, problems and related 5 15											
theories.											

### **SYLLABUS**

**UNIT-I:** Definition, Scope and Content –Branches of Human Geography – Inter-disciplinary Approach: systematic-behavioral approach

**UNIT-II:** Different Views – Concepts of Determinism, Possiblism and Probablism.

**UNIT-III:** Levels of Culture – Primitive to modern – World cultural Regions.

**UNIT-IV:** Language and Religion — language groups - Race - Criteria for Classification—Major types — Distribution.

UNIT-V:Population – Spatial Pattern of distribution – Growth, Problems of over Population – Malthusian – Optimum theory of Population – Migration – Causes – Types – Problems.

#### **BOOKS FOR REFERENCE**

- 1. Brock A Geography of Man Kind John Wiley, & Sons, New York 1994.
- 2. David M. Smith Human Geography Edward Arnold (Publishers) Ltd, London -1977.
- 3. Deblij Human Geography John Wiley, & Sons New York 1996.
- 4. Garnier Geography of Population Longmans Publications, London 1990.
- 5. Majid Husain Cultural Geography Anmol publication Pvt. Ltd., New Delhi 1994.
- 6. Majid Husain Human Geography Rawath Publications, Jaipur 2003.
- 7. Money D.C. Introduction to Human Geography University Tutorial Press Ltd., London 1972.
- 8. Specer K. Thomas Cultural Geography Anmol publication Pvt., Ltd., New Delhi 1994.

UNITS	TOPIC	Hrs/ WEEK	MODE OF TEACHING
UNIT I	<u> </u>	WEEK	
	Scope and content	5	Chalk and talk
	Definition		
	Branches	5	PPT lecture

## DEPARTMENT OF GEOGRAPHY 2022-2023

Approachs	5	PPT Lecture and Test
UNIT II		
Views – Concepts of Determinism	5	PPT lecture
Possiblism	5	PPT lecture
Probablism.	5	PPT Lecture and Test
UNIT III		
Levels of Culture – Primitive to	5	Chalk and talk -video
modern		
World cultural	5	video lecture
cultural Regions	5	PPT lecture
UNIT IV		
Language and Religion — language - religion	5	video lecture
Classification- Race	5	video lecture
Types – Distribution	5	Chalk And Talk- Test
UNIT V		
Population – distribution – Growth,	5	Chalk And Talk and PPT lecture
and Problems-		
Theory	5	Chalk And Talk
Migration	5	Video Lecture And Test

Course	Prog	Programme Outcomes (Pos)							Programme Specific Outcomes (PSOs)						Mean
Outcom															scores
es															of Cos
(Cos)	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	3	3	3	5	4	3	3	3	3	4	3	3	3	3	3.3
CO2	3	5	3	3	3	4	3	4	3	3	4	3	3	3	3.4
CO3	3	3	4	5	4	3	5	3	4	3	3	3	3	4	3.6
CO4	3	3	5	4	3	4	3	4	3	5	5	4	3	3	3.7
CO5	3	3 4 3 3 3 5							3	4	3	3	4	3	3.4
	Mean Overall Score										3.5				

Result: The Score for this Course is 3.45 (High Relationship)

### **DEPARTMENT OF GEOGRAPHY 2022-2023**

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%		
Scale	1	2	3	4	5		
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0		
Quality	Very Poor	Poor	Moderate	High	Very High		
Mean Score of CC	$Os = \frac{Total \ of \ Va}{}$	lue	Mean Overall Score of COs = Total of Mean Score				
	Total No. of Pos	& PSOs	Total No. of COs				

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Dr.J.Rosy Grace Angelene

Programme: B.SC GEOGRAPHY
Semester: V
Part III: Course Type-XII
Hours: 6 P/W 90 Hrs P/S

Sub. Code : U22CG12P Credits : 5

Title of the Paper: THEMATIC DATA ANALYSIS AND MAP INTREPRETATION

Pedagogy	Hours	Lecture	Peer	GD/VIDOES/TUTORIAL	ICT
			Teaching		
	6	2	1	2	1

## PREAMBLE:

The practical paper explains the representation of Socio-Economic Data with graph and diagrams and methods of SOI map, OS sheets map interpretation.

COURSE OUTCOME	Unit	Hrs
At the end of the Semester, the Students will be able to		P/S
<b>CO1</b> : Understand the Statistical method: One dimensional diagrams,	1	20
Two dimensional diagrams, Three dimensional diagrams, Pyramidal		
diagrams- pictorial- flow, line pie diagrams with computer assistance		
CO2: Acquire more knowledge about the drawing of isopleths-	2	20
choropleth- chorochromatic and choroschematic maps with computer		
assistance		
<b>CO3</b> : Familiar with the cartographic skill through the Methodological	3	25
signs and symbols of SOI maps.		
<b>CO4</b> : develop the interpretation skills of SOI maps and OS sheets.	4	25

### **SYLLABUS**

- **UNIT I:** Statistical method: One dimensional diagrams- Bar- Two dimensional diagrams- Rectangular, square and circle- Three dimensional diagrams cubes and sphere with computer assistance. Pyramidal diagrams- pictorial- flow, line, pie diagrams with computer assistance
- **UNIT II:** Method of representing distribution of data drawing of isopleths- choropleth-chorochromatic and choroschematic maps.
- **UNIT III:** Representation of Relief on a Block Diagram Topographic Maps: Conventional signs and symbols of SOI maps
- **UNIT- IV**: Cartographic appreciation and comparison of SOI, OS and US sheets Interpretation of SOI maps.

## **BOOKS FOR REFERENCES**

- 1. Gopal singh, (1996). Map work and practical geography, Vikas Publishing House Pvt.Ltd.,
- 2. Khullar, (1997). Practical Geography, Educational Publishers, New Delhi.
- 3. Monkhouse, F.J. and Wilkinson, H.R., (1989). Maps and Diagrams,
- B.I.Publications, New Delhi.
- 4. Pijushkanti Saha and Partha Basu, (2010). Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata.
- 5. Singh, R. L., (2005). Elements of Practical Geography, Kalyani Publishers, New Delhi.
- 6. Zulfequar Ahmad Khan, M. D., (1998). Text Book of Practical Geography, Concept Publishing Company, New Delhi.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING					
UNIT I : S	UNIT I : Statistical Method							
Statistical method: 5 Chalk And Talk ,Demonstration								
	One dimensional diagrams- Bar-		and using instruments(computer)					

## DEPARTMENT OF GEOGRAPHY 2022-2023

			CI II A 1 TE II D
	imensional diagrams- Rectangular, square	5	Chalk And Talk ,Demonstration
and cir			and using instruments (computer)
Three	dimensional diagrams – cubes and sphere –	10	Chalk And Talk ,Demonstration
	midal diagrams- pictorial- flow, line		and using instruments(computer)
, pie	diagrams with computer assistance		
UNIT II: Method	d of representing distribution of data		
draw	ring of isopleths	5	Chalk And Talk ,Demonstration
	8 1 1 1		and using instruments(computer)
chore	ochromatic and choroschematic	10	Chalk And Talk ,Demonstration
			and using instruments(computer)
maps			
	ing of isopleths with computer	5	Chalk And Talk ,Demonstration
assista	ince		and using instruments(computer)
UNIT III : Repre	sentation of Relief and symbols		
Repre	esentation of Relief on a Block	15	Using topographical sheet,
_	ram Topographic Maps		Demonstration and using chats
		10	Demonstration and using mans
Conv	entional signs and symbols of SOI	10	Demonstration and using maps
maps			
UNIT IV : Map co	omparison and interpretation		
	ographic appreciation and	10	Using SOI and US maps
	parison of SOI		
COIII	parison of SOI	1.5	11. 001 1110
05 a	nd US sheets Interpretation of SOI	15	Using SOI and US maps
	-		
maps	•		

	Prog	ramme	Outco	omes (F	Pos)			Progra	amme S	pecific (	Outcome	es (PSO	s)		Mean
Course															scores
Out															of
comes															Cos
(Cos)	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PS	
	1	2	3	4	5	6	7	1	2	3	4	5	6	O7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
						Mean	Overa	ll Score	<b>;</b>						4.75

Result: The Score for this Course is 4.75 (High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%
Scale	1	2	3	4	5
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0
Quality	Very Poor	Poor	Moderate	High	Very High
Mean Score of COs = Total of Value			Mean Overall Score of COs = Total of Mean Score		
	Total No. of Pos	& PSOs		Total No	o. of COs

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Dr. S.Usha Buvaneswari

Programme: B.Sc. Geography Part III: Course Type: DSEC

Semester : V Hours : 4 P/W 60 Hrs P/S

Sub. Code : U22DSG1A Credits: 4

Title of the Paper: GEOGRAPHY OF RESOURCES

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT
	4	2	-	1	1
DDEAMOLE	TD1		.1 1 .1 .	1 11 1.1	•

**PREAMBLE:** The paper explain the changes that occur in world resources and the meaning, use, distribution, and importance of **resources**. The geographically informed student must

understand that a "resource" is a cultural concept. A resource is any physical material						
constituting part of Earth that people need and value.						
COURSE OUTCOME	Unit	Hrs				
At the end of the Semester, the Students will be able to		P/S				
<b>CO1</b> : Know the difference of Renewable & Non- Renewable resources –	1	12				
and its Significance.						
CO2: Analyse the population Distribution and Density and understand	2	12				
Problems of Population.						
<b>CO3</b> : Understand the types of Fishing and distribution and identify the	3	12				
Forests and its conservation to know about the Cattle and Sheep rearing						
<b>CO4</b> : Know about the Agriculture – Type and Major crops	4	12				
CO5: identify the Mineral Resources and Energy Resource. Know about	5	12				
he various industries and its Distribution.						

## **SYLLABUS**

- **UNIT I:** Resources: Definition Types Renewable & Non- Renewable Significance of Resources. Land as a Resource Land Utilization and Conservation.
- **UNIT II:** Human Resource Distribution, Density and Growth Problems of Population.
- **UNIT III:** Fisheries –types, factors affecting fishing Major Fishing grounds of the world Forests Types, Distribution, Uses and Conservation Cattle and Sheep rearing.
- UNIT IV: Agriculture Types- Shifting, Sedendary -Intensive and Extensive Mixed farming
   Plantation Agriculture Major crops Rice , Wheat, Cotton, Tea and Coffee Production and Distribution
- UNIT V: Mineral Resources Iron Ore, Mica and Bauxite Energy Resources-Coal, Petroleum Natural Gas, solar, wind and tidal energy Major Manufacturing Industries Iron and Steel, Ship building and Cotton Textile Industries Production and Distribution.

### **BOOKS FOR REFERENCE:**

- 1. Berry and Chorley Atmosphere, Weather and Climate Metheun.
- Glenn T. Trewartha & Lyle H. Horn An Introduction to Climate- McGraw Hill Book Company- New Delhi - 1980.
- 3. Howard J. CritchField(1999)-General Climatology Prentice Hall of India New Delhi 1999.
- 4. Keith Smith. Principles of Applied Climatology -McGraw Hill Book Co., New york 1998.
- 5. Lal D.S. Climatology- Chaitanya Publisher's House, Allahabad 1998.
- Lal.M.Global Warming-Concerns for Tomorrow Tata McGraw Hill publishing company Ltd New Delhi - 1993.
- 7. Oliver. John E, and John J Hiddore, (2003) Climatology An Atmospheric Science Pearson Education (Singapore) PVT.Ltd, New Delhi 2003.
  - 8. Siddhartha.K. Atmosphere Weather And Climate Kisalaya Publication Pvt . Ltd New Delhi

UNITS	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNIT I			
	Resources : Definition – Types – Renewable & Non- Renewable–	6	Chalk and talk, Maps, Atlas, VLC and PPT
	Significance of Resources.	2	Chalk and talk , Maps, Atlas , VLC and PPT
	Land as a Resource – Land Utilization and Conservation.	4	Chalk and talk , Maps, Atlas , VLC and PPT
UNIT II			
	Human Resource – Distribution ,	4	Maps, Atlas , VLC and PPT
	Density and Growth –	5	Maps, Atlas , VLC and PPT

## DEPARTMENT OF GEOGRAPHY 2022-2023

	Problems of Population	3	Maps, Atlas, VLC and PPT
UNIT III			
	Fisheries –types , factors affecting fishing - Major Fishing grounds of the world	5	Chalk and talk , Maps, Atlas , VLC and PPT
	Forests – Types, Distribution , Uses and Conservation	4	Chalk and talk , Maps, Atlas , VLC and PPT
	Cattle and Sheep rearing	3	Chalk and talk , Maps, Atlas , VLC and PPT
UNIT IV			
	Agriculture – Types-	5	Maps, Atlas, VLC and PPT
	Agriculture - Major crops – Rice , Wheat, Cotton,	4	Maps, Atlas , VLC and PPT
	Tea and Coffee - Production and Distribution	3	Maps, Atlas , VLC and PPT
UNIT V			
	Mineral Resources – Iron Ore, Mica and Bauxite	3	Chalk and talk, Maps, Atlas, Census Report VLC and PPT
	<ul> <li>Energy Resources-Coal, Petroleum Natural</li> <li>Gas, solar, wind and tidal energy</li> </ul>	4	Chalk and talk ,Maps, Atlas , VLC and PPT
	Manufacturing Industries- Iron and Steel, Ship building Cotton Textile Industries- Production and Distribution	5	Chalk and talk ,Maps, Atlas , VLC and PPT

Course	Programme Outcomes (Pos) Programme Specific Outcomes (PSO						s)		Mean						
Out															scores
comes															of Cos
(Cos)	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Mean Overall Score										4.2				

Result: The Score for this Course is 4.2 (Very High Relationship)

Mapping	1-20%	21-40%		41-60%	61-80%	81-100%	
Scale	1	2		3	4	5	
Relation	0.0-1.0	1.1-2.0		2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor		Moderate	High	Very High	
Mean Score of COs = Total of Value				Mean Overall Score of COs = Total of Mean Score			
Total No. of Pos & PSOs				Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%

APPLY	20%	20%

Course Designer: Dr.J.Rosy Grace Angelene

Programme: B.Sc GEOGRAPHY Part III: DSEC

Semester : V Hours : 5 P/W 75 Hrs P/S

Sub. Code : U22DSG1B Credits :5

## Title of the Paper: AGRICULTURAL GEOGRAPHY

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT			
	5	2	1	1	1			
<b>PREAMBLE:</b> it is a branch of economic geography, explain the approaches, agricultural								
types and determinants, modernization of agriculture, green revolution and theories.								
Agricultural geo	Agricultural geography seeks to describe and explain spatial variations in agricultural							

activity over the earth's surface.		
COURSE OUTCOME	Unit	Hrs
At the end of the Semester, the Students will be able to		P/S
<b>CO1</b> : understand nature, scope and significance of agricultural	1	15
geography		

CO2: acquire knowledge about agricultural determinants modernization	2	15
of agriculture- green revolution		
<b>CO3</b> : know the significance von thunen's theory and land use and land	3	15
capability classification		
<b>CO4</b> : evaluate the agricultural productivity	4	15
CO5: understand the regionalization of agriculture	5	15

## **SYLLABUS**

- **UNIT I**: Nature scope and significance of Agricultural Geography Approaches to the study of Agricultural geography Elements of agriculture.
- **UNIT II**: Determinants of agricultural land use Physical, economic, social, institutional and technological determinants.
- **UNIT III**: Von Thunen's theory of agricultural location and its recent modifications Land use Types Land use surveys Land capability classification.
- **UNIT IV:** Measurement of agricultural productivity Crop combination Delimitation of crop combination regions Weaver Crop diversification regions.
- **UNIT** V: Agricultural regions of the world A review of Whittlessey's agricultural classification Agricultural regions of India Characteristics Agricultural Problems.

### **BOOKS FOR REFERENCES**

- 1. Basu, D.N., and Guha, G.S., (1996). Agro-Climatic Regional Planning in India (Vol. I & II). Concept Publication, New Delhi.
- 2. Grigg, D.B. (1984). Introduction to Agricultural Geography. Hutchinson, London.
- 3. Shafi, M., (2006). Agricultural Geography. Doring Kindersley India Pvt. Ltd., New Delhi.
- 4. Singh, J. and Dhillon, S.S. (1984). Agricultural Geography. Tata McGraw Hill, New Delhi.
- 5. Hussain, M. (1979). Agricultural Geography. Inter India Publications, New Delhi.
- 6. Morgan, W.B. and Munton, R.J.C. (1971). Agricultural Geography. Methuen & Co., London.
- 7. Singh, J. and Dhillon, S.S. (1995). Agricultural Geography. Tata McGraw Hill Pub. Company Ltd., New Delhi.

UNITS	TOPIC	Hrs / Week	MODE OF TEACHING		
UNIT I		•			
	Nature, scope	5	Chalk and talk and PPT		
	Significance and approaches	5	Chalk and talk and PPT		
	Elements of agricultural geography	5	Chalk and talk and PPT		
UNIT II					
	Physical ,economical land use determinants	5	Chalk and talk and PPT		
	Social and institutional determinants	5	Chalk and talk and PPT		
	Technological determinants	5	Chalk and talk and PPT		
UNIT III					
	Von thunen's Theory	5	Chalk and talk and PPT		
	Agricultural Land use	5	Chalk and talk and PPT		
	land capability and classification	5			
UNIT IV					
	Agricultural productivity determinants	5	Chalk and talk and PPT		
	Crop combination	5	Chalk and talk and PPT		
	Crop diversification regions	5	Chalk and talk and PPT		
UNIT V					

Agricultural regions of the world	5	Chalk and talk and PPT
Whittlessey's agricultural classification	5	Chalk and talk and PPT
Regions of india – characteristics - agricultural	5	Chalk and talk and PPT
problems		

Course out comes	Programme outcomes (pos)					Programme specific outcomes (PSOs)				Mean scores of Cos	
(cos)	PO1	PO2	PO3	PO4	PO5	PS O1	PS O2	PS O3	PS O4	PS O5	
CO1	4	4	4	4	4	4	4	4	4	4	4
CO2	5	5	5	5	5	5	5	5	5	5	5
CO3	5	5	5	5	5	5	5	5	5	5	5
CO4	4	4	4	4	4	4	4	4	4	4	4
CO5	4	4	4	4	4	4	4	4	4	4	4
	mean Overall score								4.4		

Result: The Score for this Course is 4.4 (very high)

			710 101 tills 00 tilse 15 (verj 111811)			
Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very	
					High	
Mean Score of COs = <u>Total of Value</u>			Mean Overall Score of COs = <u>Total of Mean Score</u>			
	Total No. of Pos	& PSOs	Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.M.Sirasunisa Begum.

Programme: B.Sc GEOGRAPHY Part:III Course Type: SEC - II
Semester: V Hours: 2 P/W 30Hrs P/S

Sub. Code : U22SEG2 Credits : 2

Title of the Paper: PRINCIPLES OF GIS AND GNSS

Pedagogy	Hours Lecture		Peer Teaching	GD/VIDOES/TUTORIAL	ICT
	2	1	-	1	-

**PREAMBLE:** The paper emphasize the knowledge about Geographical Information System & GNSS –Elements of GIS and Computer based tool for mapping and analyzing feature events on earth.

COURSE OUTCOME	Unit	Hrs
At the end of the Semester, the Students will be able to		P/S
CO1: To know about the Concepts: Definition and History of GIS	1	6
CO2: Learn and practice the Raster and Vector Data Analysis	2	6
CO3: Examine the Vector Data, Spatial Data Accuracy, Vector data Sources.	3	6
<b>CO4</b> : Identify the Historical Development of GPS System.	4	6
CO5: To analyze the Integration techniques - Hardware and Software	5	6
Platforms		

## **SYLLABUS**

- UNIT I: Basic Concepts: Definition and History of GIS Components of GIS Data
   Structure and Formats Spatial Data models: Raster and Vector Database Design –
   Linking Spatial and Non Spatial Data.
- **UNIT II:** Raster and Vector Data Analysis: Integration of Raster and Vector Data, Raster data Types, Data Structure, Data Compression, Data Files, Data Conversion.
- UNIT III: Slope Aspects, Overlay Operations and Statistical Analysis. Vector Data Topological and Non Topological Vector Data, Map Scale, Spatial Resolution, Spatial Data Accuracy, Vector data Sources.
- UNIT IV :Introduction: Historical Development GPS System overview Space Segment –
   Control Segment User Segment Recent Trends Working Principles of GPS:
   Satellite Ranging Resection; error sources Atmospheric and Ionospheric errors.
- **UNIT V**:GNSS AND GIS Integration: Integration techniques Data Focused Integration, Position focused and technology focused integration Hardware and Software Platforms GPS, GIS.

### **BOOKS FOR REFERENCES:**

- 1. Burrough, P.A. (1986). Principles of Geographical Information System for Land Resources Assessment. Clarendon Press, Oxford.
- 2.Heywood, I., Cornelius, S. and Carver, S. (1988). An Introduction to Geographical Information Systems. Addison Wiley Longmont, New York.
- 3.Burrough, P.A. and McDonnell, R. (2000). Principles of Geographical Information Systems. Oxford University Press, London.
- 4.Hofmann-Wellenhof, B., Lichtenegger, H. and Wasle, E. (2008). Global Navigational Satellite Systems (GNSS). Springer Wien, New York.
- 5. Agrawal, N.K. (2006). Essentials of GPS. Geodesy and GPS Publications, Hyderabad.
- 6.Sickle, J.V. (2008). GPS for Land Surveyors, CRC Press, Taylor & Francis Group, New York.

UNITS	TOPIC	Hrs/	MODE OF TEACHING					
		Week						
UNIT I: Ba	sic Concepts							
	Components of GIS -	2	Chalk and Talk, Demonstrate the network					
	Data Structure and		model through maps and ppt.					
	Format							
	Spatial Data models:	2	Chalk and Talk, Demonstrate the network					
	Raster and Vector		model through ppt.					
	Linking Spatial and Non	2	Chalk and Talk					
	Spatial Data							
UNIT II: Ra	aster and Vector Data Analy	sis						
	Integration of Raster and	2	Chalk and Talk					
	Vector Data							
	Data Structure, Data	2	Demonstrate the through ppt. Group					
	Compression		Discussion.					

	Data Files, Data	2	Demonstrate the ppt.				
	Conversion						
UNIT III: St	atistical Analysis						
	Slope Aspects, Overlay	2	Demonstrate the network through maps.				
	Operations						
	Topological and Non	2	Validate the network model through				
	Topological Vector Data		practical assignment.				
	Spatial Resolution	2	Establish the network model through				
			practical assessment.				
UNIT IV: In	troduction- GNSS						
	GPS System overview	2	Demonstrate through ppt.				
	Working Principles of	2	Establish the model through ppt.				
	GPS						
	Atmospheric and	2	Chalk and Talk, Reveal the model through				
	Ionospheric errors.		maps and ppt.				
UNIT V: GI	NSS AND GIS Integration						
	Integration techniques	2	Chalk and Talk.				
	Data Focused Integration	2	Demonstrate the process through ppt.				
	Hardware and Software	2	Self study and group discussion.				
	Platforms						

Course out comes	Program (pos)	mme outc	omes			Programme specific outcomes (PSOs)					Mean scores of Cos
(cos)	PO1	PO2	PO3	PO4	PO	PSO	PSO	PSO	PSO	PSO	
					5	1	2	3	4	5	
CO1	3	4	3	4	3	3	4	4	3	3	3.4
CO2	4	3	5	4	3	4	5	3	5	4	4
CO3	5	4	3	4	4	4	5	4	5	4	4.2
CO4	4	3	5	4	5	4	5	4	5	5	4.4
CO5	3	4	4	4	3	3	4	3	3	3	3.4
mean Overall score										3.8	

Result: The Score for this Course is 3.8 (High relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very	
					High	
Mean Score of C	COs = Total of	<u>Value</u>	Mean Overall Score of COs = Total of Mean Score			
	Total No. of l	Pos & PSOs		Total No	o. of COs	

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Dr.J.Rosy Grace Angelene.

Programme: B.SC GEOGRAPHY Part III: Course Type: SEC - III

Semester : V Hours : 2P/W 30 Hrs P/S

Sub. Code : U22SEG3P Credits : 2

# Title of the Paper: FIELD SURVEY AND MAPPING ANALYSIS

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORI	AL	ICT			
	2	1	-	1		-			
<b>PREAMBLE:</b>	<b>PREAMBLE:</b> The paper emphasize the knowledge about Field Survey & mapping								
techniques base	ed on suit	table analysi	s.	•					
-									
		COURSE	OUTCOME		Unit	Hrs			
At the end of th	ne Semes	ter, the Stud	ents will be able to	)		P/S			
CO1: Underst	and the I	Ethics, Fram	ing Research Que	stions, Objectives	1	7			
CO2: Examine	the Sele	ection of field	d and identification	n of the topic	2	7			
CO3: Apply th	e knowle	dge to Field	Techniques		3	8			
CO4: Understa	CO4: Understand to measure the Qualitative / Quantitative Data								
Analysis	Analysis								
	SYLLABUS								

- **UNIT I**: Field work: Ethics, Framing Research Questions, Objectives and Hypothesis; Literature Review; Preparing Sample Questionnaire.
- **UNIT II**: Selection of field and identification of the topic Physical Survey / Socio-Economic survey / Rural / Urban / Coastal / Environmental.
- UNIT III: Field Techniques Merits, Demerits and Selection of the Appropriate Technique / geospatial technology / spatial sampling / questionnaire survey / Focused Group Discussions
- **UNIT IV**: Data Analysis: Qualitative / Quantitative Data Analysis; spatial data Representation Techniques Spatial Analysis Field Report.

### **BOOKS FOR REFERENCES:**

- 1. Creswell J., 1994. Research Design: Qualitative and Quantitative Approaches Sage Publications.
- 2. Dikshit, R. D. 2003. The Art and Science of Geography: Integrated Readings. Prentice-Hall of India, New Delhi.
- 3. Evans M., 1988. Participant Observation: The Researcher as Research Tool in Qualitative Methods in Human Geography, eds. J. Eyles and D. Smith, Polity.
- 4. Mukherjee, Neela, 1993. Participatory Rural Appraisal: Methodology and Application. Concept Publs. Co., New Delhi.
- 5. Mukherjee, Neela, 2002. Participatory Learning and Action: with 100 Field Methods. Concept Publs. Co., New Delhi.
- 6. Research Reports: A Basic Guide for Students of the Social and Behavioural Sciences.
- 7. Robinson A., 1998. Thinking Straight and Writing That Way, in Writing Empirical
- 8. Stoddard R. H., 1982. Field Techniques and Research Methods in Geography, Kendall/Hunt.
- 9. Wolcott, H., 1995. The Art of Fieldwork. Alta Mira Press, Walnut Creek, CA.

UNITS	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNIT I F	ield work		
	Framing Research Questions,	4	Demonstration
	Objectives		
	Preparing Sample Questionnaire	3	Chalk And Talk
UNIT II	: Selection of field		
	Physical Survey		Chalk And Talk
	•	3	
	Socio-Economic survey etc.,	4	Chalk And Talk ,Demonstration and
	-		using instruments
UNIT III	: Field Techniques	·	·

## DEPARTMENT OF GEOGRAPHY 2022-2023

Selection of the Appropriate	4	Demonstration and using instruments
Technique		
Spatial sampling / Questionnaire	4	Chalk And Talk ,Group Discussion
survey		
UNIT IV: Data Analysis		
Spatial data Representation	4	Demonstration and using instruments
Field Report	4	Group Discussion

Course	Progr	ramm	e Outco	omes (l	Pos)			Programme Specific Outcomes (PSOs)					Mean		
Out															scores
comes															of
(Cos)															Cos
	PO	P	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	O	3	4	5	6	7	1	2	3	4	5	6	7	
		2													
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Mean Overall Score											4.75			

Result: The Score for this Course is 4.75 (Very High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%		
Scale	1	2	3	4	5		
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0		
Quality	Very Poor	Poor	Moderate	High	Very		
					High		
Mean Score of CC	Os = Total of Va	lue	Mean Overall Score of COs = Total of Mean Score				
	Total No. of Pos	& PSOs		Total No	o. of COs		

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Dr.J.Rosy Grace Angelene.

Programme: B.SC GEOGRAPHY
Semester: VI
Part III: Course Type:XIII
Hours: 6 P/W 90 Hrs P/S

Sub. Code : U22CG13 Credits :5

Title of the Paper: **SETTLEMENT GEOGRAPHY** 

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT
	6	2	1	2	1

## **PREAMBLE:**

Orderly description and interpretation of morphology, functions and spatial organization of human settlements on the earth surface

COURSE OUTCOME	Unit	Hrs P/S
At the end of the Semester, the Students will be able to		
<b>CO1</b> : Nature and scope : to understand the location size and growth has	1	18
related with nature of Settlements.		
<b>CO2</b> : Rural settlements : space bound social organization varying from an	2	18
isolated farmstead		
<b>CO3</b> : Urban settlements: to study the social organization has much greater	3	18
scope		
CO4: Urban morphology: examine the concerned with form, structure	4	18
and functions of an area		

CO5:Understand the demographic pattern and problems of urban areas 5 18

## **SYLLABUS**

- **UNIT –I:** Nature and Scope Types of Settlements- Rural and Urban
- **UNIT –II:** Rural Settlements Locational factors Rural Settlement Types and Patterns rural service centers.
- **UNIT –III:** Urban Settlements concept Site & Situation Functional classification of towns Factors for
  - Urban Growth Urbanization Urbanization in India.
- **UNIT –IV:** Urban Morphology Urban Land Use Models Concentric Zone Theory Sector Theory Multiple Nuclei Theory.
- **UNIT –V:** Urban Demography- Urban Problems Slums Transport Pollution Urban Planning.

### **BOOKS FOR REFERENCE**

- 1. Everson J.A & Fitz Gerald B.P-Concepts in Geography- Settlement Patterns-Longman Group Ltd, England-1969.
- 2. Gohcheng Leong, Gillion c.Morgon Human & Economic Geography Oxford University press, Oxford 1995.
- 3. Johnson J.H. Urban geography An Introductory Analysis Pergamon Press, London 1967.
- 4. Majid Husain Urban Geography Anmol Publications Pvt Ltd, New Delhi 1994.
- 5. Mandal .R.B Urban Geography A Text book Concept publishing Company, New Delhi 2000.
- 6. Mayer H.M & Kohn C.F Readings in Urban Geography Chicago Printing Press, Chicago 1967.
- 7. Misra H.N. Rural Geography Heritage Publishers, New Delhi 1987.
- 8. Money D.C. Introduction to Human Geography Evan Brothers, London 1967.
- 9. Sinha S.P. Faguni Ram, Manager Prasad, Hari Ram Nangalia Instant Encyclopaedia of Geography of Urban and Rural Geography Mittal Publications, New Delhi 1993.
- 10. Singh R.L. Reading in Rural Settlement Geography Kalyani Publishers, New Delhi 1979.

UNITS	TOPIC	Hrs / Week	MODE OF TEACHING
UNIT 1		· · · · · ·	
	Nature and Scope	6	Chalk and talk
	Types of Settlements	6	PPT lecture and student seminar
	Rural and Urban	6	PPT and video lecture
UNIT 11			
	Rural Settlements Locational factors	6	Chalk and talk -test
	Rural Settlement Types	6	PPT lecture and student seminar
	Patterns	6	PPT lecture
UNIT II			
	Urban Settlements –	6	Chalk and talk -video
	Site & Situation		
	Functional classification	6	PPT, Chalk and talk lecture
	Urbanization	6	video lecture-test
UNIT IV	T .		

	Urban Morphology –	6	PPT lecture
	Morphology		
	Land Use Models	6	PPT lecture and student seminar
	Theory.	6	PPT lecture
UNIT V			
	Demography and Problems –	6	PPT lecture
	Demography		
	Problems	6	Video lecture
	Planning	6	Reference and video lecture

Course Out	Programme Outcomes (Pos)								Programme Specific Outcomes (PSOs)						Mean scores
comes			1		1	1	1		1	1	1	1	1	1	of Cos
(Cos)	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	3	5	5	4	3	3	3	4	3	3	3	4	5	3	3.6
CO2	5	4	3	3	3	4	5	5	4	3	3	3	4	3	3.7
CO3	3	5	4	3	4	3	4	4	3	5	5	4	3	3	3.8
CO4	4	5	5	4	3	3	3	3	4	3	4	5	4	3	3.8
CO5	5	3	3	3	4	3	4	4	3	4	3	4	5	3	3.6
	Mean Overall Score											3.7			

Result: The Score for this Course is 3.45 (High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%		
Scale	1	2	3	4	5		
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0		
Quality	Very Poor	Poor	Moderate	High	Very		
					High		
Mean Score of CC	$Os = \frac{Total \ of \ Va}{}$	lue	Mean Overall Score of COs = Total of Mean Score				
	Total No. of Pos	& PSOs	Total No. of COs				

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Dr.J.Rosy Grace Angelene

Programme: B.SC GEOGRAPHY (UG) Part III: XIV

Semester : VI Hours : 5 P/W 75 Hrs P/S

Sub. Code :U22CG14 Credits : 5

Title of the Paper: PRINCIPLES OF REMOTE SENSING

Title of the Paper: FRINCIPLES OF REMOTE SENSING										
Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIA	L	CT				
	5	2	1	1	1					
PREAMBLE:	<b>PREAMBLE:</b> The paper emphasize the knowledge about Remote Sensing –Elements of									
Remote Sensing	Remote Sensing and Computer based tool for mapping and analyzing feature events on									
earth										
		COURSE	OUTCOME		Unit	Hrs				
At the end of the	ne Semest	ter, the Stude	ents will be able t	0		P/S				
CO1: Acquisi	tion of in	formation al	bout an object- ar	ea without making	1	15				
physical contac	t by air c	rafts and sat	ellite.							
CO2: To unde	rstand the	e Elements o	of remote sensing	system, sensing of	2	15				
emitted energy	and the u	ise of non- ii	maging sensors							
CO3: Examine	CO3: Examine the air photos through sophisticated methods 3 15									
CO4: Refers to	the stru	cture of the	instruments has n	nounted	4	15				
CO5:To mana	ge the spa	atial data wi	th suitable applica	ations	5	15				

### **SYLLABUS**

- **UNIT I**: Remote Sensing: Definition and types: Aerial, Satellite and Radar, Development of Space Programs.
- **UNIT II**: Remote Sensing Processes: Sources of Energy, Electromagnetic Radiation (EMR), Electromagnetic Spectrum, Atmospheric Windows Energy Interaction with Atmosphere and Earth.
- **UNIT III**: Platforms, Types of Platforms and its Characteristics Sensor: Active and Passive, Optical Mechanical Scanners and Push-Broom Scanners.
- **UNIT IV**: Fundamentals of Aerial Remote Sensing: Components of Aerial Camera, Types of Aerial Photographs Elements of Photo Interpretation.
- **UNIT V:** Fundamentals of Satellite Remote Sensing: Types of Satellites: Geo Stationary and Sun Synchronous Satellites IRS Series Resolution: Spatial, Spectral, Radiometric and Temporal.

### **BOOKS FOR REFERENCES:**

- 1. Agarwal C.S. and P.K. Garg-Text Book of Remote Sensing Wheeler publishers, New Delhi 2000
- 2. Bhatta . B Remote Sensing and GIS Oxford University Press, New Delhi 2008.
- 3. Campbell, James.B Introduction to Remote Sensing The Guild Press New york 1996
- 4. Curran.p Fundamentals of Remote Sensing Longman London 1990.
- 5. Chouhan T.S. & Josi K.N. Applied Remote Sensing and Photo Interpretation Vigyan Prakashan Jodhpur 1996
- 6. Kang- Tsung Chang Introduction to Geographic Information Systems Published by McGraw Hill, A Business Unit of the McGraw Hill Companies, Newyork 2002
- Kudral M.K., Dr. Nag. P Digital Remote sensing Concept of Publishing Company, New Delhi 1998
- 8. Lillesand .T.M. and Kiefer R. W. Remote Sensing and Image Interpretation, Fourth Edition, John wiley & Sons, Inc New york 2000.
- 9. Mathur P.M. Computer Application in Geography, Weliey 1991
- Misra .R.P. Ramesh .A Fundamentals of Cartography- Concept Publishing Company, New Delhi 2002
- 11. Narayan.L.R.A Remote Sensing and its Applications Universities press.. 1999.
- 12. Patel.A.N. and Surendra Singh Remote Sensing Principles an Application Scientific Publishers (India) Jodhpur 1999.
- 13. Pradeep Kumar Dictionary of Geographical Information Systems Bio Tec Books, 1123/74, Trinagar Delhi 2007
- 14. Rampal, K.K Hand Book of Aerial Photography and Interpretation Concept Publishing Company, New Delhi 1999.
- 15. Barrett, E.C. and Curtis, L.F. (1992). Introduction to Environmental Remote Sensing. Chapman and Hall Publications, London.
- 16. Campbell, J.B. and Wynne, R.H. (1987). Introduction to Remote Sensing. The Guilford Press, New York.
- 17. Lillesand, T.M. and Kiefer, R.W. (1987). Remote Sensing and Image Interpretation. John Willy and Sons, New York.
- 18. Lueder, D.R. (1959). Aerial Photographic Interpretation— Principles and Applications. McGraw Hill Book Co., New York.
- 19. Wolf, P.R. (1974). Elements of Photogrammetry: with Air Photo Interpretation and Remote Sensing. McGraw Hill Book Co., New York.

UNITS	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNIT I R	emote Sensing		
	Remote sensing Definition	6	Chalk & talk
	Scope	6	Video lecture and student seminar
	Historical development	6	PPT lecture
UNIT II- R	Remote Sensing Processes		
	Remote Sensing System	6	Chalk & talk
	Energy sources		
	– EMR – Spectrum-	6	PPT lecture

	Interaction energy	6	Video lecture and student seminar
UNIT III	- Platforms	I	
	Platforms – Sensor System	6	Chalk & talk and student PPT
	LAND SAT System – SPOT System	6	PPT lecture
	IRS Series	6	e-content and practical assessment
UNIT IV	Aerial Remote Sensing:		
	Components of Aerial Camera	6	PPT lecture
	Types of Aerial Photographs	6	PPT lecture and student seminar
	Photo Interpretation	6	PPT And Video Lecture -Test
UNIT V -	Satellite Remote Sensing		
	Types of Satellites	6	PPT And Video Lecture
	IRS Series	6	PPT And Video Lecture
	Resolution	6	Video Lecture / Group Discussion

Course Out comes	Programme Outcomes (Pos)							Programme Specific Outcomes (PSOs)						Mean scores of Cos	
(Cos)	РО	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	4	5	3	3	4	4	3	5	4	3	5	4	3	5	3.9
CO2	5	4	3	3	3	4	5	4	3	5	3	4	5	3	3.9
CO3	5	3	3	4	4	3	3	3	4	5	5	4	3	3	3.7
CO4	3	3	4	5	4	5	4	3	4	4	5	4	3	3	3.9
CO5	5	4	3	4	5	4	5	4	4	3	3	4	5	3	4.0
												3.9			

Result: The Score for this Course is 3.9 (High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%
Scale	1	2	3	4	5
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0
Quality	Very Poor	Poor	Moderate	High	Very
					High
Mean Score of COs = <u>Total of Value</u>		Mean Overall Score of COs = <u>Total of Mean Score</u>			
Total No. of Pos & PSOs		Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Dr.J.Rosy Grace Angelene

Programme: B.Sc GEOGRAPHY
Semester: VI
Part III: Course Type:XV
Hours: 5 P/W 75Hrs P/S

Sub. Code : U22CG15P Credits : 4

Title of the Paper: AERIAL PHOTO AND SATELLITE IMAGE INTERPRETATION

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TU	ΓORIA	ICT		
				L				
	5	3	-	1		1		
<b>PREAMBLE:</b>	Analysi	s of physical	data through pr	ofiles – drainage patt	ern - st	ream order		
and analysis an	d represe	ntation of cl	imatic data. Thi	s method explains the	spatial			
characteristics of	of the ear	th/part of th	e earth.					
		COURSE (	OUTCOME		Unit	Hrs P/S		
At the end of the	At the end of the Semester, the Students will be able to							
CO1: Understa	1	18						
scale, di	istance, h	eight and ar	ea.					
CO2: Underst	tand diffe	erent analysi	s of Interpretat	ion of single vertical	2	18		
photogr	aph – Int	erpretation o	of stereo pair					
CO3: To ki	now the	technique	es of Margin	al information of	3	19		
satellite	satelliteimages –Elements of image Interpretation.							
CO4: To identi	<b>CO4</b> : To identify the Interpretation of resources and weather satellite							
images	– image o	classification	ı					
			SYLLABUS	3				

- **UNIT -1:** Marginal information of aerial photographs Elements of aerial photographs Determination of scale, distance, height and area.
- **UNIT -II:** Stereovision test using pocket stereoscope and mirror stereoscope Interpretation of single vertical photograph Interpretation of stereo pair
- **UNIT -III:** Marginal information of satellite images Elements of image Interpretation.
- **UNIT -IV:** Interpretation of satellite images Interpretation of resources and weather satellite images image classification

## **BOOKS FOR REFERENCES**

- 1. Barrett, E.C. and Curtis, L.F. (1992). Introduction to Environmental Remote Sensing. Chapman and Hall Publications, London.
- 2. Campbell, J.B. and Wynne, R.H. (1987). Introduction to Remote Sensing. The Guilford Press, New York.
- 3. Lillesand, T.M. and Kiefer, R.W. (1987). Remote Sensing and Image Interpretation. John Willy and Sons, New York.
- 4. Lueder, D.R. (1959). Aerial Photographic Interpretation— Principles and Applications. McGraw Hill Book Co., New York.
- 5. Wolf, P.R. (1974). Elements of Photogrammetry: with Air Photo Interpretation and Remote Sensing. McGraw Hill Book Co., New York.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT I	<u>I</u>	VVCCK	I
	Elements of aerial photographs	9	Demonstration with aerial photo.
	Determination of scale, distance, height and area.	9	Demonstration with aerial photo.
UNIT II			
	Stereovision test using pocket stereoscope and mirror stereoscope	9	Demonstration with aerial photo and stereo pair
	Interpretation of single vertical photograph Interpretation of stereo pair	9	Demonstration with aerial photo and stereo pair
UNIT III	1	ı	
	Marginal information of satellite images	9	Demonstration with topographical maps
	Elements of image interpretation	10	Demonstration with aerial photos.
UNIT IV		l	1.1
	Interpretation of resource satellite images	8	Demonstration with aerial photos.
	Weather satellite interpretation	8	Demonstration with meteorological report
	Image classification	4	Demonstration with meteorological report.

Cours	Progr	amme	outcon	nes		Progra	Programme specific outcomes				
e	(pos)					(PSOs)	(PSOs)				scores of
out											Cos
comes	PO1	PO1 PO2 PO3 PO4 PO5					PSO2	PSO3	PSO4	PSO5	
(cos)											
CO1	4	4	4	4	4	4	4	4	4	4	4
CO2	4	4	4	4	4	4	4	4	4	4	4
CO3	5	5	5	4	5	5	4	5	4	5	4.7
CO4	5	4	5	4	5	5	5	5	5	5	4.8
	mean Overa								•		4.375

Result: The Score for this Course is 4.375 (very high)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very	
					High	
Mean Score of CC	Os = Total of Value		Mean Overall Score of COs = <u>Total of MeaScore</u>			
	Total No. of Pos	& PSOs	Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Dr. S.Usha Buvaneswari

**Programme: B.SC GEOGRAPHY** Part III: Course Type:DSEC:II Hours : 5 P/W 75 Hrs P/S Semester : VI

Sub. Code : U22DSG2A Credits: 4

Title of the Paper: GEOGRAPHY OF TAMILNADU GD/VIDOES/TUTORIAL Peer Teaching Lecture

					_		
Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTOR	RIAL	ICT	
	5	2	1	1		1	
<b>PREAMBLE:</b>	Geograph	y of Tamil Na	du is a part of Region	al Geography explains	the Phys	sical,	
socio-economic	develop	ment and dis	stribution of resou	rces of Tamil Nadu			
		COURSE (	OUTCOME		Unit	Hrs	
At the end of th	e Semest	ter, the Stude	ents will be able to	)		P/S	
CO1: Identify t	he locati	on, Relief, D	Prainage, Climate,	Types of Soils	1	15	
and Forest of Tamil Nadu							
<b>CO2</b> : Examine the distribution of various forests, livestock and fisheries						15	
in Tamil I	Vadu						
CO3: Analyse	the irriga	tion and agr	icultural resources	in Tamil Nadu	3	15	
CO4: Knowled	ge about	the different	t types mineral ar	nd industrial	4	15	
resources	in Tamil	Nadu					
CO5: Understa	5	15					
Nadu and	Nadu and the various kinds of transportation like land, water and						
air and tra	ıde		_				
			CVITADIIC				

# **SYLLABUS**

**UNIT 1**: Location and Extend: Administrative units – Major relief features Major rivers – Climate: temperature, Seasonal and Annual rainfall distribution, Soil: types and their distribution.

- **UNIT II**: Forest, Livestock and Fisheries: Types and distribution, forest products, Livestock: cattle, sheep, dairying and fisheries-inland and deep-sea fishing.
- **UNIT III**: Irrigation and Agriculture Resources: types and distribution canal, tank and well irrigation, Agriculture: distribution and production of rice, cotton, sugarcane, and rain fed crops, oil seeds, tea and coffee.
- **UNIT IV:** Mineral and Industrial Resources: General distribution and production. Power resources: Hydel, thermal, atomic and wind power, Industries: distribution and production of cement, sugar, cotton, automobile and paper.
- **UNIT V**: Transport: Development and distribution of roads, railways, air and sea transportation Important ports, Population growth and distribution of rural and urban population.

## **BOOKS FOR REFERENCES**

- 1. Kumaraswamy, S.V. (2014). Geography of Tamil Nadu (Tamil Edition), Sakthi Abirami Pathipagam, Coimbatore.
- 2. SHBoTN (2004). Statistical Hand Book of Tamil Nadu. Department of Economics and Statistics, Government of Tamil Nadu, Chennai.
- 3. TNEA (2014). Tamil Nadu An Economic Appraisal 2011-12 to 2013-14. Department of Evaluation and Applied Research, Chennai.
- 4. SCRoTN (2004). Season and Crop Report of Tamil Nadu for the Agricultural Year 2003-2004. Department of Economics and Statistics, Chennai.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT 1		1	ı
	Location - Relief -administrative units	5	Group discussion, Maps and Atlas
	Major rivers - climate	5	Group discussion, Maps and Atlas
	Rainfall and soil distribution	5	Group discussion, Maps and Atlas
UNIT 11		ı	1
	Forest – types – products	5	chalk and talk and usage of maps and Atlas
	Livestock types and distribution	5	chalk and talk and usage of maps and atlas
	Fisheries and types	5	chalk and talk and usage of maps and atlas
UNIT III			
	Irrigation types	5	Maps, Atlas and VLC
	Distribution of rice, cotton, sugarcane	5	Maps, Atlas and VLC
	Rainfed crops, oil seeds, tea and coffee	5	Maps , Atlas and VLC
UNIT IV		ı	
	General distribution of minerals	5	chalk and talk and usage of maps and atlas and PPT lecture
	Power resources like Hydel, thermal, atomic and wind power	5	chalk and talk and usage of maps and atlas and PPT lecture
	Industries distribution of cement, sugar, cotton, automobile and paper	5	chalk and talk and usage of maps and atlas and PPT lecture
UNIT V	•	•	

## DEPARTMENT OF GEOGRAPHY 2022-2023

Development of transport system	5	Group discussion, Census Report, Maps and Atlas and PPT lecture
Distribution of roads, railways, air and sea transportation	5	Group discussion, Census Report, Maps and Atlas and PPT lecture
Population – growth and distribution of rural and urban population	5	Group discussion, Maps and Atlas and PPT lecture

Course Out comes	Progr	ramme (	Outcom	es (Pos	)			Programme Specific Outcomes (PSOs)						Mean scores of Cos	
(Cos)	PO	PO2	PO3	PO4	PO5	PO6	PO7	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1							1	2	3	4	5	6	7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Mean Overall Score														4.6

Result: The Score for this Course is 4.6 (High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very High	
Mean Score of CO	$Os = \frac{Total \ of \ Va}{}$	<u>lue</u>	Mean Overall Score of COs = Total of Mean Score			
	Total No. of Pos	& PSOs		Total No	o. of COs	

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.M.Sirasunisa Begum

Programme: B.SC GEOGRAPHY Part III: DSEC-II

Semester : VI Hours : 5 P/W 75 Hrs P/S

Sub. Code :U22DSG2B Credits : 4
Title of the Paper: BIO - GEOGRAPHY

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT
	5	2	1	1	1

**PREAMBLE:** The paper emphasize the knowledge about the Bio – Geography and its explains the interrelations between Biotic and Abiotic elements of the Eco-system. Types of the Ecosystem and Environmental Management.

COURSE OUTCOME	Unit	Hrs
At the end of the Semester, the Students will be able to		P/S
CO1: Understand the Definition Scope, Origin of Flora and Fauna-	1	15
Distribution of plant life on the Earth.		
CO2: To understand The Basic principles, food chain and concept of Biome,	2	15
Eco – tone and community.		
CO3: Analysis Biodiversity, Habitat decay, need for conservation and process	3	15
of Desertification and its Consequences.		
<b>CO4</b> : Understand the World Biome Topical forest and grasslands, Temperate	4	15
grassland and Tropical Desert		
CO5: understand the Ecological and Environmental Managements	5	15

# **SYLLABUS**

- **UNIT I:** Bio-geography: Definition, Scope and significance Origin of Fauna and Flora-Plants and Animal evolution throughout the geological times- distribution of plant life on the earth.
- **UNIT II:** Basic Ecological Principles-Tropical level and food chain. Concepts of Biome, Eco-tone and community.
- **UNIT III:** Bio-Diversity: Problems of Extinction of plant and animal life-Habitat decay and need for conservation-Process of Desertification and its Consequences.
- **UNIT IV**: World Biomes: Major Biomes Tropical forest Tropical Grasslands Temperate Grasslands and Tropical Deserts.
- **UNIT V:** Ecological and Environmental Managements: Study of Ecological regions of Himalayas and the Western-Ghats- Conservation and Management.

#### **BOOKS FOR REFERENCES:**

- 1. Robinson, H.(1972). Biogeography. Macdonald and Evans Publication, London.
- 2. Singh, S. (1991). Environmental Geography. Prayag Pustak Bhawan, Allahabad.
- 3. Pears, N. (1993). Basic Biogeography. Longman Publicaions, London.
- 4. Newbigin, M.(1968). Plant and Animal Geography. Geography. Egmont Books Ltd.,
- 5. Saxema, H.M. (2004). Environmental Geography (2<sup>nd</sup> Edition). Rawat Publications, Jaip.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT I			
	Bio-geography: Definition, Scope and significance	5	Chalk & talk
	Origin of Fauna and Flora-Plants and Animal evolution	5	Video lecture and Map
	Distribution of plant life on the earth.	5	Chart, PPT
UNIT II			
	Basic Ecological Principles-Tropical level and food chain	5	Chalk & talk
	Concepts of Biome,	5	Chart and PPT
	Eco-tone and community.	5	Video lecture and student seminar
UNIT III			

Bio-Diversity: Problems of	5	Chalk & talk and student PPT
Extinction of plant and animal life		
Habitat decay and need for	5	PPT lecture
conservation		
Process of Desertification and its	5	Chalk and talk
Consequences.		
World Biomes: Major Biomes	5	PPT lecture
Tropical forest – Tropical	5	PPT lecture and student seminar
Grasslands		
Temperate Grasslands and Tropical	5	Map and Chalk and Talk
Deserts.		
Ecological and Environmental	5	PPT And Video Lecture
		111111111111111111111111111111111111111
ivianagements		
Study of Ecological regions of	5	PPT And Video Lecture
Himalayas and the Western-Ghats-		
Conservation and Management	5	Group Discussion
	Extinction of plant and animal life Habitat decay and need for conservation Process of Desertification and its Consequences.  World Biomes: Major Biomes Tropical forest – Tropical Grasslands Temperate Grasslands and Tropical Deserts.  Ecological and Environmental Managements Study of Ecological regions of Himalayas and the Western-Ghats-	Extinction of plant and animal life Habitat decay and need for conservation Process of Desertification and its Consequences.  World Biomes: Major Biomes  Tropical forest – Tropical Grasslands  Temperate Grasslands and Tropical Deserts.  Ecological and Environmental Managements  Study of Ecological regions of Himalayas and the Western-Ghats-

Course	Course   Programme Outcomes (Pos)   Programme Specific Outcomes (PSOs)										Mean				
Out	!														scores
comes															of Cos
(Cos)	PO1	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
		2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	4	5	3	3	4	4	3	5	4	3	5	4	3	5	3.9
CO2	5	4	3	3	3	4	5	4	3	5	3	4	5	3	3.9
CO3	5	3	3	4	4	3	3	3	4	5	5	4	3	3	3.7
CO4	3	3	4	5	4	5	4	3	4	4	5	4	3	3	3.9
CO5 5 4 3 4 5 4 5 4 3 3 4 5 3									4.0						
	Mean Overall Score											3.9			

Result: The Score for this Course is 3.9 (High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%
Scale	1	2	3	4	5
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0
Quality	Very Poor	Poor	Moderate	High	Very High
Mean Score of	TCOs = Total of	Value	Mean Overall Score	of $COs = Total of M$	lean Score
	Total No. of I	Pos & PSOs		Total No	o. of COs

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%

APPLY	20%	20%

Course Designer: Mrs.D.RukmaniDevi

Part III: Course Type :DSEC-III Hours : 5 P/W 75Hrs P/S **Programme : B.SC GEOGRAPHY** Semester : VI

Sub. Code: U22DSG3A **Credits:4** 

Title of the Paper: GEOGRAPHY OF ASIA

	1	1	1	T		
Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT	
	5	2	1	1	1	
<b>PREAMBLE</b>	: The pap	per emphas	sis the student to	understand physical conditi	ons, ec	onomic
and commerci	al devel	opment of	Asia and the imp	pact of man and environment	al relat	ionship
related.						
		COUF	RSE OUTCOME	$\Xi$	Unit	Hrs
At the end of t	he Semes	ster, the Stu	idents will be abl	le to		P/S
CO1: To know	w the ide	a about the	Physical Landscape	e: Location-importance of its	1	15
location	- Asia is a	continent of	contrast – Political o	livisions - Physiographic division		
CO2: To unde	rstand So	il: types, cha	racteristics and prob	lems – Agricultural determinants	2	15
- Major	crops and o	distribution -	Asia	-		
CO3: To expla	ain the Mi	nerals and In	dustries, major indus	stries and their location - problems	3	15
and futu	re.			_		
CO4: Acquire more knowledge about the Transport and Trade						15
CO5: To understand the Population: distribution, population pyramids, problems and						15
policies	with case s	studies and N	atural and Human H	azards - Asia in future.		

## **SYLLABUS**

- **UNIT-1**: Physical Landscape: Location-importance of its location Asia is a continent of contrast Political divisions Physiographic divisions Drainage Climate Natural vegetation.
- **UNIT-II**: Soil and Agriculture: Soil: types, characteristics and problems Agricultural determinants Major crops and distribution Agricultural problems and sustainable agriculture.
- **UNIT-IIII**: Minerals and Industries: Minerals: location, distribution and issues Power resources Industries: major industries and their location problems and future.
- **UNIT-IV**: Transport and Trade: Transport: types and major routes Major ports and harbors Tourism Trade: major imports and exports.
- **UNIT-V**: Population, Urbanization and Recent Issues: Population: distribution, population pyramids, problems and policies with case studies -Languages Urbanization: current status and urban problems Natural and Human Hazards Asia in future.

#### **BOOKS FOR REFERENCES**

- Douglas.L.J., (2009) World Regional Geography, 10thEdition, Pearson Education, Inc., New Jersey.
- 2. Hussain M. (2015) World Geography, 5thEdition, Rawat publications, Jaipur.
- 3. Alka Gautam . Advanced Economic Geography Saharda Pustak Bhawan Allahabad -2010
- 4. Bergsmark.D.R. Economic Geography of Asia Vol.I&II -Mangal Deep Publication , Jaipur.
- 5. Cressy Asia's Land and People Mc Graw Hill 1964.
- 6. Dobby.E.H.G -South East Asia, University of London Press -1960.
- 7. East and Spate Changing Map of Asia Methuen Publication 1971.
- 8. Fisher.W.B The Middle East: A Physical Social and Regional Geography New York 1971.
- 9. Kahanna K.K. And Gupta V.K Economic And Commercial Geography sulthan chand and Sons, New Delhi -2001.
- 10. Mohammed Shafi Agricultural Geography of South Asia Mac Millan India Ltd., New Delhi 2000.
- 11. Phani Deka Geography, Economic and Regional Wiley Eastern Ltd., Chennai 1992.
- 12. Ranjit Tirtha Geography of Asia Rewet Publications New Delhi -2001.
- 13. Stamp A Regional Geography Longmans 1965.

#### Web References

- 1.http://www.mapsopensource.com/asia-political-map.html (Political facts of Asia)
- 2.http://www.mapsofworld.com/physical-map/asia.htm (Physical of Asia)
- 3.http://www.asiafastfacts.com/asiaclimate.html (Climate of Asia)
- 4.http://www.Biologydiscussion.com/soil/what-are-the-main-causes-of-soil degradation /7276 (Soil of Asia)
- 5.http://www.conserve-energy-future.com/causes-effects-solutions-of-desertification.php (Natural Vegetation of Asia)

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT 1			
	Physical Landscape: Location-importance of its location Asia is a continent of contrast – Political divisions -	5	Group discussion, VLC and PPT lecture
	Physiographic divisions - Drainage	5	Group discussion, VLC and PPT lecture
	Climate - Natural vegetation.	5	Group discussion, VLC and PPT lecture
UNIT II		•	
	Soil: types, characteristics and problems	5	chalk and talk and usage of maps ,PPT and VLC

	Agricultural determinants - Major crops and distribution -	5	chalk and talk and usage of maps ,PPT and VLC
	Agricultural problems and sustainable agriculture.	5	chalk and talk and usage of maps ,PPT and VLC
UNIT III			
	Minerals: location, distribution and issues	5	Group discussion, VLC and PPT lecture
	– Power resources –	5	Group discussion, VLC and PPT lecture
	Industries: major industries and their location -	5	Group discussion, VLC and PPT lecture
UNIT IV			
	Transport: types – and major routes	5	Group discussion, chalk and talk and usage of maps VLC and PPT lecture
	Major ports and harbors – Tourism	5	Group discussion, chalk and talk and usage of maps VLC and PPT lecture
	Trade: major imports and exports	5	Group discussion, chalk and talk and usage of maps VLC and PPT lecture
UNIT V			
	Population: distribution, population pyramids, problems and policies	5	chalk and talk ,Group discussion, , Maps and Atlas and PPT lecture
	Languages - Urbanization: current status and urban problems -	5	chalk and talk ,Group discussion, Maps and Atlas and PPT lecture
	- Natural and Human Hazards - Asia in future.	5	chalk and talk ,Group discussion, Maps and Atlas and PPT lecture

Course	Programme Outcomes (Pos)  Programme Specific Outcomes (PSOs)											Mean			
Out															scores
comes															of
(Cos)															Cos
	PO1	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
		2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO4	CO4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5									5					
CO5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4										4					
	Mean Overall Score											4.8			

Result: The Score for this Course is 4.8 (Very High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very High	
Mean Score of CC	Os = Total of Va	lue	Mean Overall Score of COs = Total of Mean Score			
	Total No. of Pos	& PSOs		Total No	o. of COs	

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.N.Pothumani

Programme: B.SC GEOGRAPHY Part III: Course Type: DSEC-III

Semester : VI Hours : 5 P/W 75Hrs P/S

Sub. Code : U22DSG3B Credits :4

Title of the Paper: GEOGRAPHY OF TRAVEL AND TOURISM

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIA	ICT
				L	
	5	2	1	1	1

**PREAMBLE:** The paper emphasis the student to understand physical, social and economical development of area and the impact of man and environmental relationship related with tour and travel

and travel		
COURSE OUTCOME	Unit	Hrs
At the end of the Semester, the Students will be able to		P/S
<b>CO1</b> : Know the idea about the Travel – Motivation - Meaning and Nature of	1	15
Tourism - Types of Tourism.		
<b>CO2</b> : Understand the Elements of Tourism – Attraction, Accessibility,	2	15
Accommodation and Amenities		
<b>CO3</b> : Acquire more knowledge about the Travel formalities – Tour Itinerary	3	15
Travel Agencies – Travel Abroad Facilities – Visa, Passport, Bank		
restrictions – Traveller's Cheques.		
<b>CO4</b> : Explain the Role of Transport in Tourism Development.	4	15
<b>CO5</b> : observe and recognize Tourism Potentials of India - special reference	5	15
to India- The role of India Tourism Development Corporation (ITDC) –		
Indian Tourism Development Corporation and World Tourism		
Organization ( WTO)		
CVI I ADIIC		

# **SYLLABUS**

**UNIT -I**: Concept of Leisure and Tourism – Types of Tourism – Determinants and motivation of tourism-Tourism development in the world – Tourism in India.

- **UNIT -II**: Elements of tourism Attraction, Accessibility and Amenities –Classification of tourist spots Accommodation Primary and supplementary accommodation Hotels, inns and motels
- **UNIT -III**: Travel formalities Tour itinerary Travel agency Travel restriction Passport, visa and bank restriction Traveler's cheques Credit and debit cards Tourism and environment Eco tourism
- **UNIT IV**: Transport and Trade: Transport: Types and major routs-Major ports and harbours-Trade: Major imports and exports-ASEAN.
- UNIT-V: Tourist Organization –World Tourism Organization (WTO)–Indian Tourism
   Development Corporation (ITDC) and subsidiaries Tourism promotion advertisement
   Tourism planning and development Tourist spots in India Potential of tourism in India Problems of tourism development .

## **BOOKS FOR REFERENCES**

- 1. Tourism development Bhatia, Sterling Publishers, 1986
- 2. Tourism: Past, Present and Future Burkart & Madlik, Heinemann, 1976
- 3. Geography of Tourism Robinson, Mcdonald and Evans, 1976
- 4. Geography of Recreation and Leisure, Consgrove, Hutchinson, 1972

## Web References

- 1. http://www.tourismsociety.org/page/88/tourism-definitions.htm
- 2. https://www.britannica.com/topic/tourism
- 3. https://www.researchgate.net/figure/The-elements-of-tourism-system\_fig2\_313841811
- 4. http://anandasanyal.blogspot.com/2009/04/role-of-transportation-in-tourism.html
- 5. https://www.tandfonline.com/loi/rthp21

UNITS	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNIT 1			
	Travel – Motivation - Meaning and	5	Group discussion, VLC and PPT
	Nature of Tourism -		lecture
	Types of Tourism	5	Group discussion, VLC and PPT
			lecture
	Tourism development in the world	5	Group discussion, VLC and PPT
	<ul> <li>Tourism in India.</li> </ul>		lecture
UNIT II			
	Elements of Tourism –	5	chalk and talk and usage of maps
			,PPT and VLC
	Attraction, Accessibility,	5	chalk and talk and usage of maps
			,PPT and VLC
	Accommodation and Amenities	5	chalk and talk and usage of maps
			,PPT and VLC
UNIT III			
	Travel formalities – Tour Itinerary	5	Group discussion, VLC and PPT
			lecture
	Travel Agencies – Travel Abroad	5	Group discussion, VLC and PPT
	Facilities – Visa, Passport,		lecture
	Bank Restrictions – Traveller's	5	Group discussion, VLC and PPT
	Cheques		lecture
UNIT IV			
	Role of Transport in Tourism	5	Group discussion, chalk and talk
	Development-Land and Water		and usage of maps VLC and PPT
			lecture

	Air Transport	5	Group discussion, chalk and talk and usage of maps VLC and PPT lecture
	Trade: Major imports and exports-	5	Group discussion, chalk and talk and
	ASEAN.		usage of maps VLC and PPT lecture
UNIT V			
	Tourism Potentials of India (India	5	chalk and talk ,Group discussion, ,
	Tourism Development Corporation-		Maps and Atlas and PPT lecture
	ITDC)		
	Potential	5	chalk and talk ,Group discussion,
	of tourism in India		Maps and Atlas and PPT lecture
	Problems of tourism development.	5	chalk and talk ,Group discussion,
			Maps and Atlas and PPT lecture

Course	Prog	ramme	Outco	mes (F	Pos)			Programme Specific Outcomes (PSOs)						Mean	
Out											scores				
comes															of Cos
(Cos)	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Mean Overall Score									4.8					

Result: The Score for this Course is 4.8 (Very High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%
Scale	1	2	3	4	5
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0
Quality	Very Poor	Poor	Moderate	High	Very
					High
Mean Score of COs = <u>Total of Value</u>			Mean Overall Score of COs = <u>Total of Mean Score</u>		
Total No. of Pos & PSOs				Total No	o. of COs

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.N.Pothumani

Programme: B.Sc. GEOGRAPHY
Semester: VI
Part III: Course Type: GEC1
Hours: 2 P/W 30 Hrs P/S

Sub. Code : U22GEG1B Credits: 2
Title of the Paper: GEOGRAPHY OF HEALTH

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORIAL	ICT
	2	1	-	1	-

# PREAMBLE:

Geography of Health is a sub discipline of human geography, which deals with the interaction between people and the environment. Health geography views health from a holistic perspective encompassing society and space, and it conceptualizes the role of place, location and geography in health, well-being and disease.

and geography in nearth, went semigrand disease.		
COURSE OUTCOME	Unit	Hrs
At the end of the Semester, the Students will be able to		P/S
<b>CO1</b> : Understand the nature scope and development of health geography.	1	6
CO2: Find out the Geographical Background of Diseases.	2	6
CO3: to identify the health risk and exposure	3	6
<b>CO4</b> : Understand classification of diseases. Create Awareness of malnutrition and hygiene.	4	6
CO5: Understand the Process of health care planning in India.	5	6

## **SYLLABUS**

- **UNIT-I:** Perspectives on Health: Definition; linkages with environment, development and health; driving forces in health and environmental trends population dynamics, urbanization, poverty and inequality.
- **UNIT-II:** Pressure on Environmental Quality and Health: Human activities and environmental pressure land use and agricultural development; industrialization; transport and energy.
- **UNIT-III:** Exposure and Health Risks: Air pollution; household wastes; water; housing; workplace.
- **UNIT-IV:** Major Diseases Cholera, Malaria, Tuberculosis, Hepatitis, Leprosy, Cardiovascular, Cancer, AIDS and STDS.
- **UNIT-V:** Health Care Planning in India Health care services, Primary Health Care, Family Welfare, Immunization, National Diseases Eradication Programmes

## **BOOKS FOR REFERENCE**

- 1. Ahmed Hussain .Geography and Health-Mahaveer & sons, New Delhi-2007.
- 2. Cliff. A and Hagget. P. Atlas of Disease Distribution Basil Backwell Oxford 1989.
- 3. May J.M. The World Atlas of Disease, Nat. Book Trust, New Delhi 1970.
- 4. Misra.R.P Geography of Health Concept Publishing Company, New Delhi-2007
- 5. Park. K. Preventive and Social Medicine M/s Banarasidas Bhenot, Jabalpur 2007.
- 6. Rais A, and Learmonth A.T. A Geographical Aspects of Health and Diseases in India 1970.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT I Hea	lth- Environment		
	Geography of Health- Definition; linkages with environment	2	Chalk and talk
	Development and health and environment trends	2	Chalk and talk
	Population dynamics, urbanization, poverty and in equality.	2	Chalk and talk & videos
UNIT II env	ironmental pressure		
	Human Health – environmental pressure	2	Medical reports and VLC
	Urbanization	2	Medical reports and VLC
	Transport and energy	2	Medical reports and VLC
UNIT III exp	oosure and health risks	I	'
	Air & water pollution .	2	Medical reports ,VLC and PPT Representation

## DEPARTMENT OF GEOGRAPHY 2022-2023

	Household waste & housing	2	Medical reports, VLC and PPT Representation
	Health risk in workplace	2	Medical reports ,VLC and PPT Representation
UNIT IV Ma	ajor Diseases		
	Major Diseases – Cholera, Malaria, Tuberculosis,	2	Medical reports ,VLC and PPT Representation
	Hepatitis, Leprosy, Cardiovascular,	2	Medical reports, VLC and PPT Representation
	Cancer, AIDS and STDS.	2	Medical reports ,VLC and PPT Representation
UNIT V Hea	alth Care Planning in India		
	Health Care Planning in India – Health care services, Primary Health Care,	2	Medical reports ,VLC and PPT Representation
	Family Welfare, Immunization,	2	Medical reports ,VLC and PPT Representation
	National Diseases Eradication Programmes.	2	Medical reports ,VLC and PPT Representation

Course Out comes	Out comes comes		Programme Specific Outcomes (PSOs)							Mean scores of Cos					
(Cos)	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	1			1	]	Mean C	Overall	Score		· I	· I		· I		4.8

Result: The Score for this Course is 3.45 (High Relationship)

		• 5 <b>6.10.</b> 1 11 <b>0</b> 5 • 6	ore for this course is 5:15 (High Relationship)				
Mapping	1-20%	21-40%	41-60%	61-80%	81-		
					100%		
Scale	1	2	3	4	5		
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0		
Quality	Very Poor	Poor	Moderate	High	Very		
					High		
Mean Score of COs = Total of Value			Mean Overall Score of COs = <u>Total of Mean Score</u>				
	Total No. of Pos	& PSOs	Total No. of COs				

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Dr.S.Usha Buvaneswari

Programme :B.SC GEOGRAPHY PART: III Course Type : GEC1
Semester : VI Hours : 2 P/W 30Hrs P/S

Sub. Code : U22GEG1B Credits :2

Title of the Paper: DISASTER MANAGEMENT

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTOR	RIAL	ICT			
	2	1		1		-			
	PREAMBLE: Disaster management is a part of Environmental Geography –explain								
the hazard and its impact and management.									
		COURSE	<b>OUTCOME</b>		Unit	Hrs			
At the end of the	ne Semes	ter, the Stude	ents will be able t	0		P/S			
CO1: Knowled environme	1	6							
CO2: Understa	eauses of cyclones,	2	6						
•	CO3: Analyze the human impact on agriculture, consequences of deforestation and desertification								
CO4: Knowledge about the classification of pollutions- air, water and noise pollution 6									
CO5: Examine	<b>CO5</b> : Examine the awareness programmes about the disaster management 5								
	SYLLABUS								

**UNIT-I:** Disaster and Hazards –Definition and Types- Environmental Hazards –Earthquake, Volcanoes & Landslide.

**UNIT-II:** Global Warming - Greenhouse Effect - Cyclones - Flood – Drought – Tsunami.

**UNIT-III:** Human impact on Agriculture – Deforestation - Desertification.

UNIT-IV: Pollution - Definition and classification.

**UNIT-V:** Disaster Management and Environmental Impact Assessment.

# **BOOKS FOR REFERENCE**

- 1. Aaradhana. P.S- Environmental Management- Rajat Publication, New Delhi 1998.
- 2. Abbasi.S.A.- Environmental Impact Assessment Discovery Publishing House, New Delhi 2000.
- 3. Agarwal.S.K.- Environmental Issues and Themes APH Publishing corporation, New Delhi.
- 4. Chawla- Natural Hazards and Disaster Management Suman Printing Press shahdara, New Delhi 1993
- 5. Clark.B.D- Environmental Impact Assessment Mansell Publication, London 1980.
- 6. Robinson.H. Biogeography Plymouth MacDonald and Evans Ltd 1972.
- 7. Sharma.P.D.- Ecology and Environment Rastogi Publications, Meerut 1994.
- 8. Trivedi.P.R. Water Pollution Akashdeep Publishing House, New Delhi 1992.

<b>UNITS</b>	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNIT 1		•	
	Disaster and Hazards –Definition	2	Group discussion, VLC and PPT lecture
	Types- Environmental Hazard	2	Group discussion, VLC and PPT lecture
	Earthquake, Volcanoes & Landslide.	2	Group discussion, VLC and PPT lecture
UNIT 11		•	
	Global Warming - Greenhouse Effect -	2	chalk and talk and usage of maps and Atlas and VLC
	Cyclones	2	chalk and talk and usage of maps and atlas and VLC
	Flood – Drought – Tsunami	2	chalk and talk and usage of maps and atlas and VLC
UNIT III		•	
	Human impact on Agriculture	2	Group discussion, VLC and PPT lecture
	Deforestation	2	Group discussion, VLC and PPT lecture
	Desertification	2	Group discussion, VLC and PPT lecture
UNIT IV		•	

## DEPARTMENT OF GEOGRAPHY 2022-2023

	Pollution - Definition	1	Group discussion, VLC and PPT lecture
	classification.	5	Group discussion, VLC and PPT lecture
UNIT V			
	disaster management mitigation	3	Group discussion, Census Report, Maps and Atlas and PPT lecture
	Environmental Impact Assessment	3	Group discussion, Census Report, Maps and Atlas and PPT lecture

Course	se Programme Outcomes (Pos)						Programme Specific Outcomes (PSOs)					Mean			
Out														scores	
(Cos)															of Cos
(	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Mean Overall Score								4.8						

Result: The Score for this Course is 4.8 (Very High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very High	
Mean Score of COs = Total of Value			Mean Overall Score of COs = Total of Mean Score			
	Total No. of	Pos & PSOs	Total No. of COs			

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.N.Pothumani

Programme: B.SC GEOGRAPHY PART: III Course Type: Semester: Hours: 2 P/W 30Hrs P/S

Sub. Code : Credits :2

Title of the Paper: MAPPING TECHNIQUES (NON MAJOR STUDENTS)

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTORI		CT			
	2	1	-	1		-			
PREAMBLE:	<b>PREAMBLE:</b> The Paper on mapping techniques describes map – nature – scope- content								
- Shape and Size of earth - latitudes -longitudes- international date line and maps scale -									
point- line- area	a- symbo	ls- Types of	maps: Physical,	Economic and thematic	maps				
		COURSE	OUTCOME		Unit	Hrs			
At the end of th	ne Semes	ter, the Stude	ents will be able t	0		P/S			
CO1: Knowledge about the Map: Definition – Nature – Scope and content									
CO2: Understa	nd the E	arth: Shape	and Size - Latitue	de and Longitude –	2	6			
Local time	- Standa	ard time and	International Dat	e					
CO3: Analyze	the Map	Scales: Type	es – Uses		3	6			
CO4: Knowled	4	6							
Area.									
CO5: Examine	the Type	es of maps: F	Physical, Econom	ic and thematic maps	5	6			

## **SYLLABUS**

**UNIT-I:** Map: Definition – Nature – Scope and content.

**UNIT-II:** The Earth: Shape and Size - Latitude and Longitude – Local time – Standard time

and International Date.

**UNIT-III:** Map Scales: Types – Uses

**UNIT-IV:** Symbols: Types and Uses – Point, Line and Area.

**UNIT-V:** Types of maps: Physical, Economic and thematic maps

## **BOOKS FOR REFERENCES**

1. Aaradhana. P.S- Environmental Management- Rajat Publication, New Delhi - 1998.

- 2. Abbasi.S.A.- Environmental Impact Assessment Discovery Publishing House, New Delhi 2000.
- 3. Agarwal.S.K.- Environmental Issues and Themes APH Publishing corporation, New Delhi.
- 4. Chawla- Natural Hazards and Disaster Management Suman Printing Press shahdara, New Delhi 1993
- 5. Clark.B.D- Environmental Impact Assessment Mansell Publication, London 1980.
- 6. Robinson.H. Biogeography Plymouth MacDonald and Evans Ltd 1972.
- 7. Sharma.P.D.- Ecology and Environment Rastogi Publications, Meerut 1994.
- 8. Trivedi.P.R. Water Pollution Akashdeep Publishing House, New Delhi 1992.

UNITS	TOPIC	Hrs/ Week	MODE OF TEACHING
UNIT 1	<u> </u>	WCCK	<u> </u>
	Map- Definition	2	chalk and talk and usage of maps and Atlas and VLC
	Nature and Scope	2	chalk and talk and usage of maps and Atlas and VLC
	content	2	chalk and talk and usage of maps and Atlas and VLC
UNIT 11			
	The Earth: Shape and Size	2	chalk and talk and usage of maps and Atlas and VLC
	Latitude and Longitude	2	chalk and talk and usage of maps and atlas and VLC
	Local time – Standard time and International Date	2	chalk and talk and usage of maps and atlas and VLC
UNIT III	•	•	•
	Map Scales	2	chalk and talk and usage of maps and Atlas and VLC
	Types	2	chalk and talk and usage of maps and Atlas and VLC

	Uses	2	chalk and talk and usage of maps and Atlas and VLC
UNIT IV			
	Symbols: Types and Uses	1	chalk and talk and usage of maps and Atlas and VLC
	Point, Line and Area.	5	chalk and talk and usage of maps and Atlas and VLC
UNIT V			
	Types of maps	3	chalk and talk and usage of maps and Atlas and VLC
	Physical, Economic and thematic maps	3	chalk and talk and usage of maps and Atlas and VLC

Course Out comes (Cos)	Programme Outcomes (Pos)				Programme Specific Outcomes (PSOs)					Mean scores of Cos					
(Cos)	PO	PO	РО	PO	PO	PO	РО	PSO	PSO	PSO	PSO	PSO	PSO	PSO	
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Mean Overall Score								4.8						

Result: The Score for this Course is 4.8 (Very High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very High	
Mean Score of C	COs = Total c	of Value	Mean Overall Score of COs = Total of Mean Score			
	Total No. of	Pos & PSOs	Total No. of COs			

AL

Course Designer: Mrs.N.Pothumani

Programme :B.SC GEOGRAPHY PART: III Course Type :
Semester : Hours : 2 P/W 30Hrs P/S

Sub. Code : Credits : 2

Title of the Paper: COMPUTER ASSISTED CARTOGRAPHY (MAJOR STUDENTS)

Pedagogy	Hours	Lecture	Peer Teaching	GD/VIDOES/TUTOR	IAL	ICT			
	2	1	-	1		-			
PREAMBLE:									
		COURSE	OUTCOME		Uni	t Hrs			
At the end of the	ne Semes	ter, the Stud	ents will be able t	o		P/S			
CO1: Knowled	1	6							
CO2: Understa	2	6							
CO3: Analyze	CO3: Analyze the Micro Soft Office 3 6								
CO4: Knowledge about the Computer Remote Sensing: Digitization – Design and Layout – Reproduction 4 6									
CO5: Examine	CO5: Examine the Computer GIS: GIS software 5 6								
SYLLABUS									

UNITS -I: Components of Computer: Elements - Hardware and Software.

UNITS -II: Operating system: Files and Folders Processing.

**UNITS –III:** Micro Soft Office: Word – Excel – Power Point.

UNITS -IV: Computer Remote Sensing: Digitization – Design and Layout – Reproduction

**UNITS –V:** Computer GIS: Raster Data – Vector data – GIS software.

#### **BOOKS FOR REFERENCE**

- 1. Ahmad khan. M.Z-Text Book of practical Geography Concept Publishing company, New Delhi 1988.
- 2. Ishtiaq M. A text Book of practical Geography Heritage Publishers New Delhi 2001.
- 3. Jayachandran.S Practical geography Tamil Nadu Book Society, Chennai, 1963 (Tamil copy).
- 4. Misra R.P. and Ramesh. A Fundamentals of Cartography Concept Publishing company New Delhi 2002.
- 5. Monkhouse F.J. & Wilkinson H.R Maps and Diagrams- Methuen, London 1994.
- 6. Dr. Pijushkanti Saha & Dr. ParthBasu Advanced Practical Geography A Laboratory Manual Books&Allied Pvt.Ltd,Kolkatta 2004.
- 7. Singh and Kanunja Map work and Practical Geography Central Book Depot Allahabad 1979
- 8. Singh R.L Elements of Practical Geography Kalyani Published New Delhi 1979.

UNITS	TOPIC	Hrs/	MODE OF TEACHING
		Week	
UNIT I			
	Components of Computer:	2	Chalk and Talk, Demonstrate the
			network model through maps and
			ppt.
	Elements	2	Chalk and Talk, Demonstrate the
			network model through ppt.
	Hardware and Software	2	Chalk and Talk, Demonstrate the
			network model through ppt
UNIT II		· II	
	Operating system	2	Chalk & talk Demonstrate the through
			ppt. Group Discussion
	Files Processing	2	Chalk & talk Demonstrate the through
			ppt. Group Discussion
	Folders Processing	2	Chalk & talk Demonstrate the through
			ppt. Group Discussion
UNIT III			
	Micro Soft Office:	2	Demonstrate the through ppt. Group
			Discussion
	Word – Excel	2	Demonstrate the through ppt. Group
			Discussion
	Power Point.	2	Demonstrate the through ppt. Group
			Discussion
UNIT IV		ı	,
	Computer Remote Sensing: Digitization	2	Chalk & talk Demonstrate the through
			ppt. Group Discussion.

	Design and Layout	2	Chalk & talk Demonstrate the through ppt. Group Discussion
	Reproduction	2	Chalk & talk Demonstrate the through ppt. Group Discussion
UNIT V			
	Computer GIS:	3	Chalk and Talk, Demonstrate the network model through maps and ppt.
	Raster Data – Vector data	3	Demonstrate the through ppt. Group Discussion.
	GIS software		Demonstrate the ppt.

Course Out	` '					Programme Specific Outcomes (PSOs)				Mean scores					
comes															of Cos
(Cos)	PO	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	
	1														
CO1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
CO5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Mean Overall Score								4.8						

Result: The Score for this Course is 4.8 (Very High Relationship)

Mapping	1-20%	21-40%	41-60%	61-80%	81-100%	
Scale	1	2	3	4	5	
Relation	0.0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	
Quality	Very Poor	Poor	Moderate	High	Very High	
Mean Score of COs = Total of Value			Mean Overall Score of COs = <u>Total of Mean Score</u>			
	Total No. of	Pos & PSOs		Total N	No. of COs	

BLOOM'S TAXANOMY	INTERNAL	EXTERNAL
KNOWLEDGE	50%	50%
UNDERSTANDING	30%	30%
APPLY	20%	20%

Course Designer: Mrs.N.Pothumani