## **B.Sc.** Geography

# **Syllabus**

### **AFFILIATED COLLEGES**

**Program Code: 22Q** 

2023 - 2024 onwards



### BHARATHIAR UNIVERSITY

(A State University, Accredited with "A++" Grade by NAAC, Ranked 21st among Indian Universities by MHRD-NIRF)

Coimbatore - 641 046, Tamil Nadu, India

Program	Program Educational Objective (PEOs)						
	n qualification descriptors for the B.Sc., geography students are to develop the valuation and understanding.						
PEO1	Appreciate the significance of geographical knowledge to everyday life.						
PEO2	Inculcate the ability to evaluate and solve geographical problems effectively.						
PEO3	Demonstrate the skills in using geographical research tools including spatial statistics, cartography, remote sensing and GIS.						
PEO4	Studentshavetodemonstratetheirgeographicalknowledgeacquiredintheclassand apply the same in real world.						
PEO5	Based on the field knowledge and advanced technologies, the students should be able to understand the on-going geographical problems in different regions and levels with appropriate pragmatic solutions.						



Progran	Program Specific Outcomes (PSOs)					
After the	After the successful completion of Geography program, the students are expected to					
PSO1	Understand the relevance of geographical knowledge to everyday life.					
PSO2	Getting the ability to communicate geographic information utilizing both lecture and practical exercises.					
PSO3	Inculcate the ability to evaluate geographical problems effectively.					
PSO4	Recognize the skill development in Geographical studies programme as part of career avenues in various fields like teaching, research and administration.					
PSO5	Display an ability to read and understand maps and topographic sheets to look at the various aspects on the space.					



Progra	Program Outcomes (POs)					
On suc	cessful completion of the B. Sc. Geography program					
PO1	Demonstrating the understanding of basic concepts in geography. Display an ability to read and understand maps and topographic sheets to look at the various aspects on the space.					
PO2	Recognize the skill development in Geographical studies programme as part of career avenues in various fields like teaching, research and administration. Cultivate ability to evaluate critically the wider chain of network of spatial aspects from global to local level on various time scales as well.					
PO3	An understanding of landscape at different levels needsto be discussed and understood for a thorough knowledge of spatial dimensions. To comprehend the dynamic dimensions of human and ecosystem relationships.					
PO4	Field based knowledge is essential to understand the ground reality, spatial patterns and processes. Use of statistical tools and techniques is essential for precise and objective geographic analysis and interpretation of complex phenomena.					
PO5	Identification of the critical problems and spatial issues form the core of the modern geography for various applications and decision making, including Resources, Environment & Disaster Management, Land Use Planning, and Urban and Regional Development together with Climate Change Mitigation and Adaptation, etc.					
PO6	Communication through models, maps, images and other geographical tools form the sound base for the dissemination of geographical information.					
PO7	Learning human perception behavior to acquire the geographical knowledge evolved over time is essential to improve decision making process.					
PO8	Geographical knowledge needs to be inculcated for application and solutions of the various local, regional and national problems.					
PO9	Use of statistical tools and techniques is essential for precise and objective geographic analysis and interpretation of complex phenomena.					
PO10	There is a need to understand the specificities of the problems in specific areas for their in depth comprehension and solution.					

#### BHARATHIAR UNIVERSITY: COIMBATORE 641 046 B. Sc. Geography Curriculum (Affiliated colleges)

(For the students admitted during the academic year 2023–2024 onwards)

#### Scheme of Examination

Course Code	Title of the Course	Credits	Но	ours	Maximum Marks		
Code			Theory	Practical	CIA	ESE	Total
	FIRST SEMESTEI	R					
1IT	Language – I	4	6	-	25	75	100
12E	English – I	4	6	-	25	75	100
13A	$Core\ I-Fundamentals\ of\ Geomorphology\ -\ I$	4	5	-	25	75	100
13B	Core II – Geography of India	4	5	-	25	75	100
1AC	Allied: Paper I – Statistics for Geography -I	4	6	-	25	75	100
1FA	Environmental Studies #	2	2	-	-	50	50
	Total	22	30		125	425	550
	SECOND SEMESTI	ER					
21T	Language – II	3, 4	6	-	25	75	100
22E	English – II	<b>E-2</b>	4	-	25	25	50
	Language Proficiency for Employability http://kb.naanmudhalvan.in/Special:Filepath/Cam bridge_Course_Details.pdf	15.2 15.2	2	-	25	25	50
23A	Core III – Fundamentals of Geomorphology - II	1000	5	-	25	75	100
23P	Core IV – - Practical - Basics of Map Making	of Leads	-	5	40	60	100
2AC	Allied: Paper II - Statistics for Geography -II	4	6	-	25	75	100
2FB	Value Education – Human Rights #	2	2	-	-	50	50
	Swatch Bharat Summer Internship*		-				
	Total	22	25	5	150	400	550

			<u>JC</u> 1	AA DATEL	7. 10.0	13.202	
	THIRD SEMESTER				25	75	10
31T	Language - III	4	6		25	75	10 0
32E	English - III	4	6	-	25	75	10 0
33A	Core V - Climatology	4	4	-	25	75	10 0
33B	Core VI – Population & Settlement	4	4	-	25	75	10 0
3AC	Allied: III – Elements of Cartography	4	5	-	25	75	10 0
3ZA	Skill Based Subject – Basics in Computers (Minimum 2 hrs compulsory lab for a week)	3	3	-	20	55	75
3FB / 3FC / 3FD	Tamil @ / Advanced Tamil # (OR) Non – Major Elective – I (Yoga for Human Excellence) # / Women's Rights #	2	2	-	-	50	50
	Total	25	3		145	48 0	62 5
	FOURTH SEMESTER						
`41T	Language - IV	4	6	-	25	75	10 0
42E	English - IV	4	6	-	25	75	10
43A	Core VII – Oceanography	4	4	1	25	75	10
43P	Core VIII – Practical – Map Interpretation and Representation of Climatic Data	3	1	3	30	45	75
43Q	Allied: IV – Practical - Cartography	3	1	3	30	45	75
4ZB	Skill Based Subject – Basics of GIS & GPS (Minimum 2 hrs compulsory lab for a week)	3	3	-	20	55	75
4FB / 4F E	Tamil @ / Advanced Tamil # (OR) Non – Major Elective – II (General Awareness #)	2	2	-	-	50	50
	NAAN MUTHALVAN-Digital Skills for Employability — Office Fundamentals http://kb.naanmudhalvan.in/Special:Filepath/Microsoft_Course_Details .xlsx	2	2	-	25	25	50
	Total	<b>2 5</b>	24	6	160	465	62 5

			50	CAA DAT	<u>DD. 1</u>	0.03.2	725
1	FIFTH SEMESTER	1			1	1	
53A	Core IX – Geography of Natural Regions of the World	4	6	-	25	75	100
53B	Core X – Geography of Tamil Nadu	3	6	-	20	55	75
53C	Core XI – Geography of Resources - I	4	6	-	25	75	100
53D	Core XII – Remote Sensing and its Applications in Geography	4	5	-	25	75	100
5EA	Elective – I, Urban Geography	4	4	-	25	75	100
5EB	Skill Based- Subject – Disaster Studies		3	-	20	55	75
	Total	22	30		140	410	550
	SIXTH SEMESTER						
63A	Core XIII – Geography of Resources - II	4	6	ı	25	75	100
63B	Core XIV – Environmental Studies and Management	3	6	-	20	55	75
63P	Core XV – Practical - Surveying & Interpretation of Aerial Photos and Satellite Images (Minimum 2 hrs compulsory lab for a week)	4	-	5	40	60	100
6EA	Elective –II, Political Geography	4	5	-	25	75	100
6ED	Elective – III, Regional Geography of South East Asia	4	5	-	25	75	100
6ZD	Skill Based Subject – Geography of Tourism	3	3	-	20	55	75
67A	Extension Activities @	2	ı	-		50	50
	Other Item Swatch Bharat Internship Scheme - II	2	1	-	-	-	-
	Employability Readiness- Naan Mudhalvan Course	-	-	-	-	-	-
'	Total	24	25	5	140	460	600
	Grand total	140	161	19	860	2640	3500

<sup>@</sup> No University Examinations. Only Continuous Internal Assessment (CIA) # No Continuous Internal Assessment (CIA), Only University Examinations.

List of E	List of Elective papers (Colleges can choose any one of the paper as Electives)					
Elective – I	A	Urban Geography				
	В	Natural disasters and Management				
	C	Bio-Geography				
Elective – II	A	Political Geography				
	В	Geography of USA				
	C	Regional Geography of Middle East				
Elective – III	A	Regional Geography of Southeast Asia				
	В	Geography of Japan				
	C	Medical Geography				

SCHEME OF VALUATION					
CORE PAPERS	ELECTIVE PAPERS				
CREDITS – 4; MARKS - 100	CREDITS – 4; MARKS - 100				
Marks Distribution:	Marks Distribution:				
Internal–25 Marks	Internal – 25 Marks				
External – 75 Marks	External – 75 Marks				

SCHEME OF VALUATION					
SKILL BASED SUBJECT	NON MAJOR ELECTIVE				
CREDITS – 3; MARKS - 75	CREDITS – 2; MARKS - 50				
Marks Distribution:	Marks Distribution:				
Internal–20 Marks	Internal – NIL				
External – 55 Marks	External – 50 Marks				

SCHEME OF VALUATION
CORE PRACTICAL SUBJECT
CREDITS – 4; MARKS - 100
Marks Distribution:
Internal–25 Marks
External – 75 Marks



Course code	13A	FUNDAMENTALS OF GEOMORPHOLOGY – I	L	T	P	С
Core/ Elective	e/ Supportive	Core	5	0	0	4
Pre-requisiteBasic knowledge of fundamentals of landformsSyllabus version						
Course Object	tives:				•	
		ns its origin and evolution.				
To learn about	the Geomorph	ic features in details.				
Course Outco	mes:					
		e, the students will have ability to:				
		oning of Earth systems in real time and analyze how erating factor affects the development of landforms.	the natui	al	K	2
		ne mechanisms that control these processes			K.	
		tructure, stage and time in shaping the landforms and apply the knowledge in geographical research.		et	K3	3
	<u> </u>	gical maps and apply the knowledge in geographical		١.	K3	3
		cales of time and space affect geomorphologic proce			K	2
K1 - Remember	er; <b>K2</b> - Unders	tand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;				,
Unit- I		Geomorphology			hou	
	gy – meaning, s logical Time So	scope and content - Interior of the Earth – Origin of cale.	f the Ear	th and	d rela	ated
Unit- II		Origin of Continents and Oceans		10	hou	
	inents and Oce	ans - Continental Drift Theory - Plate Tectonics - Se	a Floor 9	_		
Origin or com	ments and Occ	ans - Continental Diff. Theory - Flate Tectomes - Se	a 1 1001 k	эргсас	img.	
Unit- III		Earthquakes and Volcanoes		18	hou	rs
Earthquakes as	nd Volcanoes: I	Definition, causes and types-Distribution and effects.		ı		
		State On Winds				
Unit- IV	E	arth movements: Endogenic and Exogenic		18	hou	rs
Earth moveme	nts: Endogenic	and Exogenic – Diastrophism – Folds - Faults: Type	s.			
** ** **		D 1 m		1 40		
Unit- V	T 0 1:	Rocks: Types	C' 1	18	hou	rs
Rocks: Types	- Igneous, Sean	mentary and Metamorphic – Soil: Formation and Pro-	nie.			
		Total lectur	e hours		90	
Text Books:						
1 Thornbu	ry, W.D., (1984	). Principles of Geomorphology, John Wiley and Son	ns, New	York.		
Books For Re						
1 Strahler,	A.N. and Strah	ler A.H., (1992). Modern Physical Geography, John	and Wile	y Sor	ıs, No	ew.
York.						
York.	, (1995). Text 1	Book of Geomorphology, Shukla Book Depot, Patna.				
York. 2 Dayal, P		Book of Geomorphology, Shukla Book Depot, Patna. Geomorphology, Prayag Pustak Bhawan, Allahabad.				
York.  2 Dayal, P.  3 Savindra  4 Das Gup	Singh, (2002).	Geomorphology, Prayag Pustak Bhawan, Allahabad or, A.N., (2001). Principles of Physical Geography, S	•	nd &		
York.  2 Dayal, P  3 Savindra  4 Das Gup Company	Singh, (2002). ta, A and Kapo y Ltd, New Del V.K., (1986). E	Geomorphology, Prayag Pustak Bhawan, Allahabad or, A.N., (2001). Principles of Physical Geography, S	S.C. Chai		npan	у

Rela	Related Online Contents:					
1	https://study.sagepub.com/sites/default/files/01_Gregory_Lewin(web)_Ch-01%20_1.pdf					
2	https://en.wikipedia.org/wiki/Geomorphology					
Cou	Course Designed By: Dr. J. Ganesan					

Mapping v	vith Prog	gram Out	comes							
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	S	S	S
CO2	S	S	M	S	S	S	S	M	S	S
CO3	S	M	S	S	L	S	M	S	S	S
CO4	M	S	S	M	S	M	S	S	M	L
CO5	S	S	S	S	S	S	S	S	S	S



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	19	8 hai	
	esourc	es: C	Coal,
	18	8 hou	urs
extiles,	Iron a	and s	teel,
	18	8 hou	urs
d proble	ems. T	rans	port:
re hours	S	90	
shers, No	ew De	lhi.	
	Power reer Station	Tribution: Rice  — Problems  —	18 houtribution: Rice, What — Problems of In  18 houter resources: Our Stations — Alternate    18 houter Stations — Alternate    18 houter resources: Our Stations — Alternate    18 hou

Boo	ks For Reference:
1	Majid Hussain (2008), Geography of India, Tata McGraw Hill Publishing company Ltd., New
	Delhi.
2	Pal, Saroj K. (2003), Physical Geography of India – A study in Regional Earth Sciences, Orient
	Longman Pvt. Ltd. Kolkata.
3	Singh, R.L., (1977), India - A Regional Geography, NGSI, Varanasi.
4	Sharma, T.C., (2003), India – An Economic & Commercial Geography, Vikas Publishing House
	Pvt. Ltd., New Delhi.
5	Krishnan, M.S. (1982), Geology of India and Burma, CBS Publishers, New Delhi.
6	Mathur, S.M. (1982), Physical Geology of India, National Book Trust, India, New Delhi.
Rela	ated Online Contents:
1	https://en.wikipedia.org/wiki/Geography_of_India
2	https://www.cs.mcgill.ca/~rwest/wikispeedia/wpcd/wp/g/Geography_of_India.htm
Cou	rse Designed By: B. Sasikumar

Mapping	with Pr	ogram Ou	tcomes							
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	S	S	M
CO2	S	S	M	S	S	S	S	M	M	S
CO3	S	M	S	S	. See Level	S	M	L	S	S
CO4	M	S	S	M	S	M	S	S	M	S
CO5	S	S	M	S		S	S	M	S	M



Course cod	e 23A	FUNDAMENTALS OF GEOMORPHOLOGY- II	L	T	P	С	
Core/ Electi	ve/ Supportive	Core	5	0	0	4	
Pre-requisit	e	Basic knowledge in mountain, plain and plateau of the Earth	Sylla vers			21- )22	
Course Obj							
		e is to familiarize the students with the geomorphists will be able to understand various landforms of the e				fter	
Course Out	comes:						
After the cor	npletion of cours	e, the students will have ability to:					
Desc	ribe the exogeno	us and endogenous processes in the landscape, their im	portan	ce			
proce	sses.	ment, and distinguish the mechanisms that control th			K	2	
of lar	Analyze how variations in climate, tectonics and environment affect the development						
		scales of time and space affect geomorphological proce	sses.		K.		
		omorphological methods used in research today.			K.		
		raphical landforms and morphological changes.			K2	<u>'</u>	
K1 - Remem	ber; <b>K2</b> - Unders	stand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;					
		Weathering and associated landforms  ndforms: Gradational Process: Aggradation and Degra Resultant features.	dation		<b>hou</b> athe		
		Fluvial landscapes  e pattern, Agents of Erosion: Running water – Erosio of Erosion by Davis	onal &		<b>hou</b> ositi		
Landioinis	concept of Cycle	of Erosion by Euvis					
Unit- III		Karst landscapes		18	hou	rs	
	apes: Work of U	nderground Water – Karst Landforms.		<u> </u>			
	•						
Unit- IV		Glacial and Glaciofluvial landscapes		18	hou	rs	
Glacial and (	Glaciofluvial land	dscapes: Glaciers – Types – Erosional & Depositional L	Landfor	ms.			
Unit- V		Aeolian landscapes		18	hou	rs	
	scapes: Wind – A	Aeolian Landforms – Wave – Coastal Landforms.		10	1100		
		Tatallantona	1		00		
Text Books:		Total lecture	nours		90		
	hombury W.D. (	1969), Principles of Geomorphology, John Willey and	Sons N	ew Y	ork.		
Books For F	Reference:						
		(1989), Physical Geography, Prentice Hall, New Jersey	y, U.S.	A.			
		G.(1972), A Text Book of Geomorphology, East West					
		rgan, An Outline of Geomorphology, Longman London					
		1976) Principles of Physical Geography, Hodder & Stro		, Lon	don.		

Related	Related Online Contents:					
1	https://study.sagepub.com/sites/default/files/01_Gregory_Lewin(web)_Ch-01%20_1.pdf					
2	https://en.wikipedia.org/wiki/Geomorphology					
Course I	Designed By: M. Panneerselvam					
Course	Designed by: W. Fanneerselvani					

Mappi	ng with l	Progran	n Outcom	es						
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	M	S	M	S
CO2	S	S	M	S	S	S	S	M	S	S
CO3	S	M	S	S	M	S	M	S	S	M
CO4	S	S	S	M	S	S	S	S	M	S
CO5	S	S	S	S	L	S	S	S	S	L

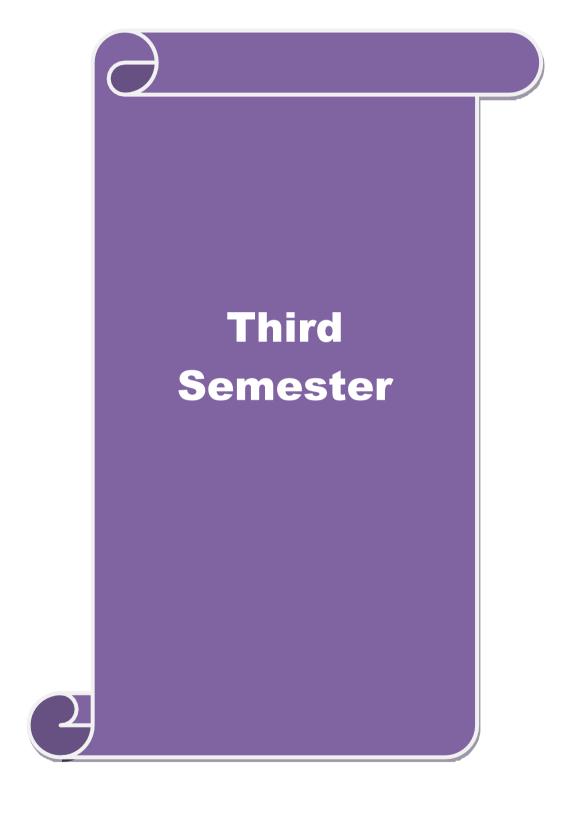


	23P	BASICS OF MAP MAKING - PRACTICAL L		T	P	C
Core/ Elective/	Supportive	Core 0	)	0	5	4
Pre-requisite			yllabu ersioi		202 20	21- 22
Course Objectiv	ves:	·				
To understand ab	out the map so	cale and Statement and Representative Fraction.				
To learn about E	nlargement and	d Reduction of Maps, Contours, Slope and Drainage Basin	n.			
Course Outcom	ies:					
After the comple	etion of course,	the students will have ability to:				
CO1 Graduate	student to prep	pare the scale and mapping knowledge.			K2	,
CO2 To under	stand the stude	nt learn map prepare and modify the scale.			K1	
CO3 Analyze	the real world p	physical features form the toposheets.			K3	
CO4 Construct	tion of the elev	ration of the mountain prepares toposheets.			K3	
CO5 To under	stand the scale	divisions and toposheet knowledge.			K2	,
K1 - Remember;	K2 - Understa	and; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;				
Unit- I		Map Scale		18	hou	rs
	hods of repres	sentation of scales – Statement and Representative Frac	ction			
Linear and Comp					<b>ч</b> ртт	
Unit- II		Enlargement and reduction of maps		18	hou	rs
		naps: Square and triangle – Measurement of distance: The	read a			
		and Strip methods.	read t		<b>D</b> 1 1 1	ucı
	1					
Unit- III		Representation of Relief		18	hou	rs
		Representation of Relief  tours: Different methods – Interpolation of contours - C	Cross-			
Representation of selected relief feat		cours: Different methods – Interpolation of contours - C	Cross-	- sec	ction	of
Representation of selected relief fea	atures.	Profile Drawing		- sec		of
Representation of selected relief fea	atures.	cours: Different methods – Interpolation of contours - C		- sec	ction	of
Representation of selected relief fea	atures.	Profile Drawing		18	ction	of rs
Representation of selected relief feature.  Unit- IV Profile Drawing:  Unit- V	atures. Serial, Super-	Profile Drawing imposed, Composite and Projected – Altimetric Frequence  Record	y Cur	18 rve.	hou hou	of rs
Representation of selected relief feature.  Unit- IV  Profile Drawing:	atures. Serial, Super-	Profile Drawing imposed, Composite and Projected – Altimetric Frequence	y Cur	18 rve.	hou	of rs
Representation of selected relief features.  Unit- IV Profile Drawing:  Unit- V Record – 20 Mar	Serial, Super-i	Profile Drawing imposed, Composite and Projected – Altimetric Frequence  Record  Total lecture hou	ey Cur	18 rve.	hou hou	rs
Representation of selected relief features.  Unit- IV Profile Drawing:  Unit- V Record – 20 Mar	Serial, Super-i	Profile Drawing imposed, Composite and Projected – Altimetric Frequence  Record	ey Cur	18 rve.	hou hou	rs
Representation of selected relief features.  Unit- IV   Profile Drawing:  Unit- V   Record – 20 Mar   Profile Drawing:  Text Books:  1   Monk house	Serial, Super-i	Profile Drawing imposed, Composite and Projected – Altimetric Frequence  Record  Total lecture hou	ry Cur	18 rve. 18 ew	hou hou Delh	rs
Representation of selected relief features.  Unit- IV Profile Drawing:  Unit- V Record – 20 Mar  Text Books:  1 Monk hous 2 Sethu Rakk	se, F.J. and Wilkayi, S., (2014)	Profile Drawing imposed, Composite and Projected – Altimetric Frequence  Record  Total lecture hou kinson, H.R., (1989), Maps and Diagrams, B.I.Publicatio, Puvippadaviyaloor arimugam, Sree Meenakshi Offsets,	ry Cur             	18 rve. 18 ew	hou hou Delh	rs
Representation of selected relief features.  Unit- IV   Profile Drawing:  Unit- V   Record – 20 Mar   Profile Drawing:  Text Books:  1   Monk house 2   Sethu Rakk 3   Singh, R. L.	se, F.J. and Wilkayi, S., (2014)	Profile Drawing imposed, Composite and Projected – Altimetric Frequence  Record  Total lecture hou kinson, H.R., (1989), Maps and Diagrams, B.I.Publicatio	ey Cur ers ns, No Madu	18 rve. 18 urai	hou hou Delh	rs
Representation of selected relief features.  Unit- IV   Profile Drawing:  Unit- V   Record – 20 Mar   Profile Drawing:  Text Books:  1   Monk house 2   Sethu Rakk 3   Singh, R. L. L. L. Gopal single	se, F.J. and Wilkayi, S., (2014) L., (2005), Elen h, (1996), Map	Profile Drawing imposed, Composite and Projected – Altimetric Frequence  Record  Total lecture hou  kinson, H.R., (1989), Maps and Diagrams, B.I.Publicatio, Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, ments of Practical Geography, Kalyani Publishers, New D	ey Cur ers ns, No Madu	18 rve. 18 urai	hou hou Delh	rs
Representation of selected relief features.  Unit- IV   Profile Drawing:  Unit- V   Record – 20 Mar   Profile Drawing:  Text Books:  1   Monk house   Profile Drawing:  3   Singh, R. I. I. Gopal sings   Profile Drawing:	se, F.J. and Wil kayi, S., (2014) L., (2005), Elen h, (1996), Map	Profile Drawing imposed, Composite and Projected – Altimetric Frequence  Record  Total lecture hou  kinson, H.R., (1989), Maps and Diagrams, B.I.Publication, Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, ments of Practical Geography, Kalyani Publishers, New Dowork and practical geography, Vikas Publishing House F	ey Cur ers ns, No Madu	18 rve. 18 urai	hou hou Delh	rs
Representation of selected relief features.  Unit- IV   Profile Drawing:  Unit- V   Record – 20 Mar   Profile Drawing:  Text Books:  1   Monk hous: 2   Sethu Rakk: 3   Singh, R. L.   Gopal sing:  Books For Reference: 1   Khullar, (1986)	se, F.J. and Wilkayi, S., (2014) L., (2005), Elem h, (1996), Map	Profile Drawing imposed, Composite and Projected – Altimetric Frequence  Record  Total lecture hou  kinson, H.R., (1989), Maps and Diagrams, B.I.Publicatio , Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, nents of Practical Geography, Kalyani Publishers, New Dowork and practical geography, Vikas Publishing House F Geography, Educational Publishers, New Delhi.	ns, No Madielhi.	18 rve.  18 urai	hou hou Delh	rs
Representation of selected relief features.  Unit- IV   Profile Drawing:  Unit- V   Record – 20 Mar   Profile Drawing:  Text Books:  1   Monk house: 2   Sethu Rakk: 3   Singh, R. L.	se, F.J. and Wilkayi, S., (2014) L., (2005), Elem h, (1996), Map	Profile Drawing imposed, Composite and Projected – Altimetric Frequence  Record  Total lecture hou  kinson, H.R., (1989), Maps and Diagrams, B.I.Publication, Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, ments of Practical Geography, Kalyani Publishers, New Dowork and practical geography, Vikas Publishing House F	ns, No Madielhi.	18 rve.  18 urai	hou hou Delh	rs
Representation of selected relief features.  Unit- IV   Profile Drawing:  Unit- V   Record – 20 Mar    Text Books:  1   Monk house 2   Sethu Rakke 3   Singh, R. I.	se, F.J. and Wilkayi, S., (2014) L., (2005), Elemanth, (1996), Map  rence: 997), Practical Ahmad Khan, Mew Delhi. Saha and Partl	Profile Drawing imposed, Composite and Projected – Altimetric Frequence  Record  Total lecture hou  kinson, H.R., (1989), Maps and Diagrams, B.I.Publicatio , Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, nents of Practical Geography, Kalyani Publishers, New Dowork and practical geography, Vikas Publishing House F Geography, Educational Publishers, New Delhi.	ns, No Maduelhi.	18 rve. 18 ew Jurai	hou 90 Delh	rs ii.

Rela	ated Online Contents:
1	https://ncert.nic.in/ncerts/l/kegy301.pdf
2	https://www.esri.com/industries/k-12/education/~/media/Files/Pdfs/industries/k-12/pdfs/intrcart.pdf
Cou	irse Designed By: Dr. J. Ganesan

Mapping	with P	rogram O	utcomes							
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	L	S	S	S	S	M
CO2	S	S	M	S	S	S	S	M	M	S
CO3	S	M	S	S	L	S	M	S	S	M
CO4	M	S	S	M	S	M	S	S	M	S
CO5	S	M	M	S	L	S	S	M	S	S





Course c	ode 33A	CLIMATOLOGY	L	T	P	C
Core/ Ele	ctive/ Supportive	Core	4	0	0	4
Pre-requi	site	Basic knowledge of daily weather report	Sylla	bus	20	21-
		observations	versi	on	20	)22
Course O	_					
	-	ere and its properties and Functions				
To learn a	bout the Atmospheric	e Pressure, Wind, Cloud and Classification.				
Course O	utoomos					
		the students will have ability to:				
	*	s of weather and climate and its impacts at different sca	ales.		K	)
		ic aspects and its bearing on planet earth.	<u></u>		<u>K</u> 1	
		change and monsoon conditions of the world.			K3	
		ional concepts of climate change and its impacts.			K3	
		atic changes from the world.			K	
		and; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;				
Unit- I		Climatology		14	hou	rs
Climatolo	gy: Meaning, scope a	nd content – Atmosphere: Composition and Structure				
-Weather	and Climate: Definiti	ion and its significances.				
		: Approvided to				
Unit- II		Insolation			hou	
		orizontal a <mark>nd v</mark> ertical distrib <mark>ution o</mark> f temperature –	Facto	ors a	ffect	ing
distributio	n of temperature.	(a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c				
T TT	T	The state of the s		- 1 =		
Unit- III	· D	Atmospheric Pressure			hou	
		al and Horizontal - Major Pressure Belts - Winds: P	'laneta	ry an	id L	ocal
winds – N	nonsoon - Atmospher	ric Moisture: Humidity – Condensation and Clouds.				
Unit- IV		Precipitation was		14	hou	rs
	on: Snow fall and Ra	in fall: Types and distribution of rainfall - Air masses:	Types			
	Cyclone: Tropical and		Туров	, 11	OHES	una
71	, ,	•				
Unit- V		Climatic Classification		15	hou	rs
	Classification: Need	and basis - Koeppen's Classification - El-Nino and	La- N			
	- Weather forecasting					
		Total lecture h	ours		72	
Text Bool						
1		limatology, Chatianya Publishing House, Allahabad.				
2		80). Introduction to Climate, Tata McGraw Hill, New `				
3	Critch field, H.J., (1	987). General Climatology, Prentice Hall of India Pvt.	Ltd, N	lew I	Delhi	l.
	r Reference:					
1	Siddhartha, K., (200 New Delhi.	05). Atmosphere, Weather and Climate, Kisalaya Public	cations	s Pvt.	Ltd	٠,
2		ley (1970). Elements of Meteorology, John Willey & s	ons in	c, Ne	wY	ork.
3		02). Physical Geography, Prayag Pustak Bhawan, Alla		,		-
	<i>U</i> / ( <sup>1</sup>	, , , , , , , , , , , , , , , , , , , ,				
l						

Related (	Related Online Contents:					
1	https://en.wikipedia.org/wiki/Climatology					
2	2 https://www.environmentalscience.org/climatology					
Course I	Designed By: A. Suresh					

Mapping	with Pr	ogram O	utcomes							
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	S	S	S
CO2	S	S	M	S	S	S	S	M	S	S
CO3	S	M	S	S	M	S	M	S	S	M
CO4	S	S	S	M	S	S	S	S	L	S
CO5	S	S	S	S	L	S	M	S	S	M



Course code	33B	POPULATION AND SETTLEMENT	L	T	P	C		
Core/ Elective/	Supportive	Core	4	0	0	4		
Pre-requisite			Sylla versi			21- )22		
			V CI SI	UII				
Course Object	ives:							
		in and Development of Settlements, Types and Theories.						
To learn about l	Rural, Urban S	Settlements and Characteristics.						
Course Outcor		and the standard will be an abilities to						
		e, the students will have ability to:			V	,		
	Know the changing human and cultural landscape at different levels.  K2 Understand patterns and processes of population growth and it implications.							
		and processes of population growth and it implica and quality of human landscapes.	uons	•	<b>K</b> 1	L		
		ynamics and characteristic with contemporary issues.			K3	3		
		e of key concept, different components of population.			K3			
		and quality of human landscapes.			K2	<u></u>		
		stand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;						
		:346000000 Pes(O)						
Unit- I		Popu <mark>lation Geography</mark>		15	hou	rs		
		and Content – Factors affecting Population Distribution						
–Population Dis	stribution of In	ndia and Wor <mark>ld.</mark>						
TI24 TT		David War Countly		15	1			
Unit- II	with. Easters	Population Growth  Affective Population County Population Transiti			hou			
		affecting Population Growth – Demographic Transiti Fertility and Mortality Rates.	OII -	- Pop	ourai	IOII		
Composition an	la Structure 1	returnly and worthing reads.						
Unit- III		<b>Human Migration</b>		14	hou	rs		
	on: Factors – (	Causes and Consequences – Types – Population theories: 1	Maltl	nus –	Rica	ırdo		
- Optimum and		1 71 1						
Unit- IV		Settlement Geography			hou			
		and Situation -Types - Urban Land use Theories: Con-	centr	ic - S	Secto	r –		
Multiple-Nucle	1.							
Unit- V		Urban Centers		1/	hou	rc.		
<u> </u>	Growth and	Development - Associated Problems - Metropolis,	Mag					
		es of Coimbatore, Chennai and Delhi.	wieg	аюро	115	ınu		
	univioliai 2011	es of Commonore, Chemica and Berni.						
		Total lecture ho	urs		72			
Text Books:								
	R.B (2009), U	Irban Geography: A Text Book; Concept Publishing Co., I	New	Delh	i.			
		Cities, Urbanisation and Urban Systems, Kisalaya publica						
New De		Ciues, Ordanisation and Ordan Systems, Risaraya publica	ıuon	rvi.	Liu			
·								

Books	s For Reference:
1	Ramachandran .R (1989), Urbanization and Urban Systems in India, Oxford University Press,
	Delhi 4 .Beaujeau Garnier .J (1966), Geography of Population, Longman Group, London.
2	B.N.Ghosh (1985), Fundamentals of population geography, sterling publishing, New Delhi.
3	Richmond W. Longley (1970). Elements of Meteorology, John Willey & sons Inc., New York.
4	Chandha, R.C (1986), A Geography of population, Concepts, patterns, Kalyani publishers, New
	Delhi.
5	A Geography of Population, World patterns, John Wiley & sons. New York.
Relate	ed Online Contents:
1	http://ncert.nic.in/ncerts/l/legy110.pdf
2	http://ncert.nic.in/ncerts/l/legy110.pdf
Cours	se Designed By: G. Lisha

Mappi	Mapping with Program Outcomes									
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	M	S	S	S	S	M	S
CO2	M	S	M	S	L	M	S	M	S	M
CO3	S	M	S	S	_Lon8	BUS <sub>LO</sub>	L	S	S	M
CO4	M	S	S	M	S	M	S	S	M	S
CO5	S	M	S	S	S	S	M	S	S	S

Course code 3AC	ELEMENTS OF CARTOGRAPHY	L	T	P	С			
Core/ Elective/ Supportive	Allied	5	0	0	4			
Pre-requisite	Basic knowledge of art of mapping work	Sylla versi			21- )22			
Course Objectives:		-						
	c concepts, techniques of cartography. After comp	pletion o	of co	urse	the			
students will understand the art	and science of map making.							
Course Outcomes:								
	the students will have ability to:			K2				
CO1 Read and prepare the m	1 1							
	<u> </u>			K1 K3				
CO3 Use and importance of a CO4 Understand the types of	maps for regional development and decision-making	<u>·                                      </u>		K3				
	tography knowledge form the yearly period.			K2				
	and; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;			<u> </u>				
<b>XI</b> - Nemember, <b>XZ</b> - Understa	mio, No - Appry, Na - Anaryze, No - Evaruate,							
Unit- I	Cartography		18	hou	rs			
	e and Content – Maps: types and uses – Branch	nes of C						
Development of Cartography fi			artog		<u>y</u>			
Unit- II	Map Scales		10	18 hours				
	Map Scales – Enlargement and Reduction – Direction	on and E						
ordinate System – Projection: C		————	<u></u>	g – <b>(</b>				
Unit- III	Map data		18	hou	rc			
	ification – Base map – Complication – Generalization	n.		1100				
True during control and crues								
Unit- IV	Map Design and Layout		18	hou	rs			
Map Design and Layout: Sym	bolization – Lettering Styles, Standardization of N	James –J	Mech	anic	s of			
	aterials, Equipment's and Instruments.							
Unit- V	Thematic and Complex Mapping			hou				
	ng – Topographic Mapping - Atlas Mapping – Map	ping Org	ganiza	ıtion	s of			
India: GSI, SOI- NATMO –Re	cent trends in Cartography.							
	m . 11 .							
Trans De aleman	Total lecture	hours	<u> </u>	90				
	, A., (2002), Fundamentals of Cartography, Concept	Publicat	ion					
Company, New Delhi.								
	Elements of Cartography, John Wiley, London.							
Books For Reference:	W							
·	lkinson, H.R., (1989), Maps and Diagrams, B.I.Publi				າາ.			
	), Puvippadaviyaloor arimugam, Sree Meenakshi Of		adura	1.				
	derstanding Maps, Longman, London and New York							
	eral Cartography, McGraw Hill Company., New Yor	ľK						
5 Lawrence, G.R.P., (1979)	), Cartographic Methods, Methuen, London.							

Related Online Contents:					
1	https://en.wikipedia.org/wiki/Cartography				
2	https://en.wikipedia.org/wiki/Cartographic_design				
Cour	rse Designed By: B. Sasikumar				

Mapping	with Pro	ogram Ou	tcomes							
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	S	S	S
CO2	S	S	M	S	M	S	S	M	L	M
CO3	S	M	S	S	S	M	M	S	S	S
CO4	M	S	S	M	S	S	S	S	M	S
CO5	S	S	S	S	L	S	M	S	S	M

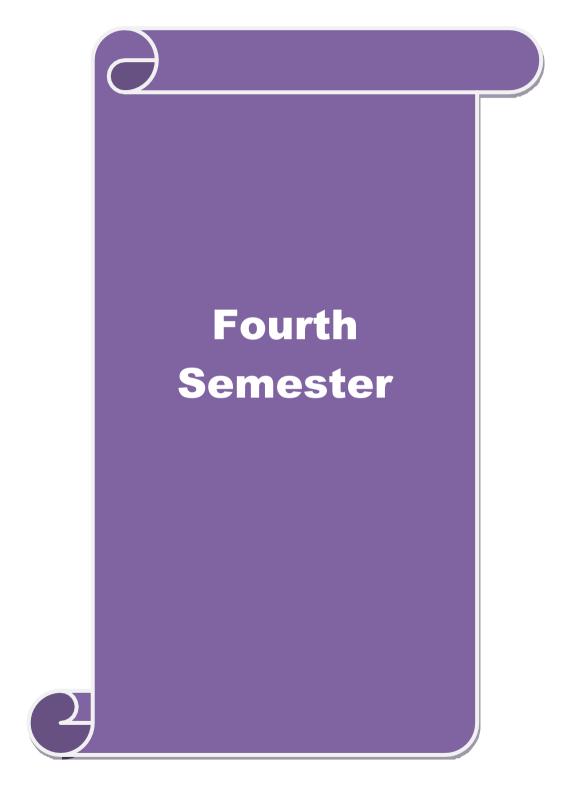


Course code	e 3ZA	BASICS IN COMPUTER L	T	P	С			
Core/ Electiv	ve/ Supportive	Skill Based 3	0	0	3			
Pre-requisite	9		abus sion		21- )22			
Course Obje	ctives:							
		s should: learn basic principles of using Windows operation		m, le	earn			
and practice l	oasic keyboardin	g and mouse use and search engines, and locate www addres	ses.					
<u> </u>								
Course Outo		a the students will have shility to						
	features of Micr	e, the students will have ability to:		K	)			
	Improve the basic knowledge for computer operating system.							
1	he very use full to power point presentation for research work.							
	ata analyzed and prepare the chart and table.							
	<u> </u>	and Google uses		K2				
		stand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;	L					
		***						
Unit- I		Meaning of computer		hou				
		nputer- history of computer – advantage of computer. – uses	of cor	nput	er –			
types of comp	puter – parts of c	computer – computer hardware and software.						
TT .*4 TT		N.K.C. (SPEC)	111	1				
Unit- II		MS office		hou				
		rocessing – features of word processing – menu and comma						
		n toolbars – creation documents – saving and documents	– prin	ting	and			
documents –	paragraph setting	g – working with tables.						
Unit- III		Introduction to MS- excel	11	hou	ırc			
	to MS- excel -	features of ms-excel – spread sheet – work sheet cell – cel						
		ndow – creating excel sheet, functions in excel sheet – chart.	pomi	CI	CCII			
		S. Marious,						
Unit- IV		Microsoft PowerPoint	11	hou	ırs			
Microsoft Po	werPoint: power	point basics – create presentation – insert and modify text –	insert	and	edit			
animation and	d slide transition	S.						
Unit- V		The internate interesting	1.0	han	ırs			
		The internet: introduction						
		internet history – use of internet – World Wide Web - crea			nail			
		internet history – use of internet – World Wide Web - creawnloading and uploading.	ition a	n e-ı	nail			
account- sear		internet history – use of internet – World Wide Web - crea	ition a		nail			
account– sear	ch engines – do	internet history – use of internet – World Wide Web - crea wnloading and uploading.  Total lecture hours	ation a	n e-ı	nail			
account- sear	ch engines – dov ajaraman. V" Fu	internet history – use of internet – World Wide Web - creatwhold with which will will will web - creatwhold with which will will web - creatwhold with which will web - creatwhold with which will will web - creatwhold with which will will web - creatwhold with which will web - creatwhold with which will web - creatwhold with which will web - creatwhold with whic	ation a	n e-ı	nail			
Text Books:  1 R	ch engines – dov ajaraman. V" Fu	internet history – use of internet – World Wide Web - crea wnloading and uploading.  Total lecture hours	ation a	n e-ı	nail			
Text Books:  1 Ra 2 Ra	ajaraman. V" Fu	internet history – use of internet – World Wide Web - creatwhold with which web - creatwhold with which will web - creatwhold with which will will web - creatwhold with which will will web - creatwhold with which will web - creatwhold with which will web - creatwh	ation a	n e-ı	nail			
Text Books:	rch engines – dovajaraman. V" Furam. B," Compute	internet history – use of internet – World Wide Web - creatworld and uploading.  Total lecture hours  Indamentals of Computers" Prentice Hall India Pvt., Limited, er Fundamentals" New Age International Publishers, 2014	2004	n e-ı	nail			
Text Books:	rch engines – dovagaraman. V" Furam. B," Compute eference:	internet history – use of internet – World Wide Web - creatwolloading and uploading.  Total lecture hours  Indamentals of Computers" Prentice Hall India Pvt., Limited, er Fundamentals" New Age International Publishers, 2014  The sews Leon, Introduction to Computers, Leon Techworld. 19	2004 99	54	nail			
Text Books:	ajaraman. V" Furam. B," Compute eference: lexis Leon, Mathorowitz. E. and S	internet history – use of internet – World Wide Web - creatworld and uploading.  Total lecture hours  Indamentals of Computers" Prentice Hall India Pvt., Limited, er Fundamentals" New Age International Publishers, 2014	2004 99	54	nail			
Text Books:	ajaraman. V" Furam. B," Compute  eference: lexis Leon, Mathorowitz. E. and Sompany	internet history – use of internet – World Wide Web - creatwolloading and uploading.  Total lecture hours  Indamentals of Computers" Prentice Hall India Pvt., Limited, er Fundamentals" New Age International Publishers, 2014  The sews Leon, Introduction to Computers, Leon Techworld. 19	2004  99 reeman	54	mail			

Related Online Contents:						
1	https://www.tutorialspoint.com/basics_of_computers/basics_of_computers_introduction.htm					
2	https://en.wikibooks.org/wiki/Computers_for_Beginners/The_Basics					
Course l	Designed By: M. Logamani					

Mapping	with Pro	ogram Ou	tcomes							
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	S	S	S
CO2	S	S	M	S	S	S	S	M	S	M
CO3	S	M	S	S	S	S	M	S	S	S
CO4	M	S	S	M	S	M	S	S	L	M
CO5	S	S	M	S	L	S	S	S	S	S





Course	code	43A	OCEANOGRAPHY	L	T	P	C
Core/ E	lective/	Supportive	Core	4	0	0	4
Pre-req	uisite		Basic knowledge in coastal landforms	Sylla vers			)21- )22
Course	Object	ives:					
			eans and Bottom relief Features.				
To learn	about t	he Ocean Curre	ents, Ocean Deposits and Conservation of marine reso	ource.			
Course	Outcor	nes:					
After th	e compl	etion of course,	the students will have ability to:				
			process and availability of resources.			K.	2
		relief of the oce				K	
			I salinity level from the world.			K.	
			s the coastal land forms.			K.	3
	Understa features		e mineral resource deposit form the ocean bottom of	the reli	ef	K	2
			and; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;				
			" <sup>क</sup> ्रिक्स् किस्प्रिया				
Unit- I			O <mark>cean</mark> ography		15	hou	ırs
Oceano	graphy:	Definition, sco	ope and content – Oceans and Seas: Extent and I	Distribu	tion -	-Sur	face
		of Ocean Floor	<ul> <li>Continental Shelf - Continental Slope - Absyss</li> </ul>	al Plain	- De	eps	and
Trenche	es.						
	- 1						
Unit- I		2.5.10	Bottom relief features		14	hou	irs
Bottom	relief fe	eatures of Pacific	c, Atlantic and Indian Oceans.				
Unit- I	П		Ocean Temperature and Salinity		15	hou	ırs
		ture and Salini	ty: Distribution and factors - Horizontal and Vertica	al – Fac			
		d Salinity Distr					
Unit- IV	V		Ocean Water Movements		14	hou	ırs
		Iovements: Wav	ves and Tides - Ocean Currents: types - currents of	Pacific	, Atla	ntic	and
Indian (	Oceans.						
Unit- V	7		Oceans Deposits		14	hou	ırs
Oceans	Deposit	ts: types – Co	oral reefs: Formation and Types – Oceans resor	urces a			
Conserv		<b>71</b>					
			Total lecture	houre		72	
			Total lecture	Hours		12	
Text Bo	noks:						
1	Mon		d Wilkinson, H.R., (1989), Maps and Diagrams, B.I.I	Publicat	ions,	New	7
2	Dell		2014) Duvinnadavivaloon animugam Smaa Maanalah	oi Offac	to M.	dur	
2		· · · · · · · · · · · · · · · · · · ·	2014), Puvippadaviyaloor arimugam, Sree Meenaksh				<u>11.</u>
3	Sing	n, K. L., (2005)	, Elements of Practical Geography, Kalyani Publishe	rs, New	Dein	11.	

Books Fo	r Reference:
1	Gopalsingh, (1996), Map work and practical geography, Vikas Publishing House Pvt.Ltd.,
2	Khullar, (1997), Practical Geography, Educational Publishers, New Delhi.
3	Zulfequar Ahmad Khan, M. D., (1998), Text Book of Practical Geography, Concept Publishing Company, New Delhi.
4	Pijushkanti Saha and Partha Basu, (2010), Advanced Practical Geography, Books and Allied Pvt. Ltd, Kolkata.
Related (	Online Contents:
1	https://en.wikipedia.org/wiki/Oceanography
2	https://www.uv.es/hegigui/Kasper/por%20Robert%20H%20Stewart.pdf
Course D	esigned By: Dr. J. Ganesan

Mapping v	Mapping with Program Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	M	S	S	S	S	S	S	S	S	M			
CO2	S	S	M	S	M	S	S	M	S	S			
CO3	S	M	S	S	S	S	M	S	S	S			
CO4	M	S	S	M	L	M	S	S	M	M			
CO5	S	S	S	. S. 600°	S	S	S	M	S	L			



Cou	rse code	43P	MAP INTERPRETATION AND REPRESENTATION OF CLIMATIC DATA – PRACTICAL	L	T	P	С			
Core	/ Elective/	Supportive	Core	0	0	4	4			
Pre-r	Pre-requisite Basic Knowledge of map reading and daily weather report observation Syllabur version									
	se Object									
			ey of India Topographic sheets, SOI and USGS Maps. eather report and climatic diagrams.							
Cour	rse Outcor	nes:								
			e, the students will have ability to:			K				
CO1	To understand the toposheet practical knowledge.									
CO2	_		symbols real world features.			K1				
CO3			pply daily weather report.			K:				
CO4		the climatic d	<u> </u>			K3				
CO5		and the climat				K2	2			
K1 -	Remembe	r; <b>K2</b> - Unders	stand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;							
Unit	t- I		Survey of India Topographic Maps		15	hou	ırs			
Surve	ey of India	Topographic	Maps: Conventional Sings and Symbols – Cartograph	ic App						
		f SOI maps.								
			<b>5 C C C C C C C C C C</b>							
Unit			Indian Daily Weather Reports			hou				
India	n Daily W	eather Reports	s: Sings and Sy <mark>mbols — Station model</mark> - Interpretation o	f Weat	her R	epor	ts.			
			E THAT IS							
Unit			Climatic Diagrams and Graphs		14	hou	irs			
Clima	atic Diagra	ams: Graphs: T	Taylor's Climograph – Hythergraph and Ergograph.							
Unit-	TT7		FOUCATE TO ELEVATE		11	1				
_	*	oma, Dainfall I	Climatic Diagrams	70,000		hou	ırs			
Cilina	anc Diagra	ams: Kamian i	Dispersion – Wind Rose: Simple, Star, Octagonal and C	-ompot	ına.					
Unit			Record		14	hou	rs			
Reco	rd work –	20 Marks								
			Total lecture	hours	<u> </u>	72				
Tovt	Books:				<u> </u>					
1		use FI and W	Vilkinson, H.R., (1989), Maps and Diagrams, B.I.Public	rations	New	Del	hi			
1	WIOIIKIIO	use, i .s. and v	rikinson, 11.1x., (1707), waps and Diagrams, D.1.1 uon	zations.	, 110 00	<u> </u>	.111.			
-	s For Ref									
1	Pijushka Ltd, Kol		artha Basu, (2010). Advanced Practical Geography, Bo	oks an	d Alli	ed (l	P)			
2		ır Ahmad Khaı y, NewDelhi.	n, M. D., (1998). Text Book of Practical Geography, Co	oncept	Publi	shin	g			
3			lements of Practical Geography, Kalyani Publishers, No							
4			Iap work and practical geography, Vikas Publishing Ho	ouse Pv	t. Ltd	.,				
5	Khullar,	(1997). Practic	cal Geography, Educational Publishers, New Delhi.							

Rela	Related Online Contents:								
1	http://ncert.nic.in/textbook/pdf/legy303.pdf								
2	https://ncert.nic.in/textbook/pdf/kegy308.pdf								
Cour	rse Designed By: M. Panneer selvam								

Mapping	Mapping with Program Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	S	S	S	M	S	S	S	S	M	S			
CO2	M	S	M	S	S	S	S	M	S	S			
CO3	S	M	S	S	M	S	M	S	S	M			
CO4	M	S	S	M	S	M	S	S	M	S			
CO5	S	M	S	S	L	S	S	M	S	S			



Course code	43Q	CARTOGRAPHY – PRACTICAL L	T	P	C					
Core/ Elective/	Supportive	Allied 0	0	5	4					
Pre-requisite		Basic knowledge of Atlas Reading Sylla vers			21- )22					
Course Objecti	ives:	1010	1011							
The course pro	vides the basic	c concepts, techniques of cartography. After completion	of co	urse	the					
		s and science of map making. The practical course is to pro-								
		ojection and learn various mapping techniques to the student								
Course Outcon										
		the students will have ability to:		K2						
CO1 Have sound knowledge regarding the classification and elements of maps										
1	1	of maps for the development		K1						
		develop map construction for feature plan.		K3						
		d mapping practical knowledge.		K3						
		ry use full to simple and bar diagrams.		K2	<u>'</u>					
KI - Remember	; <b>K2</b> - Understa	and; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;								
Unit- I		Map Projections	15	hou	mc.					
	es types Con	struction, Properties and uses of Conical Projection – On								
		d Polyconic Projection. Construction, properties and uses of								
		qual area Projection.	лсу	mai	ıcaı					
Trojection Eq	ar distant and co	qual area i fojection.								
Unit- II	Pro	operties and uses of Zenithal Projection	18	hou	rs					
LIUDELLES AUC	11365 OF ASHIII	al Projection – Equal area (inomonic Stereographic and	Ortho	ograr	ohic					
		al Projection – Equal area, Gnomonic, Stereographic and	Ortho	ograp	ohic					
(Polar cases only		al Projection – Equal area, Gnomonic, Stereographic and	Ortho	ograp	hic					
		Drawing of Graphs		ograp hou						
(Polar cases only Unit- III	y)	E TRANSPORT								
(Polar cases only Unit- III	y) phs: Line graph	Drawing of Graphs								
Unit- III Drawing of Gra  – Lorenz Curve.	y) phs: Line graph	Drawing of Graphs  The Simple and Multiple – Frequency Curve – Histogram  The Simple and Multiple – Frequency Curve – Histogram	18	hou	rs					
Unit- III Drawing of Gra – Lorenz Curve. Unit- IV	y) phs: Line graph	Drawing of Graphs  The Simple and Multiple – Frequency Curve – Histogram  Diagrams	18	hou	rs					
Unit- III  Drawing of Gray  – Lorenz Curve.  Unit- IV  Diagrams: Bar of	y) phs: Line graph	Drawing of Graphs  The Simple and Multiple – Frequency Curve – Histogram  The Simple and Multiple – Frequency Curve – Histogram	18	hou	rs					
Unit- III  Drawing of Gray  – Lorenz Curve.  Unit- IV  Diagrams: Bar of	y) phs: Line graph	Drawing of Graphs  The Simple and Multiple – Frequency Curve – Histogram  Diagrams	18	hou	rs					
Unit- III Drawing of Gray – Lorenz Curve.  Unit- IV Diagrams: Bar of Maps.	y) phs: Line graph	Drawing of Graphs  Simple and Multiple – Frequency Curve – Histogram  Diagrams  ple and Compound – Circle and Sector – Isopleths and Chor	18	hou hou	rs rs low					
Unit- III Drawing of Gray – Lorenz Curve.  Unit- IV Diagrams: Bar of Maps.  Unit- V	y) phs: Line graph . diagrams - Simp	Drawing of Graphs  The Simple and Multiple – Frequency Curve – Histogram  Diagrams	18	hou	rs rs low					
Unit- III Drawing of Gray – Lorenz Curve.  Unit- IV Diagrams: Bar of Maps.  Unit- V	y) phs: Line graph . diagrams - Simp	Drawing of Graphs  Simple and Multiple – Frequency Curve – Histogram  Diagrams  ple and Compound – Circle and Sector – Isopleths and Chor	18	hou h - F	rs rs low					
Unit- III  Drawing of Gray  – Lorenz Curve.  Unit- IV  Diagrams: Bar of Maps.  Unit- V  Record – 20 Ma	y) phs: Line graph . diagrams - Simp	Drawing of Graphs  Simple and Multiple – Frequency Curve – Histogram  Diagrams  ple and Compound – Circle and Sector – Isopleths and Chor	18	hou hou	rs rs low					
Unit- III  Drawing of Gra  Lorenz Curve.  Unit- IV  Diagrams: Bar of Maps.  Unit- V  Record — 20 Ma  Text Books:	phs: Line graph diagrams - Simp	Diagrams ple and Compound – Circle and Sector –Isopleths and Chor  Record  Total lecture hours	18 18 opletl	hou h - F hou	rs low					
Unit- III  Drawing of Gray  Lorenz Curve.  Unit- IV  Diagrams: Bar of Maps.  Unit- V  Record — 20 Marticle Maps.  Text Books:  1 Monkhous	phs: Line graph diagrams - Simp	Diagrams  ple and Compound – Circle and Sector –Isopleths and Chor  Record  Total lecture hours  kinson, H.R., (1989), Maps and Diagrams, B.I.Publications,	18 ropletl 18 New	hou hou h - F	rs low					
Unit- III  Drawing of Gray  Lorenz Curve.  Unit- IV  Diagrams: Bar of Maps.  Unit- V  Record — 20 Marticle Maps.  Text Books:  1 Monkhous	phs: Line graph diagrams - Simp	Diagrams ple and Compound – Circle and Sector –Isopleths and Chor  Record  Total lecture hours	18 ropletl 18 New	hou hou h - F	rs low					
Unit- III Drawing of Gray – Lorenz Curve.  Unit- IV Diagrams: Bar of Maps.  Unit- V Record – 20 Mar  Text Books:  1 Monkhous 2 SethuRakk	phs: Line graph diagrams - Simp arks se, F.J. and Will kayi, S., (2014).	Diagrams  ple and Compound – Circle and Sector –Isopleths and Chor  Record  Total lecture hours  kinson, H.R., (1989), Maps and Diagrams, B.I.Publications,	18 ropletl 18 New	hou hou h - F	rs llow					
Unit- III  Drawing of Gray  Lorenz Curve.  Unit- IV  Diagrams: Bar of Maps.  Unit- V  Record — 20 Ma  Text Books:  1 Monkhous  2 SethuRakk	phs: Line graph diagrams - Simp arks se, F.J. and Will kayi, S., (2014).	Diagrams ple and Compound – Circle and Sector –Isopleths and Chor  Record  Total lecture hours  kinson, H.R., (1989), Maps and Diagrams, B.I.Publications, Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, Mac	18 opletl 18 New l	hou h - F hou Delh	rs llow					
Unit- III  Drawing of Gray  — Lorenz Curve.  Unit- IV  Diagrams: Bar of Maps.  Unit- V  Record — 20 Mar  Text Books:  1 Monkhous  2 SethuRakk  Books For Reference  1 Pijushkant	phs: Line graph diagrams - Simplerks se, F.J. and Will kayi, S., (2014).	Diagrams  ple and Compound – Circle and Sector –Isopleths and Chor  Record  Total lecture hours  kinson, H.R., (1989), Maps and Diagrams, B.I.Publications,	18 opletl 18 New l	hou h - F hou Delh	rs llow					
Unit- III  Drawing of Gray  Lorenz Curve.  Unit- IV  Diagrams: Bar of Maps.  Unit- V  Record — 20 Ma  Text Books:  1 Monkhous  2 SethuRakk  Books For Reference of Pijushkant Ltd, Kolka	phs: Line graph diagrams - Simp arks se, F.J. and Will kayi, S., (2014). erence: ti Saha and Part ata.	Diagrams  ple and Compound – Circle and Sector –Isopleths and Chor  Record  Total lecture hours  kinson, H.R., (1989), Maps and Diagrams, B.I.Publications, Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, Macha Basu, (2010). Advanced Practical Geography, Books and	18 ropleth 18 New durai.	hou h - F hou Delh	rs llow					
Unit- III  Drawing of Gray  Lorenz Curve.  Unit- IV  Diagrams: Bar of Maps.  Unit- V  Record — 20 Ma  Text Books:  1 Monkhous  2 SethuRakle  Books For Reference  1 Pijushkant  Ltd, Kolka  2 Singh, R.	phs: Line graph diagrams - Simp arks se, F.J. and Will kayi, S., (2014). erence: ti Saha and Part ata. L., (2005). Elen	Diagrams ple and Compound – Circle and Sector –Isopleths and Chor  Record  Total lecture hours  kinson, H.R., (1989), Maps and Diagrams, B.I.Publications, Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, Macha Basu, (2010). Advanced Practical Geography, Books and ments of Practical Geography, Kalyani Publishers, New Delh	18 18 opletl 18 New l durai. Allie	hou h - F hou Delh	rs llow					
Unit- III  Drawing of Gray — Lorenz Curve.  Unit- IV  Diagrams: Bar of Maps.  Unit- V  Record — 20 Mar  Text Books:  1 Monkhous 2 SethuRakk  Books For Reference And Manual Mark  Ltd, Kolka 2 Singh, R. In Gopal sing	phs: Line graph diagrams - Simple of the set	Diagrams  ple and Compound – Circle and Sector –Isopleths and Chor  Record  Total lecture hours  kinson, H.R., (1989), Maps and Diagrams, B.I.Publications, Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, Macha Basu, (2010). Advanced Practical Geography, Books and	18 Opletl  18 New I durai. Allie i. Ltd.,	hou h - F hou Delh	rs llow					

Rela	Related Online Contents:							
1	https://www.researchgate.net/publication/325185733_A_Practical_Framework_for_Cartographic_							
	Design							
2	https://ncert.nic.in/textbook/pdf/kegy3ps.pdf							
Cou	rse Designed By: Dr. D.Yuvaraj							

Mapping wit	Mapping with Program Outcomes													
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10				
CO1	S	S	S	S	S	S	S	S	S	M				
CO2	S	S	M	S	S	S	S	M	M	S				
CO3	S	M	S	S	S	S	M	S	S	L				
CO4	M	S	M	M	S	M	S	S	M	S				
CO5	S	M	S	S	L	S	S	S	S	M				



Cou	Course code 4ZB BASICS OF GIS AND GPS L T										
Core	/ Elective	Supportive	Skill Based	3	0	0	3				
Pre-r	equisite		Basic Knowledge in computer	Sylla			21- )22				
Cour	se Object	iroc.		vers	ion	20	144				
			ision making and planning.								
10 Pi	rovide eiii	cient means for dat	a distribution and handling.								
Cour	se Outco	mes:									
After			e students will have ability to:			K					
CO1	CO1 Understand various components and principles of GIS										
CO2			os using different digital layers			<b>K</b> 1					
CO3		GIS in various geog	<del>-</del>			K3	3				
CO4	Have co	omprehensive unde elopment planning.	erstand of GIS for the construction of maps and	their u	se	K3	3				
CO5			GPS for the accurate location			K2	2				
K1 -			; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;		I						
Unit	t- I		GIS: Definition		11	hou	rs				
GIS:	Definition	- Scope and Devel	opment - Components – GIS and Geography.								
Unit	- II		GIS Data		11	hou	rs				
GIS I	Data: Spat	ial and Non–Spatia	l -Sourc <mark>es of Data – Data Structure</mark> : Raster and Ve	ctor.							
			The state of the s								
Unit	- III	Fı	unctions and Organizational Aspects		11	hou	rs				
			ects: RDBMS – GIS software- Geo-referencing–I	Digitiza	tion-	Edit	ing-				
Data	Storage –	Analysis – Bufferin	ng – Map design a <mark>nd layo</mark> ut.								
			Distingent of This party		1						
Unit-			Applications of GIS		11	hou	rs				
Appl	ications of	GIS - Agriculture	<ul><li>Environment – Urban and Disaster</li></ul>								
					1						
Unit			GPS		10	hou	rs				
GPS:	Segments	s - Errors – Measure	ement – Uses and Applications.								
			Total lecture	hours		54					
	Books:										
1		wood, 2009), An In , New Delhi.	troduction to Geographical Information System, Po	earson !	Educa	ation					
2		_	, A. and McDonnell, (1998), Principles of Geography Press Inc., New York.	hical I	nforn	natio	n				
3	LO, C.P.		g, (2007), Concepts and Techniques of Geographi	c Infor	natio	n					
4		ldy, M., (2004), Ge	oinformatics for Environmental Management, BS	Publica	itions	,					
	Tryuerab	au.									

Book	s For Reference:								
1	Kang-tsungchang, (2006), Introduction to Geographic Information systems, Tata McGraw –Hill								
	Publishing Company Limited, New Delhi.								
2	Kumar, S., (2003), Basics of Remote sensing and GIS, Laxmi publications, New Delhi.								
3	Chang, Kang-tsung (2002), Introduction to Geographic Information Systems, Tata McGraw Hills								
	Publishing Company Ltd, New Delhi.								
4	Siddique, M.A. (2006), Introduction to Geographical Information Systems, Sharda Pustak								
	Bhawan, Allahabad.								
Rela	ted Online Contents:								
1	https://en.wikipedia.org/wiki/Geographic_information_system								
2	https://en.wikipedia.org/wiki/Global_Positioning_System								
Cour	se Designed By: Dr. D.Yuvaraj								

Mapping	Mapping with Program Outcomes													
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10				
CO1	S	S	S	S	M	S	S	S	S	M				
CO2	S	S	M	S	S	M	L	M	S	S				
CO3	S	M	S	S	L	S	M	S	S	M				
CO4	M	S	S	M	S	S	S	S	M	S				
CO5	S	S	M	S	M	S	S	M	S	S				



Course code	53A	GEOGRAPHY OF NATURAL REGIONS OF THE WORLD	L	T	P	С				
Core/ Elective/	Supportive	Core	6	0	0	4				
Pre-requisite		Basic knowledge of Atlas Reading	Sylla vers			)21- )22				
<b>Course Object</b>	ives:		I							
		are to give an overview of the land, natural vegetation so that the students are aware of world resources.	and eco	onomy	of t	he				
Course Outcor	nes:									
		e, the students will have ability to:								
		nt geographical natural region form the world			K'	2				
		region natural life and economic level.			K	1				
		region natural life and economic level.			K.	3				
		n variation of natural resource and climatic conditions	•		K'					
CO5 Polar regions understand the climate and animal life.										
K1 - Remember	r; <b>K2</b> - Unders	tand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;								
Unit- I		Region: Definition		22	hou					
	tion Mathod	ls of delineation of regions – Formal and functional	ragior							
		- Natural vegetation – Natural resources and Economic								
Unit- II		Tropical Regions		22	hou	irs				
Tropical Region and Economic of		Climate - Monsoon - Natural vegetation- Animal lif	e - Nat	ural r	esou	rces				
Unit- III		Warm Temperate Regions		22	hou	ırs				
Warm Tempera		Iediterranean: China and steppe: Situation - Climate es and Economic development.	- Natui							
Unit- IV		Cool Temperate Regions		22	hou	ırs				
Cool Temperate		est European, Prairie: Situation - Climate – Natural ve omic development.	getatio							
Unit- V		Cool Temperate Polar Regions		20	hou	ırs				
	_	s: Tundra: Situation - Climate – Natural vegetation - A	Animal							
		Total lecture	hours		108					
Text Books:										
	L., (1971), Inc	lia: A Regional Geography, NGSI, Varanasi.								
		the World Regional Geography, Orient Longman Lim	ited, N	ew De	lhi.					

Book	as For Reference:
1	Darshan Singh Manku (1998), A Regional Geography of the world, Kalyani publishers, New Delhi.
2	Goh Cheng Leong (1982), Human & Economic Geography, Oxford University Press, New York.
3	Khanna, K.K. and Gupta, V.K., (1988), Economic and Commercial geography, Sultan Chand and
	Sons, New Delhi.
Relat	ted Online Contents:
1	http://www.ncert.nic.in/ncerts/l/gess206.pdf
2	https://en.wikipedia.org/wiki/Natural_region
Cour	se Designed By: P. Umasankar

Mapping with Program Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	M	S	S	S	S	M	S		
CO2	S	S	M	S	L	S	S	M	S	S		
CO3	S	M	S	S	M	S	M	S	S	M		
CO4	M	S	S	M	S	M	S	S	M	S		
CO5	S	S	S	S	S	S	S	M	S	S		

Course code	53B	GEOGRAPHY OF TAMILNADU	L	T	P	С				
Core/ Elective/	Supportive	Core	6	0	0	3				
Pre-requisite		Basic knowledge of districts and places in	Sylla	bus	20	21-				
		Tamilnadu	vers	ion	20	)22				
Course Object	ives:				ı					
		on, physiography and climate of Tamil Nadu								
To learn about a	agricultural, mir	nerals, industrial and human resources of Tamil Nadu	•							
Carriago Oratogo										
After the compl		the students will have ability to:								
		I features and distribution.			K2	2				
CO2 Know the agriculture practices of commercial and plantation crops.										
		source and deposition of region.			K3					
		es and distribution.			K3	3				
	• • •	pes and population variation in district level.			K2	2				
K1 - Remember	r; <b>K2</b> - Understa	and; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;								
Unit- I		Location and extent		22	hou	ırs				
Location and ex	tent-Physical d	ivisions–Climate–Rivers-Soils and Natural vegetation	ıs.							
Unit- II		Agriculture and Irrigation		22	hou	ırs				
Agriculture and	Irrigation: Typ	pes and distribution – Problems – Major crops: Paddy	y, Suga							
		ps: Tea, Coffee and Rubber.			,					
		- To to								
Unit- III		Minerals and Power Resources			hou					
		s: Coal, Iron ore, Petroleum, Atomic and Thermal p	ower -	Majo	r Hy	ydal				
Projects – Non-	conventional er	nergy sources: Solar and Wind energy.								
Unit- IV		Industries		20	l. a.r.					
	on toytilas Co	ment – Sugarcane – Chemical - Paper and Automobil	00	20	hou	irs				
mausures. Com	on textiles – Ce	ment – Sugarcane – Chemicai - Paper and Automobil	es.							
Unit- V		Population		22	hou	ırs				
Population, Tra	nsport and Trac	de: Population Growth and Distribution – Rural and	Urban	Popu	ılatic	on –				
Transport: types	s – Major Road	ways, Railways and Airways – Trade.								
1		m 4 2 2 4	1	ı	100					
Toy Dooles		Total lecture	nours		108					
Text Books:	10mx V (2014)	Coography of Tomil Noder Colethi Abinomi Dellist	oma 17		0.10.00	<u> </u>				
1 Kumarasv	vainy, v., (2014 <sub>)</sub>	), Geography of Tamil Nadu, Sakthi Abirami Publish	ers, Ku	шоак	onan	11.				
2 Kullar, D.	R. (2010), Indi	a: A Comprehensive Geography, Kalyani Publishers,	New D	elhi.						

Boo	ks For Reference:
1	Gopal Singh (1988), A Geography of India, Atnaram & sons, New Delhi.
2	Ramesh, A and Tiwari, P.S., (1983), Basic Resources Atlas of Tamil Nadu, Dept. of Geography,
	University of Madras, Chennai.
3	Sharma, T.C. (2003), India: An Economic & Commercial Geography, Vikas Publishing House Pvt.
	Ltd., New Delhi.
4	Velappan, D., (1986), Economic Development of Tamil Nadu – Emerald Publishers, Chennai.
Rela	nted Online Contents:
1	https://en.wikipedia.org/wiki/Geography_of_Tamil_Nadu
2	http://shodhganga.inflibnet.ac.in/bitstream/10603/83973/6/nayeema_chapter2.pdf
Cou	rse Designed By: Dr. B. Sasikumar

Mapping with Program Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	S	S	S	S	S	S	S		
CO2	S	S	M	S	S	S	S	M	M	S		
CO3	S	M	S	S	M	S	M	S	S	M		
CO4	M	S	S	M	S	க்பு	S	S	M	S		
CO5	S	S	S	S	S&L	S	S	S	S	S		

Course code	53C	GEOGRAPHY OF	RESOURCES - I	L	T	P	С					
Core/ Elective	e/Supportive	Cor	e	6	0	0	4					
Pre-requisite		Basic knowledge in	1 Atlas Reading	Syllal versi			21- )22					
Course Objec	tives:											
		proaches of natural resourc										
To examine us	e of various res	ources and to analyze future	prospects,									
Course Outco												
		, the students will have abil	ity to:									
		vledge of resource and envi	•			K2	,					
Demon		knowledge of the rol		play	in	112						
CO2 analyzi enviror	CO2 analyzing resource, environmental degradation and improving resource, environmental management.											
		nd conservation.				K3						
		rce importance and conserv				K3						
		ture resource and crop types				K2						
KI - Remembe	er; <b>K2</b> - Unders	and; <b>K3</b> - Apply; <b>K4</b> - Ana	lyze; <b>K5</b> - Evaluate;									
Unit- I		Geography of Reso	ureos		22	hou	rc					
	Recourses: De	finition, Scope and Conter		haracteri								
		Conservation of Resources.	it - Classifications - C		stic a	iiu u						
Unit- II			<u> </u>		22	1						
	Earmation C	<b>Soil resources</b> oil Profile — <b>Classification a</b>		Soil ore		hou						
Conservation.	. Pormation - S	on Frome – Classification at	id distribution - Pertifity	, son erc	SIOII	anu .	3011					
Conservation.		S THE	VERS ES									
Unit- III		Forest Resource	ces sold		22	hou	rs					
Forest Resource - Forest Produce		Tropical – Temperate and	Polar - Distribution and	Econom	c Imp	orta	nce					
Unit- IV		Animal Resource	PPG		20	hou	rs					
	rces: Livestock	- Cattle - Types – Pigs and		istributio								
Importance.	icos. El vestoch	cause Types Tigs and	Tourny Stower and a		. 2							
Unit- V		Agricultural Resor				hou						
		ors Influencing Agriculture		Types -	Geog	raph	ical					
distribution of	Rice, Wheat, C	otton and Sugarcane, Tea ar	nd Coffee.									
			Total lectur	e hours		108						
<u>_</u>			1 otal lectul	· Houls		100						
Text Books:												
1 Alka Gau	utham (2013), C ustak Bhavan, I	eography of resources: Exp	loration, Conservation ar	nd Manag	emer	ıt,						
		), Human & Economic Geo	graphy, Oxford Universi	ty Press,	New	York	ζ.					
		· · · · · · · · · · · · · · · · · · ·										

### **Books For Reference:**

- 1 Alexander J.W., (2006), Economic Geography Prentice Hall of India Pvt. Ltd. New Delhi.
- 2 Khanna K.K. and Gupta, V.K., (2004), Economic and Commercial Geography, Sultan Chand and sons, NewDelhi.
- 3 K. Siddhartha (2004), Economic Geography, Kisalaya Publications Pvt. Ltd.
- 4 Thomas R.S,(1968), Geography of Economic Activity, McGraw Hill Book Company, New Delhi.

### **Related Online Contents:**

- 1 https://www.oxfordbibliographies.com/view/document/obo-9780199874002/obo-9780199874002-0091.xml
- 2 https://gurukpo.com/Content/BA/Geo\_of\_Resorce.pdf

# Course Designed By: M. Panneer selvam

Mapping with Program Outcomes													
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	S	S	S	S	S	S	S	S	S	L			
CO2	S	S	M	S	S	S	S	M	S	S			
CO3	S	M	S	S	L	S	M	S	S	M			
CO4	M	S	S	M	S	M	S	S	M	S			
CO5	S	S	S	S	Siste	ys,S	S	S	S	S			

Cours	e code	53D	REMOTE SENSING AND ITS APPLICATIONS IN GEOGRAPHY	L	T	P	С			
Core/ I	Elective/	Supportive	Core	5	0	0	4			
Pre-rec			Basic knowledge in satellite system	Sylla vers			)21- )22			
	<b>Object</b>									
			ry and types of remote sensing.							
To obta	in about	aerial, satellit	te remote sensing and recent developments.							
	Outcor									
			e, the students will have ability to:							
		-	pment and uses of aerial and satellite remote sensing sy	stem		K	2			
and navigation satellite systems in India and other nations;										
CO2 Understand the basics of EMR and energy interaction in atmosphere and on earth surface features;										
			e types and functions			K3	3			
			ellite remote sensing development and achievement.			K3				
			e sensing application and its uses.			K	2			
			stand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;							
			- A RODOVIO DE LO CO							
Unit-			Remote Sensing			hou				
			- Content - Development - Types - Basic Principle	s - Ele	ectror	nagn	ietic			
Spectru	ım- Ener	gy Interaction	s – Ideal R <mark>emo</mark> te Sensing System.							
	<del>-</del> 1		5		1 40					
Unit- I		<u> </u>	Aerial Remote Sensing			hou				
	Remote nterpreta	Sensing: Air tion	photo – Camera - Film – Scale - Stereoscopic vision	1 – Ele	ement	s of	Aır			
Unit- I	TT		Satellite Remote Sensing		10	hou				
		a Cancina: Cat	tellites - Types – Orbit – Resolution – Sensors – Resolution	ution (						
		SPOT and IKO		ution (	Jiai a	terrs	sucs			
OI LI II V	DDM1,	or or and me	01105.							
Unit- I	V		Remote Sensing in India		18	hou	ırs			
		g in India: IS	SRO – NRSC – IRS Satellites: Sensors – Resolution	and A						
	Develop				11					
Unit- V	V		Applications in Geography		18	hou	irs			
		0 1 0	Water Resources – Forest – Land use - Agriculture – M	ineral	Explo	oratio	on –			
Urban S	Studies a	nd Planning.								
			Total lecture	hours		90				
Text Bo	ooks:		2 0000 1000000		<u> </u>	- 3				
1 Li	illesand,	T.M. and Ralp	ph W. Keifer (2002), Remote Sensing and Image Interp	retatio	n, Joł	n				
			ote Sensing: Principles and Interpretation, Freeman and	Co. Sa	an Fra	ncis	co.			
			nciples of Remote sensing, English Language book soc							
		, , , , _ 111	r	,		,				
	ondon.									

Boo	ks For Reference:
1	AnjiReddy, M., (2004), Geoinformatics for Environmental Management, BS Publications,
	Hyderabad.
2	Chanrda, A.M. and S.K. Ghosh (2006), Remote Sensing and Geographical Information System,
	Narosa Publishing House, New Delhi.
3	Joseph, George (2003), Fundamental of Remote Sensing, University's Press (India) Pvt. Ltd.,
	Hyderabad.
4	Kumar, S., (2003), Basics of Remote sensing and GIS, Laxmi publications, New Delhi.
Rela	ted Online Contents:
1	https://tudip.com/blog-post/what-is-remote-sensing-and-its-applications/
2	https://www.slideshare.net/RashmiYadav45/remote-sensing-and-its-application
Cou	rse Designed By: Dr. D.Yuvaraj

Mapping with Program Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	S	S	S	S	S	S	S		
CO2	S	S	M	S	S	S	S	M	S	S		
CO3	S	M	S	S	M	S	M	S	S	M		
CO4	M	S	S	M	80°S	M	S	S	M	S		
CO5	S	S	S	S	L	S	S	M	S	S		

Cou	rse code 5EA	URBAN GEOGRAPHY	L	T	P	С				
Core	/ Elective/ Supportive	Elective	4	0	0	4				
Pre-1	requisite	Basic knowledge of Urban Environment	Sylla vers			)21- )22				
Cour	rse Objectives:		·							
		Development of Urban Geography.								
To fa	miliarize about Urbaniza	tion, Urban morphology, Urban theories and problems	S.							
	rse Outcomes:									
	<u> </u>	e, the students will have ability to:		-	TZ (					
CO1		mentals and patterns of urbanization process			K2					
CO2	J									
COS			acted		K.	<del>)</del>				
CO4 Study of urban morphology and urban functions with special reference to selected towns need to be encouraged.										
CO5	The trends of urbaniza	•			K	2				
		tand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;								
	,	7 11 37								
Uni	t- I	Urban <mark>Geogra</mark> phy		16	hou	ırs				
		ope and Development – Origin and Evolution of Town								
- Urb	anization: Factors of Urb	oan Growth – World urbanization – Trends of Urbaniza	ation in	India						
	1									
Unit		Urban Morphology			hou					
	n Morphology: Function ate City.	al Classific <mark>ation of Towns - Urban L</mark> anduse – CBD ar	nd its ch	naracte	eristi	ics -				
		E THAT THE PER SE								
Unit		Theories and Models			hou					
		cal: Burgess, Homer Hoyt, Harris and Ullman - C	entral l	Place	The	ory:				
Chris	taller and Losch – Rank	Size Rule.								
<b>T</b> T •4	TT7	III B		1.4						
Unit		Urban Expansion	C1		hou					
	n Expansion: vertical ar n – Conurbation - City re	nd Horizontal – Urban Sprawl – Rural-Urban Fringe	– Subu	rbs –	Sate	mte				
TOWI	1 – Condition - City IC	gion – Omana.								
Unit	- V	Urban Problems		14	hou	ırs				
		verty – Crime – Pollution - Water Supply and Transpo	ort - Ur							
	ies – Town Planning.	The second of th				8:				
		Total lecture	hours		72					
	Books:									
1		ban Geography: A Text Book; Concept Publishing Co								
2	,	), Urbanization and Urban Systems in India, Oxford U	Iniversi	ty Pre	ss,					
2	Delhi.	I C I D (DIII (' II'								
3	. , , , , ,	Human Geography, Rawat Publications, Jaipur.	,· +	) ( T ·	1 3 7					
4	Delhi.	ities, Urbanisation and Urban Systems, Kisalaya publi	cation I	vt. Lt	a N	żW				
	DOM.									

Boo	ks For Reference:								
1	Nath V. (2007), Urbanisation, Urban Development and Metropolitan Cities in India, Concept								
	Publishing Co. New Delhi.								
2	Singh, R. L., (1994). Geography of Settlements, Rawat Publications, New Delhi. Hyderabad.								
3	Perpillou, (1967). Human Geography, A.V.H.G. Longman, London.								
4	Bala, Raj (1986), Urbanisation in India, Rawat Publishers, Jaipur.								
5	Vasant Kumar Bawa (1985), Indian Metropolis, Urbanization Planning and Management, Inter –								
	India Publication, New Delhi.								
Rela	nted Online Contents:								
1	https://en.wikipedia.org/wiki/Urban_geography								
2	http://lcgeography.preswex.ie/uploads/6/9/4/9/6949966/chapter_5_urban_land-use_theories.ppt								
Cou	rse Designed By: M. Panneer selvam								

Mapping	Mapping with Program Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10			
CO1	S	S	S	S	S	S	S	S	S	S			
CO2	S	S	M	S	S	S	S	M	S	S			
CO3	S	M	S	S	L	S	M	S	S	M			
CO4	M	S	S	M	80°S	Sc	S	S	M	S			
CO5	S	S	S	S	S	S	S	S	S	L			

Cour	se code	5EB	irse code 5EB NATURAL DISASTERS AND L MANAGEMENT											
Core/	Elective/	Supportive	Skill Based	3	0	0	3							
Pre-re	equisite		Basic knowledge of risk of disaster	Sylla vers										
	se Objecti													
			ral Disasters its Causes and Consequences gement and Mitigation.											
Cours	se Outcon	nes:												
After t	he compl	etion of course	e, the students will have ability to:											
CO1	Understa	and processes	and impact of disaster.			K	2							
CO2		and both the na	atural and man-made disaster and human negligence in	contex	ct	K	1							
CO3	Write a trisk.	field work bas	ed report on Disaster Management to minimize the disa	aster		K3	3							
CO4			ne disaster mitigation and management.			K3	3							
CO5	Know pr	roblems of hui	man induce disaster.			K	2							
<b>K1</b> - R	Remember	r; <b>K2</b> - Unders	tand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;											
Unit-			<b>Disasters: Meaning and Classification</b>			hou								
Disast	ers: Mean	ing and Class	ification – Concepts – Risk and Vulnerability – Disaste	r Zone	s of I	ndia.	·							
			13 th 100 to 100											
Unit-			Geo <mark>logi</mark> cal Disasters			hou								
		sters: Earthqualides and Tsu	nami.  Lakes: Intensity and Magnitude - Earthquake Prone	Zone	s - V	'olca	mic							
TT .*4	TTT				10	1								
Unit-		G 1	Climatic Disasters		10	hou	irs							
Clima	tic Disaste	ers: Cyclones	– Floods – Drought – Avalanche and Frost.											
TI:4	T 7		Combatore GGP		11	le o s								
Unit-		LD' / N	Human induced Disasters	C1 1		hou								
		nd Groundwat	uclear and Chemical — Health hazards - Forest fire - er Depletion.	Globa	ıı wa	rmır	ıg –							
Unit-	w l		Disaster Management		11	hou								
		amont: Disast		ol C4										
level -	- NGOs -	Disaster Cyc	er Management Organizations: International – Nation ele – Preparatory phase – Emergency phase - Rehabi gation and Management.				ocai							
			Total lecture	hours		54								
Text I	Books:													
1	1	G.K. (2008) D	isaster Management, A.P.H. Publishing Corporation, N	lew De	elhi.									
2			Natural Disasters, Wm. C. Brown Publishing Co., New											
	-1													

Books	For Reference:								
1	Nicholas, K. (1995), Geohazards, Natural and human, Prentice Hall of India, New Delhi.								
2	Agarwal, S.K. (2004), Global Warming and Climate Change, A.P.H. Publications, New Delhi.								
3	Narayan, B. (2009), Disaster Management. A.P.H. Publishing Corporation, New Delhi.								
4	Singh, R. B. (2008), Disaster Management, Rawat Publications. New Delhi.								
Relate	d Online Contents:								
1	https://en.wikipedia.org/wiki/Disaster_management_in_India								
2	https://en.wikipedia.org/wiki/Disaster								
Course	e Designed By: S. Ravichandiran								

Mapping with Program Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	S	S	S	S	S	S	S		
CO2	S	S	M	S	S	S	L	M	S	S		
CO3	S	M	S	S	M	S	M	S	S	M		
CO4	M	S	S	M	L	M	S	S	M	S		
CO5	S	S	S	S	S	S	S	S	S	S		



Course code	63A	GEOGRAPHY OF RESOURCES –II	L	T	P	С
Core/ Elective	/ Supportive	Core	6	0	0	4
Pre-requisite			Sylla versi			21- )22
Course Objec						
		ecourse, Types, Distribution and its Conservation inerals, Industrial Resources and Transport System.				
Course Outco						
		the students will have ability to:				
CO1 make the resource		the importance of conservation of minerals and energy			K2	
		ource development understand.			<b>K</b> 1	
		ance of mineral and power resource need for future plant	ning.		K3	
		industrial resource.			K3	
		and transportation importance.			K2	<u>'</u>
KI - Kemembe	er; <b>K2</b> - Understa	and; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;				
Unit- I		Fisheries		20	hou	rs
	ing: Types – Co	ntrolling factors of growth and distribution – Major fish	ing (	-		
	for Conservation		ms ·	Sioui	ia oi	tiic
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· ************************************				
Unit- II		Human Resources		22	hou	rs
		n - Modern <mark>Dem</mark> ographic Pattern — Trends of World Por — Optimum, Over and Under Population,	pulat	ion –	Den	sity
Unit- III		Mineral and Power Resources		22	hou	rs
		Types – Significances - Distribution and Production of lica – Coal, Petroleum, Natural Gas and Atomic power.	Iron	ore,	Baux	tite,
		St. St. St. Williams				
Unit- IV		Industrial Resources			hou	
		al factors - Distribution of Cotton Textile, Iron and Steedent and Chemical industries.	el – \$	Ship I	3uilo	ling ——
Unit- V		Transportation and Trade		22	hou	rs
	and Trade: Tvr	bes of Transportation – Land, Water and Air – Land:	Roa			
Water: Inland	and Ocean - Ai	ir: Domestic and International - Trade: Types - Compositance of Trade, Recent Trends and Trade Organizations.	ositio			
		Total lecture hou	urs		108	-
Text Books:						
1 Alk	a Gautham (201 arda Pustak Bhav	3), Geography of resources: Exploration, Conservation a an, New Delhi.	and N	Manag	geme	nt,

Books F	or Reference:
1	Goh Cheng Leong (1987), Human & Economic Geography, Oxford University Press, New
	York.
2	Alexander J.W., (2006), Economic Geography – Prentice Hall of India Pvt. Ltd. New Delhi.
3	Khanna K.K. and Gupta, V.K., (2004), Economic and Commercial Geography, Sultan Chand
	and sons, NewDelhi.
4	K. Siddhartha (2004), Economic Geography, Kisalaya Publications Pvt. Ltd.
5	Thomas R.S,(1968), Geography of Economic Activity, McGraw Hill Book Company, New
	Delhi.
Related	Online Contents:
1	https://www.oxfordbibliographies.com/view/document/obo-9780199874002/obo-
	9780199874002-0091.xml
2	https://gurukpo.com/Content/BA/Geo_of_Resorce.pdf
	<del>-</del>
Course	Designed By: S. Ravichandiran
	<u> </u>

Mapping	Mapping with Program Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	S	S	S	S	S	S	M		
CO2	S	S	M	S	S	S	S	M	S	S		
CO3	S	M	S	S	L	S	M	S	S	L		
CO4	M	S	S	M	S	M	ES	S	M	S		
CO5	S	S	S	S	S	S	S S	S	S	S		

S- Strong: M- Medium: L- Low

Course code	63B	ENVIRONMENTAL STUDIES AND MANAGEMENT										
Core/ Elective/	Supportive	Core	6	0	0	3						
Pre-requisite		Basic knowledge in Environmental problem	Sylla			)21- )22						
Course Objecti	ives:		II.		ı							
problems and w	hich has the l	on that is aware of and concerned about the environment owledge, Skills, attitudes, motivations and commit owards solutions of current problems and prevention.				ated						
Course Outcom	nes:											
After the compl	etion of course	e, the students will have ability to:										
CO1 Understa	and the dynam	ic interactive relationship between man and environm	ent.		K	2						
CO2 Have so		ding on distribution, utilization and management of na			K	1						
CO3 Assess of	of different asp	pects of flora and fauna provinces.			K.	3						
		ics of climate and related theories.			K.							
		tion as an index of climate.			K2	2						
K1 - Remember	r; <b>K2</b> - Unders	stand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;										
Unit- I		Environment		22	hou	ırs						
Environment: N	Meaning and S	Scope – Comp <mark>onents – Fundame</mark> ntal Concepts – Rel	ationsh	ip Ge	ogra	phy						
and Environmen	nt - Environme	ental Geograp <mark>hy.</mark>										
				1								
Unit- II		Ecosystem		_	hou							
Ecosystem: Mea	aning – Types	- Components - Functioning of Ecosystems - Food c	hain an	d Foo	d we	b.						
Unit- III		Natural Hazards		22	hou							
	s: Meaning an	d Types - Environmental Degradation - Human Impa	et on F									
		- Land Slides - Desertification – Global Warming and										
		EDUCATE TO BLEVATE			6							
Unit- IV		Man includes Hazards		22	hou	irs						
		ntion: Meaning and types - Land, Water and Air - stes - Medical and Electronic wastes.	Waste	Mana	gem	ent:						
Unit- V		Environmental Impact Assessment		22	hou	ırs						
	Impact Assess	sment: Meaning and Concept – Case studies of Sarda	r Sarova									
		mental movements in Protecting our Environment.			<i></i>							
		Total lecture	hours		108							
1				•								
Text Books:	D (1071) E	1 (1 (E 1 WES 1 C BUILTI										
		ndamental of Ecology, W.B.Sunders Co, Philadelphia.										
		eography - A. Modern Synthesis, Prentice Hall, Londo										
3 Savindra	Singh (1991),	Environmental Geography, Kalyan Publications, New	Delhi.									
						_						

Book	ss For Reference:									
1	Paul R. Ehrlich, Anne H. Ehrlich, and John P. Holdren (1977), Ecoscience: Population, Resources,									
	Environment, Edition3, W. H. Freeman Publishers.									
2	Batel, B. (1980) Management of Environment, Wiby Eastern Ltd., New Delhi									
3	Centre for Science & Environment: The State of India Environment, A Citizen's									
	Report1982,1985, New Delhi.									
Relat	ted Online Contents:									
1	https://ncert.nic.in/ncerts/l/jesc116.pdf									
2	https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf									
Cour	rse Designed By: M. Panneer selvam									

Mapping	Mapping with Program Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	S	S	S	S	S	S	S		
CO2	S	S	M	S	S	S	S	M	S	S		
CO3	S	M	S	S	L	S	M	S	S	M		
CO4	M	S	S	M	S	M	S	S	M	S		
CO5	S	S	S	S	S	S	S	L	S	S		

Course	code	63P	SURVEYING AND INTERPRETATION OF AERIAL PHOTOS AND SATELLITE IMAGES – PRACTICAL	L	T	P	С
Core/ E	ective/	Supportive	Core	0	0	5	4
Pre-req	uisite		Basic Knowledge of simple calculation techniques	Sylla vers			21- 22
Course	Objecti	ives:					
To unde	rstand a	bout basics and	uses of land and height measurement survey.				
			s to interpret and extract useful information from map	s, topo	shtees	, aer	ial
photogra	phs and	d satellite image	es.				
Course							
			the students will have ability to:				
COI	ealities.	,	ork for the collection of primary data to bring out gras			K	2
		se of proper tool on and processir	s and surveying methods for measurement in context ag of data.	of		K	1
CO3 F	repare	a report based o	on field data.			K	3
	Jndersta eature p	-	notograph interpretation and ground features detection	n for		К3	
			e imagery and marginal information.			K	2
			and; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;				
		•					
Unit- I			Survey		15	hou	rs
Survey:	Chain:	Open and Close	ed - Prism <mark>atic compass: Open and cl</mark> osed - Plane Tabl	e Surve	ying.		
Unit- II			Height Measurement and Levelling			hou	
_			velling: Indian Clinometer, Abney level and Dur	npy le	vel –	Le	vel
Differen	ces and	Height Measur	rement.				
	_ 1		EDUCATE TO EFENTE				
Unit- II			Aerial Photos		L	hou	
			sual Interpretation - Marginal information – stereo	scopic	Visio	n Te	st-
Interpret	ation of	f Aerial Photog	raphs (Physical and Cultural) .				
TI TX	, I		C-4-11:4- T		10	1	
Unit- IV		Monain al inc	Satellite Images	and C		hou	rs
Satemite	ımages	s. iviarginai into	rmation - Interpretation of Satellite Images (Physical	ana Cu	nurai)	١.	
Unit- V			Field		12	hou	
		imum 3 days Te			10	nou	· D
11010 111	. 141111	man Jays 10					
			Total lecture	hours		90	
Text Bo	oks:		Tom letter				
		ise, F.J. and Wi	lkinson, H.R., (1989), Maps and Diagrams, B.I.Public	cations	New	Delh	ii.
		,	, , , , , , , , , , , , , , , , , , , ,	- ~,			

Book	ss For Reference:
1	Misra, R.P. and Ramesh, A., (2002). Fundamentals of Cartography, Concept Publication
	Company, New Delhi.
2	Pijushkanti Saha and Partha Basu, (2010), Advanced Practical Geography, Books and Allied (P)
	Ltd, Kolkata.
3	Lillesand, T.M. and Kiefer, R.W., (1979), Remote Sensing and Image Interpretation, John Wiley
	and sons, New York.
4	Sabins, Jr. (1978), Remote Sensing: Principles and Interpretation, Freeman and Co, San Francisco.
Relat	ted Online Content:
1	https://pubs.usgs.gov/gip/AerialPhotos_SatImages/aerial.html
2	https://theconstructor.org/surveying/types-of-chains-surveying/13889/
Cour	se Designed By: Dr. J. Ganesan

Mapping	Mapping with Program Outcomes									
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	L	S	S
CO2	S	S	M	S	S	S	S	M	S	S
CO3	S	M	S	S	S	S	M	S	S	S
CO4	M	S	S	M	S	M	S	S	M	S
CO5	S	S	S	S	80 L	S	S	M	S	M

Cou	rse code 6EA	POLITICAL GEOGRAPHY	L	T	P	C			
Core	Elective/Supportive	Elective	5	0	0	4			
Pre-r	equisite	Basic knowledge in India political system	Sylla versi			21- )22			
	se Objectives:								
		nd development Political Geography.							
To lea	arn about state, Capitals,	Elections and India's Foreign Policy.							
Cour	se Outcomes:								
After	the completion of cours	e, the students will have ability to:							
CO1									
CO2		ent dimensions of electoral geography and resource confl			<b>K</b> 1	L			
CO3	relationship with SAA		al		K3	}			
CO4	Importance of politica	•			K3				
CO5	Political rule differ fro				K2	<u>!</u>			
K1 - ]	Remember; <b>K2</b> - Unders	stand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;							
Unit	т	Dalitical Coognaphy		10	hou	<b></b>			
		Political Geography on, Scope, Content and Development – Geopolitics - S	State						
	rs and Functions - Natio		State.	Cate	gori	- 8c			
		OFF.ID							
Unit-	· II	Core Areas		18	hou	rs			
Core	Areas: Types – Capitals	s: Types - Mor <mark>phol</mark> ogical classification - Factors of Dev	elopn	nent,	Fede	eral			
Capit	als – New and Neutral C	Capitals – Cap <mark>ital</mark> s in Post -194 <mark>5 federat</mark> ions.							
TT . *4	TTT			10	1				
Unit-		Boundaries and Frontiers	M		hou				
		Definition – Classification: Genetic and Functional Land locked Countries) – Border Disputes.	- 1010	orpno	iogi	Jai			
Class	meuron (Durier Zone	Company							
Unit-	IV	Electoral Geography		18	hou	rs			
		aphy of Elections – Election Campaigning - Voting ing – Election Commission.	Patter	n - \	Vote	rs'			
Unit-	· V	Political Geography of India		18	hou	rs			
	O 1 0	: Integration of Indian States: Integration of Sikkim - d Sri Lanka – SAARC Countries - India's Foreign Polic		a's E	Bilate	eral			
		Total lecture h	Allre		90				
		Total reture i	Juis		70				
Text	Books:								
1	Dikshit, R.D. (1982). P	Political Geography: A contemporary perspective, McGra	aw Hil	ll Pub	lishi	ng			
2	Sudeeptha Adhikari, (2	004), Political Geography, Rawat publications, New De	lhi.						
3	Muir, R., (1981). Mode	ern Political Geography, Macmillan, London.							

Book	s For Reference:							
1	Presscott, J.R.V., (1972), Political Geography, Methuen, London.							
2	De Blij Harm, J., (1980), Systematic Political Geography, John Wiley and sons, New York.							
3	Taylor and Peter (1972), Political Geography, Methuen, London.							
4	Cohen Sayl, B., (1973), Geography and Politics in a divided world, OUP, New York.							
5	Adhikari, Sudeepta (2008), Political Geography of India, Sharda Pustak Bhawan, Allahabad.							
Relat	ted Online Content:							
1	https://en.wikipedia.org/wiki/Political_geography							
2	https://simple.wikipedia.org/wiki/Political_geography							
Cour	se Designed By: B. Sasikumar							

Mapping	Mapping with Program Outcomes									
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	S	S	S
CO2	S	S	M	S	S	S	S	M	L	S
CO3	S	M	S	S	M	S	M	S	S	M
CO4	M	S	S	M	S	M	S	S	M	S
CO5	S	S	S	S	L	S	S	S	S	S

Cours	e code	6ED	REGIONAL GEOGRAPHY OF SOUTH EAST ASIA	L	T	P	С
Core/1	Elective/	Supportive	Elective	5	0	0	4
Pre-rec		Биррогиче	Basic knowledge in Atlas reading	Sylla vers	bus	20	)21- )22
Course	<b>Object</b>	ives:					
			nt and Physiography divisions in Mainland of south eastls, Agriculture and Natural Vegetations of south east A				
	Outcor						
			e, the students will have ability to:		1	***	
			onmental differences between the equatorial belts.			K2	
			utheast Asia geographical conditions.			K1	
			r-latitude zone of mainland Southeast Asia.			K3	
CO4			ences influence human settlement and economic develo			K3	5
	regions	of Southeast A		ent		K	2
<b>K1</b> - R	emembe	r; <b>K2</b> - Unders	tand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;				
Unit-	Ι		South East Asia		18	hou	ırs
South I	East Asi	a: Location a	and Extent – Physiographic Divisions - Climate –	Soils	and 1	Natu	ral
Vegeta			-8 00 60 65 1 Dario				
Unit- l	I		Agriculture		18	hou	rs
		ood crops: Ri s: Tea, Coffee	ce and Wheat – Commercial crops: Cotton, Jute a and Rubber.	and	Suga	rcan	e – —
Unit- l	TT		Myanmar		18	hou	ırs
		siography – (	Climate – Drainage - Soils – Vegetation – Agricul	ture –	_		
			sport and Trade.				
		, , , , , ,	EDUCATE TO ELEVATE				
Unit- I	$\mathbf{V}$		Malaysia and Singapore		18	hou	irs
		ingapore: Phys	siography – Climate – Drainage - Soils – Vegetation –	Agricu			
•			ation, Transport and Trade.				
Unit-			Indonesia			hou	
			Climate – Drainage - Soils – Vegetation – Agricul sport and Trade.	lture –	Min	erals	
			Total lecture	hours		90	
Text B							
1	Rog	er Minshull –F	Regional –Theory and Practice. Routledge				
	For Ref						
1			Asia's lands and People. McGraw-Hill Book company	y			
2			in Regional Geography.				
3			ohn E Bush and others - The pattern of Asia.				
4			1980), Systematic Political Geography, John Wiley and	d sons,	New	Yor	k.
5	Dud	dly Stamp .L.	A New Geography of India Burma & Ceylon				

Related	Related Online Content:							
1	https://worldgeo.pressbooks.com/chapter/east-and-southeast-asia/							
2	2 https://saylordotorg.github.io/text_world-regional-geography-people-places-and-globalization/s14-southeast-asia.html							
Course	Designed By: Dr. J. Ganesan							

Mapping	with Pro	ogram Ou	tcomes							
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	L	S	S	S	S	S
CO2	S	S	M	S	S	S	S	M	S	S
CO3	S	M	S	S	M	S	M	S	S	L
CO4	M	S	S	M	S	M	S	S	M	S
CO5	S	S	L	S	S	S	S	M	S	S

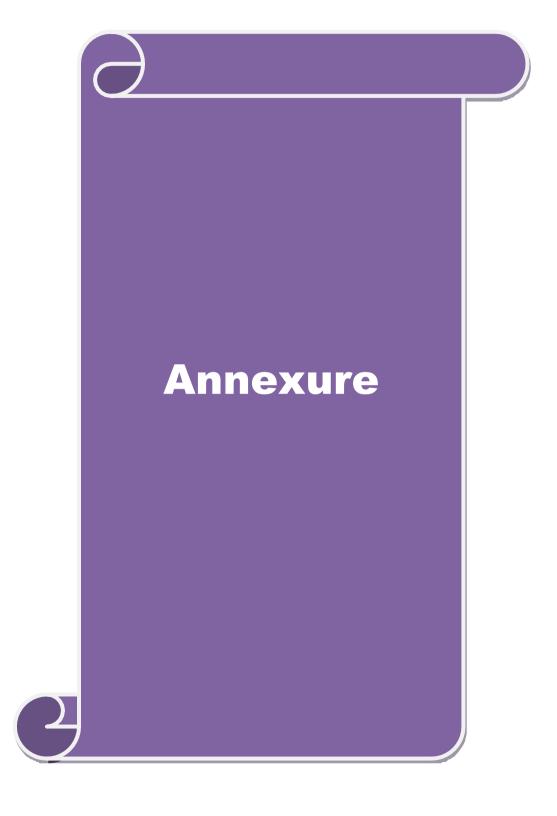


Cour	Course code 6ZD GEOGRAPHY OF TOURISIM L T P C									
Core/	Elective	/ Supportive	Skilled Based	3	0	0	3			
Pre-re	equisite		Basic knowledge in Educational tour	Syllat versi		202 20	21- 22			
	se Object									
			in and Development of Tourism Sector and its Types.							
To lea	rn about	Tourism Mana	gement, Organizations and Government Policy.							
~										
	se Outcor		4 . 1 . 211 122 .							
After			e, the students will have ability to:		1					
CO1 Equip with a basic understanding of nature and scope, trends and patterns of various types of tourisms.										
CO2		ound knowledg in Tamilnadu.	e on geographical, environmental and socio-cultural a	spects of	f	K1				
CO3		he principle of grimage touris	Geo-tourism and analyze the prospect and problems a m.	ssociate	d	К3				
CO4	_		ntre form the world.			K3				
CO5	Underst	and the tourisr	n visa and transport plan.			K2	,			
<b>K1</b> - F	Remembe	r; <b>K2</b> - Unders	tand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;							
			- 100 m							
Unit-			Tourism: Definition			hou	rs			
Touris	sm: Defin	ition – Types -	<ul> <li>History and Development – Economic importance of</li> </ul>	f Tourisi	n.					
			<b>1</b>							
Unit-			Tou <mark>rism Potentials in India</mark>		10	hou	rs			
	sm Potent ts and Ga		ourist Attractions – Religious – Recreations – Festiva	ls						
			Coimbatore Co							
Unit-			Tourism Management			hou				
		gement: Accon sport - Tourist	nmodation - Transport facility - Travel Agencies - Pub Guides.	olicity ar	ıd Ma	ırket	ing			
Unit-			Tourism Organizations			hou				
		nizations: Inter and Functions.	national - WTO and PATA - Tourism Organizations	in India	a: ITI	OC a	ınd			
Unit-	V		Tourism in Tamil Nadu		11	hou	rs			
	sm in Tar nment Po		tential Areas – Major Tourist Centre – Planning	and Ma	nager	nent	_			
m			Total lecture	hours		54				
	Books:	. I. (0010)				Т.				
1	Bhatia, A Ltd., Nev		Fourism Development – Principles and Practices, Sterl	ing Publ	lisher	s Pv	i.			

Book	ss For Reference:
1	Douglas Pearce (1949), Tourism today – A Geographical analysis, Longman Publications,
	New York.
2	Khullar, N., (1985), Dynamics of Tourism, Sterling Publishers Pvt. Ltd., New Delhi.
3	Praveen Sethi (1999), Tourism in Developing Countries, Rajat Publications, New Delhi.
4	Bhattacharya, P. (2006), Trend in Tourism Potentiality, Bani Mandir, Guwahati.
Relat	ted Online Content:
1	http://studymaterial.unipune.ac.in:8080/jspui/bitstream/123456789/5997/1/1.%20Tourism%20Ge
	ography%20Chapter%201.pdf
2	https://en.wikipedia.org/wiki/Tourism_geography
Cour	rse Designed By: Dr. J. Ganesan

Mappin	g with P	rogram O	utcomes							
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	S	S	S
CO2	S	M	M	S	S	S	M	M	S	S
CO3	S	M	S	S	L	S	M	S	S	M
CO4	M	S	S	M	S	M	S	S	M	S
CO5	S	S	S	S	S	S	S	S	S	S





# BHARATHIAR UNIVERSITY COIMBATORE – 641 046 REGULATIONS FOR UNDERGRADUATE B. Sc. GEOGRAPHY DEGREE COURSE – Semester System (with effect from 2022-2023)

### 1. Eligibility for Admission to the Course

Candidate for admission to the first year of the **B. Sc Geography** degree course shall be required to have passed the higher secondary examination (Academic or Vocational) conducted by the Govt. of Tamil Nadu in the relevant subjects or other examination accepter as equivalent there to by the Syndicate, subject to such other conditions as may be prescribed therefore.

### 2. Duration of the Course

The course shall extend over a period of three years comprising of six semesters with two semesters in one academic year. There shall not be less than 90 working days for each semester. Examination shall be conducted at the end of every semester for the respective subjects.

# **Course of Study**

The course of study for the UG degree course shall consist of the following

# a) Part -I

Tamil or any one of the following modern/classical languages i.e. Telugu, Kannada, Malayalam, Hindi, Sanskrit, French, German, Arabic & Urdu. It shall be offered during the first four semesters with one examination at the end of each semester.

### b) Part – II :English

The subject shall be offered during the first four semesters with one examination at the end of each semester. During third semester Part II English will be offered as communication skills.

### c) Foundation Course

The Foundation course shall comprise of two stages as follows: Foundation Course A: General Awareness (I & II semesters) Foundation Course B: Environmental Studies (III & IV semesters)

The syllabus and scheme of examination for the foundation course A, General awareness shall be apportioned as follows.

From the printed material supplied by the University 75% Current affairs & who is who? -25%. The current affairs cover current developments in all aspects of general knowledge which are not covered in the printed material on this subject issued by the University. The Foundation course B shall comprise of only one paper which shall have Environmental Studies.

### d) Part -III

**Group A:** Core subject – As prescribed in the scheme of examination. Examination will be conducted in the core subjects at the end of everysemester

# **Group B:** allied subjects -2 subjects-4 papers

Examination shall be conducted in the allied subjects at the end of first four semesters.

# **Group C:** application oriented subjects: 2 subjects – 4 papers

The application –oriented subjects shall be offered during the last two semesters of study viz., V and VI semesters. Examination shall be conducted in the subjects at the end of V & VI semesters.

# **Group D:** field work/institutional training

Every student shall be required to undergo field work/institutional training, related to the application-oriented subject for a period of not less than 2 weeks, conveniently arranged during the course of 3<sup>rd</sup> year. The principal of the college and the head of the department shall issue a certificate to the effect that the student had satisfactorily undergone the field work/institutional training for the prescribed period.

### e) Co-Curricular activities: NSS/NCC/Physical education

Every student shall participate compulsorily for period of not less than two years (4 semesters) in any one of the above programmes.

The above activities shall be conducted outside the regular working hours of the college. The principal shall furnish a certificate regarding the student's performance in the respective field and shall grade the student in the five point scale as follows

A-Exemplary B-very good C- Good D- Fair E-Satisfactory

This grading shall be incorporated in the mark sheet to be issued at the end of the appropriate semester (4<sup>th</sup> or 5<sup>th</sup> or 6<sup>th</sup> semester).

(Handicapped students who are unable to participate in any of the above activities shall be required to take a test in the theoretical aspects of any one of the above 3 field and be graded and certified accordingly).

(Handicapped students who are unable to participate in any of the above activities shall be required to take a test in the theoretical aspects of any one of the above 3 field and be graded and certified accordingly).

# 3. Requirement to appear for the examinations

- a. a candidate will be permitted to appear for the university examinations for any semester if
- i) He/she secures not less than 75% of attendance in the number of working days during the semester.
- ii) He/she earns a progress certificate from the head of the institution, of having satisfactory completed the course of study prescribed in the subjects as required by these regulations, and

iii) His/her conduct has been satisfactory.

Provided that, it shall be open to the syndicate, or any authority delegated with such powers by the syndicate, to grant exemption to a candidate who has failed to earn 75% of the attendance prescribed, for valid reasons, subject to usual conditions.

- **b.** A candidate who has secured less than 65% but 55% and above attendance in any semester has to compensate the shortage in attendance in the subsequent semester besides, earning the required percentage of attendance in that semester and appear for both semester papers together at the end of the latter semester.
- **c.** A candidate who has secured less than 55% of attendance in any semester will not be permitted to appear for the regular examinations and to continue the study in the subsequent semester. He/she has to rejoin the semester in which the attendance is less than 55%
- **d.** A candidate who has secured less than 65% of attendance in the final semester has to compensate his/her attendance shortage in a manner as decided by the concerned head of the department after rejoining the same course.

### 4. Restrictions to appear for the examinations

- a. Any candidate having arrear paper(s) shall have the option to appear in any arrear paper along with the regular semesterpapers.
- b. "Candidates who fail in any of the papers in Part I, II & III of UG degree examinations shall complete the paper concerned within 5 years form the date of admission to the said course, and should they fail to do so, they shall take the examination in the texts/ revised syllabus prescribed for the immediate next batch of candidates. If there is no change in the texts/syllabus they shall appear for the examination in that paper with the syllabus in vogue until there is a change in the texts or syllabus. In the event of removal of that paper consequent to change of regulation and / or curriculum after 5 year period, the candidates shall have to take up an equivalent paper in the revised syllabus as suggested by the chairman and fulfill the requirements as per regulation/ curriculum for the award of the degree.

### 5. Medium of Instruction and examinations

The medium of instruction and examinations for the papers of Part I and II shall be the language concerned. For part III subjects other than modern languages, the medium of instruction shall be either Tamil or English and the medium of examinations is in English/Tamil irrespective of the medium of instructions. For modern languages, the medium of instruction and examination will be in the languages concerned.

# 6. Submission of Record Note Books for practical examinations

Candidates appearing for practical examinations should submit bonafide Record Note Books prescribed for practical examinations, otherwise the candidates will not be permitted to appear for the practical examinations. However, in genuine cases where the students, who could not submit the record note books, they may be permitted to appear for the practical examinations, provided the concerned Head of the department from the institution of the candidate certified that the candidate has performed the experiments prescribed for the course. For such candidates who do not submit Record Books, zero (0) marks will be awarded for record note books.

# 7. Passing Minimum

- **a.** A candidate who secures not less than 40% of the total marks in any subject including the Diploma and Foundation courses (theory or Practical) in the University examination shall be declared to have passed the examination in the subject (theory or Practical).
- **b.** A candidate who passes the examination in all the subjects of Part I, II and III (including the Diploma and Foundation courses) shall be declared to have passed, the whole examination.

# 8. Improvement of Marks in the subjects already passed

Candidates desirous of improving the marks awarded in a passed subject in their first attempt shall reappear once within a period of subsequent two semesters. The improved marks shall be considered for classification but not for ranking. When there is no improvement, there shall not be any change in the original marks already awarded.

### 9. Classification of Successful candidates

- **a.** A candidate who passes all the Part III examinations in the First attempt within a period of three years securing 75% and above in the aggregate of Part III marks shall be declared to have passed B.A/B.Sc./B.Com./B.B.M. degree examination in **First Class with Distinctions**
- **b. i** A candidate who passes all the examinations in Part I or Part III or Part III or Diploma securing not less than 60 per cent of total marks for concerned part shall be declared to have passed that part in **First Class** 
  - ii. A candidate who passed all the examinations in Part I or Part II or Part III or Diploma securing not less than 50 per cent but below 60 per cent of total marks for concerned part shall be declared to have passed that part in **Second Class**
  - iii. All other successful candidates shall be declared to have passed the Part I or Part II or Part III or Diploma examination in **Third Class**

# 10. Conferment of the Degree

No candidate shall be eligible for conferment of the Degree unless he / she, Has undergone the prescribed course of study for a period of not less than six semesters in an institution approved by/affiliated to the University or has been exempted from in the manner prescribed and has passed the examinations as have been prescribed there for.

- i. Has satisfactory participates in either NSS or NCC or Physical Education as evidenced by a certificate issued by the Principal of theinstitution.
- ii. Has successfully completed the prescribed Field Work/ Institutional Training as evidenced by certificate issued by the Principal of the College.

### 11. Ranking

A candidate who qualifies for the UG degree course passing all the examinations in the first attempt, within the minimum period prescribed for the course of study from the date of admission to the course and secures I or II class shall be eligible for ranking and such ranking will be confined to 10 % of the total number of candidates qualified in that particular branch of study, subject to a maximum of 10ranks. The improved marks will not be taken into consideration for ranking.

### 12. Additional Degree

Any candidate who wishes to obtain an additional UG degree not involving any practical shall be permitted to do so and such candidate shall join a college in the III year of the course and he/she will be permitted to appear for par III alone by granting exemption form appearing Part I, Part II and common allied subjects (if any), already passed by the candidate. And a candidate desirous to obtain an additional UG degree involving practical shall be [permitted to do so and such candidate shall join a college in the II year of the course and he/she be permitted to appear for Part III alone by granting exemption form appearing for Part I, Part II and the common allied subjects. If any, already passed. Such candidates should obtain exemption from the university by paying a fee of Rs.500/-.

# 13. Evening College

The above regulations shall be applicable for candidates undergoing the respective courses in Evening Collegesalso.

### 14. Syllabus

The syllabus for various subjects shall be clearly demarcated into five viable units in each paper/subject.

# 15. Revision of Regulations and Curriculum

The above Regulation and Scheme of Examinations will be in vogue without any change for a minimum period of three years from the date of approval of the Regulations. The University may revise /amend/ change the Regulations and Scheme of Examinations, if found necessary.

### 16. Transitory Provision

Candidates who have undergone the Course of Study prior to the Academic Year 2020-2021 will be permitted to take the Examinations under those Regulations for a period of four years i.e. up to and inclusive of the Examination of November 2021 thereafter they will be permitted to take the Examination only under the Regulations in force at that time.

List of E	List of Elective papers (Colleges can choose any one of the paper as Electives)							
Elective – I	A	Urban Geography						
	В	Natural disasters and Management						
	C	Bio-Geography						
Elective – II	A	Political Geography						
	В	Geography of USA						
	C	Regional Geography of Middle East						
Elective – III	A	Regional Geography of Southeast Asia						
	В	Geography of Japan						
	C	Medical Geography						

SCHEME OF VALUATION		
CORE PAPERS	ELECTIVE PAPERS	
CREDITS – 4; MARKS - 100	CREDITS – 4; MARKS - 100	
Marks Distribution:	Marks Distribution:	
Internal–25Marks	Internal – 25 Marks	
External – 75 Marks	External – 75 Marks	

SCHEME OF VALUATION		
SKILL BASED SUBJECT	NON MAJOR ELECTIVE	
CREDITS – 3; MARKS - 75	CREDITS – 2; MARKS - 50	
Marks Distribution:	Marks Distribution:	
Internal–20 Marks	Internal – NIL	
External – 55 Marks	External – 50 Marks	

SCHEME OF VALUATION	
CORE PRACTICAL SUBJECT	
CREDITS – 4; MARKS - 100	
Marks Distribution:	
Internal–40 Marks	
External – 60 Marks	