B. Sc. Geography

Syllabus

AFFILIATED COLLEGES

Program Code: 22Q

2021 - 2022 onwards



BHARATHIAR UNIVERSITY

(A State University, Accredited with "A" Grade by NAAC, Ranked 13th among Indian Universities by MHRD-NIRF, World Ranking: Times -801-1000, Shanghai -901-1000, URAP - 982)

Coimbatore - 641 046, Tamil Nadu, India

Progran	Program Educational Objective (PEOs)								
	The main qualification descriptors for the B.Sc., geography students are to develop the critical evaluation 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 realworld.								
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	On successful 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 (University Affiliated colleges)

(For the students admitted during the academic year 2021 – 2022 onwards)

Scheme of Examination

Course	T:410 of 410 - C	Credits Hours					Marks					
Code	Title of the Course	Credits	Theory	Practical	CIA	ESE	Total					
	FIRST SEMESTER											
1IT	Language – I	4	6	_	50	50	100					
12E	English – I	4	6	-	50	50	100					
13A	Core I – Fundamentals of Geomorphology - I	4	5	-	50	50	100					
13B	Core II – Geography of India	4	5		50	50	100					
1AC	Allied: Paper I – Statistics for Geography -I	4	6	E	50	50	100					
1FA	Environmental Studies #	2	2	1 5	-	50	50					
	Total	22	30	ME	250	300	550					
	SECO	ND SEME	ESTER									
21T	Languag <mark>e – II</mark>	4	6	- 100	50	50	100					
22E	English – II	4	6	1 24	50	50	100					
23A	Core III – Fundamentals of Geomorphology - II	4	5	7 3.0	50	50	100					
23P	Core IV – - Practical - Basics of Map Making	4	5/	5	50	50	100					
2AC	Allied: Paper II - Statistics for Geography -II	4	6		50	50	100					
2FB	Value Education – Human Rights #	2	2	-	- /	50	50					
	Swatch Bharat Summer Internship*	Coimbator	_	60	-	-	-					
	Total	22	25	5	250	300	550					
		RD SEMES	A STATE OF THE PARTY OF THE PAR									
31T	Language - III FDUCA	75 TA ELE	6.11		50	50	100					
32E	English - III	4	6	-	50	50	100					
33A	Core V - Climatology	4	4	_	50	50	100					
33B	Core VI – Population & Settlement	4	4	-	50	50	100					
3AC	Allied: III – Elements of Cartography	4	5	_	50	50	100					
3ZA	Skill Based Subject – Basics in Computers (Minimum 2 hrs compulsory lab for a week)	3	3	-	30	45	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	30		280	345	625					

FOURTH SEMESTER										
`41T	Language - IV	4	6	-	50	50	100			
42E	English - IV	4	6	_	50	50	100			
43A	Core VII – Oceanography	4	4	_	50	50	100			
43P	Core VIII – Practical – Map									
-	Interpretation and	4	_	4	50	50	100			
	Representation of Climatic Data					30	100			
43Q	Allied: IV – Practical -	4		_	50	50	100			
	Cartography	4	-	5	50	50	100			
4ZB	Skill Based Subject – Basics of									
	GIS & GPS (Minimum 2 hrs	3	3	_	30	45	75			
	compulsory lab for a week)									
4FB /	Tamil @ / Advanced Tamil #									
4FE	(OR) Non – Major Elective – II	2	2	-	-	50	50			
	(General Awareness #) Total	25	21	9	280	345	625			
		TH SEMES		7	200	343	023			
			TEK							
53A	Core IX – Geography of Natural Regions of the World	4	6	5	50	50	100			
	Core X – Geography of Tamil		1	10	1		 			
53B	Nadu	3	6	-	30	45	75			
	Core XI – Geography of		100	10						
53C	Resources - I	4	6	- 1	50	50	100			
52D	Core XII – Remote Sensing and		_	191	50	50	100			
53D	its Applications in Geography	4	5	1 (9)	50	50	100			
5EA	Elective – I, Urban Geography	4	4	-/ =	50	50	100			
	Skill Based- Subject - Disaster	3	0	1	20	4.5	7.5			
5EB	Studies	5 2	3		30	45	75			
	Total	22	30		260	290	550			
		TH SEME	STER		0					
63A	Core XIII – Geography of	4	6		50	50	100			
03/1	Resources - II		O	2.5	30	50	100			
63B	Core XIV – Environmental	3	6	- 0016	30	45	75			
	Studies and Management	Colimbator		60.	, ,					
	Core XV – Practical - Surveying									
(2D	& Interpretation	4	உயர்த்	-	50	50	100			
63P	of Aerial Photos and Satellite	4 11601		5	50	50	100			
	Images (Minimum 2 hrs	TE TO ELI	VALLE							
	compulsory lab for a week)									
(EA	Elective –II, Political Geography	4	5		50	50	100			
6EA	, , , , ,	4	5	-	50	50	100			
6ED	Elective – III, Regional	4	5	_	50	50	100			
	Geography of South East Asia Skill Based Subject –									
6ZD	Geography of Tourism	3	3	-	30	45	75			
67A	Extension Activities @	2		_		50	50			
U/11	Other Item Swatch Bharat				1	20	20			
	Internship Scheme - II	2	-	-	-	-	-			
	Total	24	25	5	260	340	600			
	Grand total	140	161	19	1580	1920	3500			
		1	1				1			

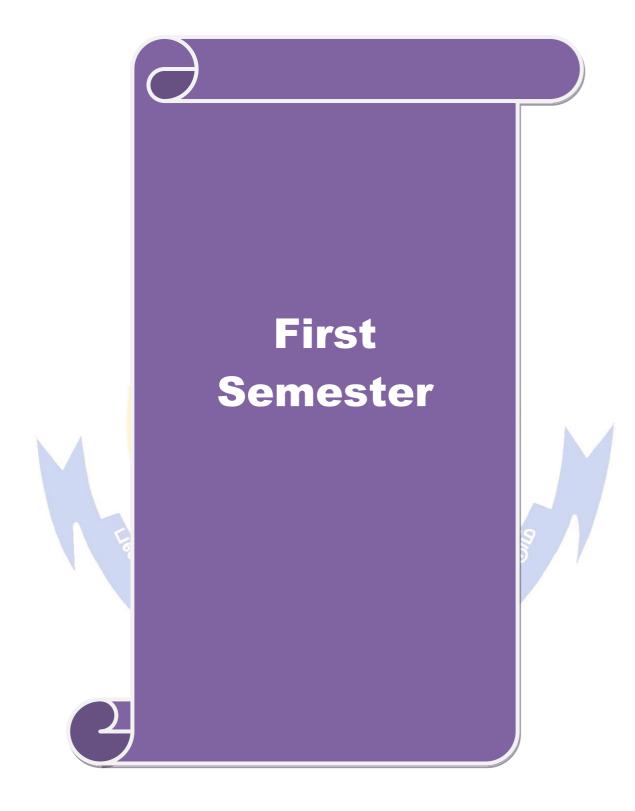
[@] No University Examinations. Only Continuous Internal Assessment (CIA) # No Continuous Internal Assessment (CIA), Only University Examinations.

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

SCHEME OF VALUATION								
CORE PAPERS	ELECTIVE PAPERS							
CREDITS – 4; MA <mark>RKS - 1</mark> 00	CREDITS – 4; MARKS - 100							
Marks Distribution:	Marks Distribution:							
Internal–50 M <mark>arks</mark>	Internal – 50 Marks							
External – 50 Marks	External – 50 Marks							

SCHEME OF VALUATION								
SKILL BASED SUBJECT NON MAJOR ELECTIVE								
CREDITS – 3; MARKS - 75	CREDITS – 2; MARKS - 50							
Marks Distribution:	Marks Distribution:							
Internal–30 Marks	Internal – NIL							
External – 45 Marks	External – 50 Marks							

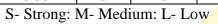
SCHEME OF VALUATION	
CORE PRACTICAL SUBJECT	
CREDITS – 4; MARKS - 100	
Marks Distribution:	
Internal–50 Marks	
External – 50 Marks	



Course code	13A	FUNDAMENTALS OF GEOMORPHOLOGY – I	L	T	P	С
Core/ Elective	/ Supportive	Core	5	0	0	4
Pre-requisite		Basic knowledge of fundamentals of landforms	Syllal versi)21-)22
Course Object	tives:				1	
To understand	about Landfori	ms its origin and evolution.				
To learn about	the Geomorph	ic features in details.				
Course Outcon	moge					
		e, the students will have ability to:				
Underet		oning of Earth systems in real time and analyze how	the natur	al le		
(()		erating factor affects the development of landforms.	ine natur	aı	K2	2
		he mechanisms that control these processes			K	ĺ
(())		structure, stage and time in shaping the landforms	-	et	K3	3
		<mark>ps and apply the knowledge in geographical</mark> research. ogical maps and apply the knowledge in geographical			K3	2
		scales of time and space affect geomorphologic proce		•	K2	
		stand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	3303.		13.2	
THE REMEMBE	i, iii ender	indistribution, in the state of				
Unit- I		Geomorphology		18	hou	rs
	y – m <mark>eaning, s</mark>	scope and content - Interior of the Earth – Origin of	the Ear			
theories – Geol	-					
1						
Unit- II		Origin of Continents and Oceans		18	hou	irs
Origin of Conti	nents and Oce	<mark>ans - Continental Drift Theory — Plate Tectonics</mark> — Se	a Floor S	Spread	ding.	
Unit- III		Earthquakes and Volcanoes		18	hou	rs
Earthquakes an	d Volcanoes: I	<mark>Definition, causes and types- Distribution and e</mark> ffects.				
TI '4 TY/	8 5	4 - 4 - 1 - 1 - 1 - 1		10		
Unit- IV		arth movements: Endogenic and Exogenic		18	hou	irs
Earth movemen	nts: Endogenic	and Exogenic – Diastrophism – Folds - Faults: Types	S			
TI:4 X7		Decker Trues		10	harr	
Unit- V	Ignaous Sadir	Rocks: Types mentary and Metamorphic – Soil: Formation and Prof	Filo	19	hou	ırs
Rocks. Types -	igheous, Seun	mentary and Metamorphic – Son. Pormation and Pro-	iiie.			
		Total lecture	e hours		90	
Text Books:		1 our rectur	c nours		70	
	y, W.D., (1984). Principles of Geomorphology, John Wiley and Son	s, New	York.		
		, , , , , , , , , , , , , , , , , , , ,	· ·			
Books For Ref	erence:					
1 Strahler, A	A.N. and Strah	ler A.H., (1992). Modern Physical Geography, John a	and Wile	y Son	ıs, N	ew
York.						
		Book of Geomorphology, Shukla Book Depot, Patna.				
		Geomorphology, Prayag Pustak Bhawan, Allahabad.				
_	a, A and Kapo Ltd, New Del	or, A.N., (2001). Principles of Physical Geography, S	.C. Char	nd &		
		arth Surface Process and forms, Tata McGraw Hill P	uhlishin	r Con	าทุดท	
Ltd, New	Delhi.			5 0011	ւթաււ	J
6 Bloom, A	arthur L. (1998), Geomorphology, Pearson Education Pvt. Ltd. Singa	apore.			

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						
Cot	ırse Designed By: Dr. J. Ganesan						

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	S
CO4	M	S	S	M	S	M	S	S	M	L
CO5	S	S	S	S	S	S	S	S	S	S



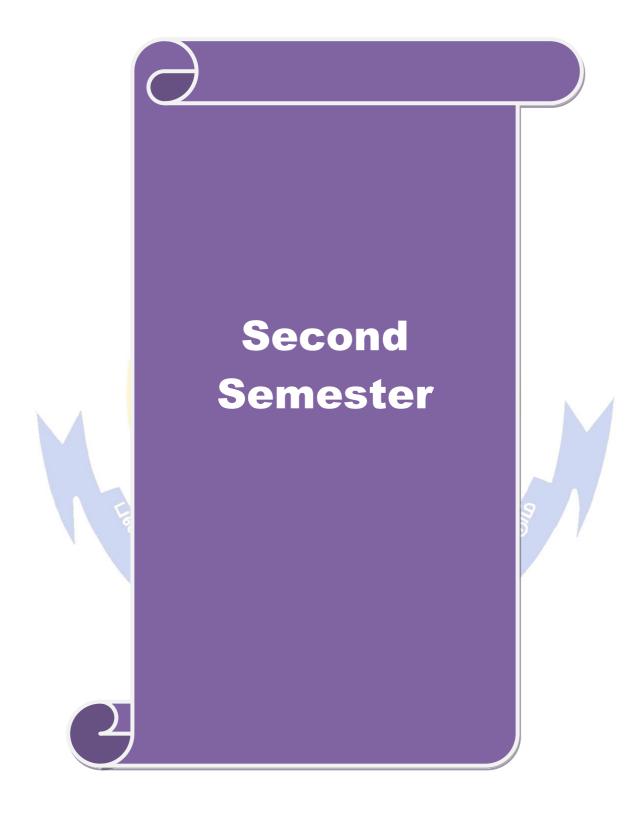


Course Outcome After the complet CO1 Understan CO2 Synthesize CO3 Study the sustainable CO4 Understan CO5 population K1 - Remember;	es: out the Location agriculture, Mi es: ion of course, d the physical e and develop e resource en e development d the conserve a distribution y	Basic knowledge of Geographical place in India on and extent - Physical features and Climate of India. ineral, Industries and Population aspects in India. the students will have ability to: profile of the country the idea of regional dimensions. dowment and its spatial distribution and utilization for the mineral resource and distribution variation and growth in India	ion	0 20 20 20 K1	22
Course Objective To understand about A Course Outcome After the complet CO1 Understan CO2 Synthesize CO3 Study the sustainable CO4 Understan CO5 population K1 - Remember;	out the Location agriculture, Mines: ion of course, do the physical erand development do the conserved distribution version and the conserved distribution version distribution dis	on and extent - Physical features and Climate of India. Ineral, Industries and Population aspects in India. the students will have ability to: profile of the country the idea of regional dimensions. dowment and its spatial distribution and utilization for the mineral resource and distribution	ion	20 K2	22
To understand about A To obtain a To obtain about A To obtain a To obtai	out the Location agriculture, Mines: ion of course, do the physical erand development do the conserved distribution version and the conserved distribution version distribution dis	the students will have ability to: profile of the country the idea of regional dimensions. dowment and its spatial distribution and utilization for the mineral resource and distribution	or		
Course Outcome After the complet CO1 Understan CO2 Synthesize CO3 Study the sustainable CO4 Understan CO5 populatior K1 - Remember; Unit- I	e and develop to e resource en e development d the conserve	the students will have ability to: profile of the country the idea of regional dimensions. dowment and its spatial distribution and utilization for the mineral resource and distribution	or		
Course Outcome After the complet CO1 Understan CO2 Synthesize CO3 Study the sustainable CO4 Understan CO5 population K1 - Remember;	ion of course, d the physical e and develop resource en e development d the conserve	the students will have ability to: profile of the country the idea of regional dimensions. dowment and its spatial distribution and utilization for the mineral resource and distribution	or		
After the complet CO1 Understan CO2 Synthesize CO3 Study the sustainable CO4 Understan CO5 populatior K1 - Remember; Unit- I	ion of course, d the physical e and develop resource en e development d the conserve distribution v	profile of the country the idea of regional dimensions. dowment and its spatial distribution and utilization for the mineral resource and distribution	or		
After the complet CO1 Understan CO2 Synthesize CO3 Study the sustainable CO4 Understan CO5 population K1 - Remember; Unit- I	ion of course, d the physical e and develop resource en e development d the conserve distribution v	profile of the country the idea of regional dimensions. dowment and its spatial distribution and utilization for the mineral resource and distribution	or		
CO1 Understan CO2 Synthesize CO3 Study the sustainable CO4 Understan CO5 population K1 - Remember; Unit- I	d the physical e and develop resource en e development d the conserve distribution v	profile of the country the idea of regional dimensions. dowment and its spatial distribution and utilization for the mineral resource and distribution	or		
CO2 Synthesize CO3 Study the sustainable CO4 Understan CO5 population K1 - Remember; Unit- I	e and develop to resource en e development d the conserved distribution v	the idea of regional dimensions. dowment and its spatial distribution and utilization for the mineral resource and distribution	or		
CO3 Study the sustainable CO4 Understan CO5 population K1 - Remember;	resource en e development d the conserve distribution v	dowment and its spatial distribution and utilization for the mineral resource and distribution	or		
sustainable CO4 Understan CO5 population K1 - Remember; Unit- I	e develop <mark>ment</mark> d the co <mark>nserve</mark> a distribut <mark>ion v</mark>	the mineral resource and distribution	01		
CO4 Understan CO5 population K1 - Remember; Unit- I	d the co <mark>nserve</mark> distribution v	the mineral resource and distribution		K3	
CO5 population K1 - Remember; Unit- I	distribution v		-	K3	
K1 - Remember; Unit- I			_	K2	
Unit- I	011441544	nd; K3 - Apply; K4 - Analyze; K5 - Evaluate;			
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
		Location and Extent	18	hou	rs
Location and Exto	ent – Physical	features – Major Physiographic Division – Drainage – Clim			
Natural Vegetatio					
Unit- II		Agriculture	18	hou	rs
Agriculture: Irrig	ation – Types	s and distribution – Major crops and their distribution:	Rice.	Wh	eat.
		ation Crops: Tea and coffee- Green Revolution – Proble			
Agriculture.					
	9				
Unit- III	CA.	Minerals	18	hou	rs
Minerals: Iron or	e, Copper, Mi	ca, Manganese, Bauxite and Atomic minerals – Power res	ource	s: C	oal,
Petroleum, Natura	al gas and hyd	al power – Multi-purpose projects - Atomic Power Stations	- Alt	erna	tive
Energy Resources	i	Sex.			
		B) F. F. LINES P			
Unit- IV		Industries		hou	
		oduction of major Industries: Cotton and Jute Textiles, Ir	on ar	ıd st	eel,
Sugar, Cement, C	hemical and A	Automobile - Major Industrial Regions.			
Unit- V		Population		hou	
		de: Population -Growth, density, distribution and problem	ns. Tr	ansp	ort:
Land, water and a	ir – Foreign tr	ade.			
			1		
		Total lecture hours		90	
Torr4 D 1-	(1070) A C	accomply of India Atheres & come New Dell.			
Text Books:	1. (1970). A (ti	eography of India, Atnaram & sons, New Delhi.			
1 Gopal Singh		lia – A Comprehensive Geography, Kalyani Publishers, Nev	15	L:	

Bool	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	ted 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
	(A)
Cou	rse Designed By: B. Sas <mark>ikuma</mark> r

Mapping	with Pro	ogram <mark>Ou</mark>	tcomes				No.			
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	L	S	M	L	S	S
CO4	M	S	S	M	S	M	S	S	M	S
CO5	S	S	M	S	L	S	S	M	S	M

S- Strong: M- Medium: L- Low



Cour	rse code	FUNDAMENTALS OF GEOMORPHOLOGY- II	L	T	P	С	
Core/	Elective	/ Supportive	Core	5	0	0	4
Pre-re	equisite		Basic knowledge in mountain, plain and plateau of the Earth	Sylla vers)21-)22
	se Object						
			e is to familiarize the students with the geomorphets will be able to understand various landforms of the				After
Cours	se Outco	mes:					
After	the comp	letion of course	e, the students will have ability to:				
CO1		lform develop	ment, and distinguish the mechanisms that contra			K2	2
CO2	of landf	forms.	is in climate, tectonics and environment affect the deve		nt	K	l
CO3			<mark>cales of time</mark> and space affect geom <mark>orphologic</mark> al proce	sses.		K3	
CO4			morphological methods used in research today.			K3	3
CO5			aphical landforms and morphological changes.			K2	2
K1 - F	Remembe	er; K2 - Unders	tand; K3 - Apply; K4 - Analyze; K5 - Evaluate;				
	nering and		Weathering and associated landforms Indforms: Gradational Process: Aggradation and Degra Resultant features.	idation	4	houeathe	
Unit-	. II		Fluvial landscapes		18	hou	ırs
Fluvia	al landsca		pattern, Agents of Erosion: Running water – Erosiof Erosion by Davis	onal &			
		8	S	7			
Unit-		9	Karst landscapes // S	1	18	hou	rs
Karst	landscape	es: Work of Ur	derground Water – Karst Landforms.				
			Collabatore		1		
Unit-			Glacial and Glaciofluvial landscapes			hou	rs
Glacia	al and Gla	aciofluvial lanc	lscapes: Glaciers – Types – Erosional & Depositional I	_andfoi	ms.		
Unit-	T 7		Aeolian landscapes		10	hou	
		apes: Wind – A	Aeolian Landforms – Wave – Coastal Landforms.		10	Hou	15
			Total lecture	hours		90	
Text l	Books:						
1	Tho	mbury W.D. (1	1969), Principles of Geomorphology, John Willey and	Sons N	ew Y	ork.	
Books	s For Ref	ference:					
1			(1989), Physical Geography, Prentice Hall, New Jerse	•			
2			G.(1972), A Text Book of Geomorphology, East West		ı		
3	Woo	obridge & Mor	gan, An Outline of Geomorphology, Longman London	1.			
4	Moi	nkhouse $\overline{\text{F.J.}}$ (1	976) Principles of Physical Geography, Hodder & Stro	oughton	, Lon	don.	

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	Designed By: M. Panneerselvam							

Mapping with Program Outcomes											
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	





Course code	23P	BASICS OF MAP MAKING - PRACTICAL	L	T	P	С		
Core/ Elective/	Supportive	Core	0	0	5	4		
Pre-requisite		Basic knowledge of map reading	Sylla	bus	20	21-		
			vers	ion	20)22		
Course Objecti								
	-	cale and Statement and Representative Fraction.						
To learn about I	Enlargement and	d Reduction of Maps, Contours, Slope and Drainage	Basin.					
<u> </u>								
Course Outcon		4 4 1 4 201 122 4						
		the students will have ability to:			K			
 CO1 Graduate student to prepare the scale and mapping knowledge. CO2 To understand the student learn map prepare and modify the scale. 								
					K1			
		physical features form the toposheets.			K3			
		divisions and toposheet knowledge.			K3			
		and; K3 - Apply; K4 - Analyze; K5 - Evaluate;			Λ2	<u> </u>		
IXI - Kemember	i, ix 2 - Unidersta	and, MS - Appry, M4 - Anaryze, M5 - Evaluate;						
Unit- I		Map Scale		10	hou	rc		
	ethods of repres	sentation of scales – Statement and Representative	Fractic					
Linear and Com			Tractio	ni. Oi	арт	cai.		
Emedi dhe con	iparative scares							
Unit- II	101	Enlargement and reduction of maps		18	hou	rs		
	d reduction of r	naps: Square and triangle – Measurement of distance	: Threa					
		and Strip methods.				1001		
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		7				
Unit- III	1	Representation of Relief		18	hou	rs		
Representation	of Relief: Con	tours: Different methods – Interpolation of contour	s - Cro					
selected relief for								
	8		11					
Unit- IV	90	Profile Drawing // / / / / / / / / / / / / / / / / /		18	hou	rs		
Profile Drawing	g: Serial, Super-	im <mark>pos</mark> ed, C <mark>omposite and Pr</mark> ojected – Altimetric Freq	uency (Curve.				
,	, Sh	Colmbatore		1				
Unit- V		Record		18	hou	rs		
Record – 20 Ma	arks	55 SLILITEDIT 2 LINE						
		EDUCATE TO ELEVATE Total lecture	hours		90			
Text Books:	T. 1.337''	N' 11D (1000) 14 1D' DID 11'		.	D 11			
		lkinson, H.R., (1989), Maps and Diagrams, B.I.Public				11.		
	• • • • • •	, Puvippadaviyaloor arimugam, Sree Meenakshi Of			11.			
		nents of Practical Geography, Kalyani Publishers, Ne						
4 Gopal sing	gh, (1996), Map	work and practical geography, Vikas Publishing Ho	use Pvt.	. Ltd.,				
Books For Refe								
		Geography, Educational Publishers, New Delhi.						
2 Zulfequar	Ahmad Khan, I	M. D., (1998), Text Book of Practical Geography, Co	ncept P	ublisl	ning			
	, New Delhi.							
_		ha Basu, (2010), Advanced Practical Geography, Boo	oks and	Allie	d Pv	t.		
Ltd, Kolka	ata.							

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
Con	rsa Dasignad Ry: Dr. I. Canasan

Mapping with Program Outcomes										
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

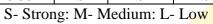




Cour	L	T	P	C						
Core/	Elective	Supportive	Core	4	0	0	4			
Pre-re	equisite		Basic knowledge of daily weather report	Sylla	bus	20	21-			
			observations	vers	ion	20)22			
	se Object									
			ere and its properties and Functions							
To lea	rn about	the Atmospheric	e Pressure, Wind, Cloud and Classification.							
-										
	se Outco		the students will have shility to:							
			the students will have ability to:			K2	,			
CO1	1									
CO2						K3				
CO3			change and monsoon conditions of the world. ional concepts of climate change and its impacts.			K3				
CO ₄			atic changes from the world.			K2				
			and; K3 - Apply; K4 - Analyze; K5 - Evaluate;			K ₂				
171 - 1	X THE HIDE	1, IX2 - Unidersta	and, MS - Appry, M4 - Anaryze, MS - Evaluate,							
Unit-	. т		Climatology		14	hou	rc			
		leaning scope a	nd content – Atmosphere: Composition and Structure	, -	17	Hou	15			
			on and its significances.							
***************************************	unor uno v	Communication of the contract	on the its significances.							
Unit-	II	700	Insolation	- 10	14	hou	rs			
		at ba <mark>lance – H</mark>	Iorizontal and vertical distribution of temperature	- Fac						
		temperature.								
		-	120 M. 1200 Volly		7					
Unit-	III	1 1	Atmospheric Pressure		15	hou	rs			
Atmos	spheric P	ressure: Vertica	l and Horizontal - Major Pressure Belts - Winds:	Planeta	ary ar	nd L	ocal			
Winds	s – Monso	oon - Atmo <mark>sphe</mark> i	ric Moisture: Humidity – Condensation and Clouds.		7					
		8	S	1						
Unit-	IV	90	Precipitation		14	hou	rs			
			in fa <mark>ll: Types <mark>and distribution</mark> of rainfall - Air masses</mark>	s: Type	s – Fr	onts	and			
it type	es – Cyclo	one: Tropical and	d Temperate.							
Unit-			Climatic Classification			hou				
Clima	tic Class	ification: Need	and basis - Koeppen's Classification - El-Nino and	d La- l	Vino	- Gl	obal			
Warm	ing - We	ather forecasting	J.							
			Total lecture	hours		72				
	Books:									
1			limatology, Chatianya Publishing House, Allahabad.							
2			80). Introduction to Climate, Tata McGraw Hill, New							
3	Crit	ch field, H.J., (1	987). General Climatology, Prentice Hall of India Pv	t. Ltd, I	New I	Delhi	l.			
	s For Ref				-	.				
1		lhartha, K., (200 v Delhi.	95). Atmosphere, Weather and Climate, Kisalaya Pub	lication	s Pvt.	Ltd	••,			
2			ley (1970). Elements of Meteorology, John Willey &	sons in	ic, Ne	wY	ork.			
3			02). Physical Geography, Prayag Pustak Bhawan, All							
	ı	<u> </u>								

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

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	S	S	S	M	S	S	S	S	L	S
CO5	S	S	S	S	L	S	M	S	S	M





Cour	Course code 33B POPULATION AND SETTLEMENT L T P C								
Core/	Elective	Supportive	Core	4	0	0	4		
Pre-re	equisite		Knowledge of demographic character	Sylla	bus	20	21-		
				vers	ion	20)22		
Cours	se Object	ives:							
To un	derstand a	about the Orig	in and Development of Settlements, Types and Theorie	s.					
To lea	ırn about l	Rural, Urban S	Settlements and Characteristics.						
Cours	se Outcor	mes:							
After			e, the student <mark>s will have abil</mark> ity to:						
CO1			ım <mark>an and cultural landsc</mark> ape at <mark>different le</mark> vels.			K2	2		
CO2			and processes of population growth and it impl	ication	S.	K 1	1		
			and quality of human landscapes.						
CO3			ynamics and characteristic with contemporary issues.			K3			
CO4			e of key concept, different components of population.			K3			
CO5			and quality of human landscapes.			K2	2		
K1 - F	Remembe	r; K2 - Unders	stand; K3 - Apply; K4 - Analyze; K5 - Evaluate;						
	T	GE			ī				
Unit-		74	Population Geography		15	hou	rs		
			e and Conte <mark>nt – Factors affecting Population Distribu</mark> tion	n 🧥					
–Popu	ilation Di	stribution of li	ndia and World.						
A.			La Distanting and a						
Unit-			Population Growth			hou			
			affecting Population Growth – Demographic Tran	sition	– Pc	pula	tion		
Comp	osition ar	ia Structure –	Fertility and Mortality Rates.		7				
TT . •4	TTT	TO TO	TI W M. C.		1.4	1			
Unit-		ant Footons	Human Migration	a. Mal4		hou			
	_	on: Factors – l Transitional.	Causes and Consequences – Types – Population theorie	s: Man	nus –	Kica	ıruo		
– Opu	iiiiuiii aiiu	i Transinonai.	334						
Unit-	TX/		Cottlement Coography		1.4	hou			
		ography: Site	Settlement Geography and Situation –Types - Urban Land use Theories: Co	oncent					
	ple-Nucle		and Situation Types - Orban Land use Theories. Co	JIICCIIII	IC -	SCCII	л –		
with	pic rucic	1.							
Unit-	· V		Urban Centers		14	hou	rs		
		· Growth and	Development - Associated Problems – Metropoli	s Me					
			les of Coimbatore, Chennai and Delhi.	5, 1110	5arob	011 0	ana		
201101			Johnson Chemin who Delli						
			Total lecture	hours		72			
Toy 1	Books:		2 out leetule						
1	Mandal	R.B (2009), U	Jrban Geography: A Text Book; Concept Publishing Co	., New	Delh	i.			
2	2 Siddhartha K, (2013), Cities, Urbanisation and Urban Systems, Kisalaya publication Pvt. Ltd New Delhi.								

Books	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

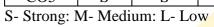
Mappi	Mapping with Program Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
CO1	S	S	S	M	S	S	S	S	M	S		
CO2	M	S	M	S	L	M	S	M	S	M		
CO3	S	M	S	S	L	S	L	S	S	M		
CO4	M	S	S	M	S	M	S	S	M	, S		
CO5	S	M	S	S	S	S	M	S	S	S		

S- Strong: M- Medium: L- Low

Course code	3AC	ELEMENTS OF CARTOGRAPHY	L	T	P	\mathbf{C}		
Core/ Elective/	Supportive		5	0	0	4		
Pre-requisite			yllabı		202			
			versio	n	20	<u>22</u>		
Course Objecti								
		c concepts, techniques of cartography. After completi	on of	col	ırse	the		
students will un	derstand the art	and science of map making.						
<u> </u>								
A fter the compl		the students will have ability to:						
_					K2			
CO1 Read and prepare the maps.CO2 Comprehend locational and spatial aspects of the earth surface.								
		maps for regional development and decision-making.			K1 K3			
		maps and uses.			K3			
		tography knowledge form the yearly period.			K2			
		and; K3 - Apply; K4 - Analyze; K5 - Evaluate;						
	,	TE-37-2-1 and July 22.						
Unit- I		Cartography		18	hou	rs		
Cartography: D	efinition, Scor	be and Content - Maps: types and uses - Branches of	of Ca	rtog	raph	y –		
U 1 5	_	rom Ancient to Recent Period.		Ü		,		
	120	All Division St. Utilian	E.	1				
Unit- II		Map Scales Map Scales			hou			
		Map Scales – Enlargement and Reduction – Direction at	nd Be	arin	g – (Co-		
ordinate System	n – Pr <mark>ojection: (</mark>	Classification and Uses.						
77 11 777	10		/	40				
Unit- III	1.01	Map data	A	18	hou	rs		
Map data: Colle	ection and Class	ification –Base map – Complication – Generalization.						
Unit- IV	CH CH	Man Design and Leveut	7	10	hou			
	d Lavout: Sym	Map Design and Layout abolization — Lettering Styles, Standardization of Name						
				CCII	annes	OI		
Wap Constructi		aterials Equ <mark>inment's and I</mark> nstruments	25 171					
	on. Bluwing ivi	aterials, Equipment's and Instruments.						
Unit- V	om Diawing in	\$ 6		18	hom	rs		
Unit- V Thematic and C	~	Thematic and Complex Mapping			hou tions			
Thematic and C	Complex Mappi	\$ 6						
Thematic and C	Complex Mappi	Thematic and Complex Mapping ng – Topographic Mapping - Atlas Mapping – Mapping						
Thematic and C	Complex Mappi	Thematic and Complex Mapping ng – Topographic Mapping - Atlas Mapping – Mapping	g Orga					
Thematic and C India: GSI, SOI Text Books:	Complex Mappi - NATMO –Re	Thematic and Complex Mapping ng – Topographic Mapping - Atlas Mapping – Mapping cent trends in Cartography. Total lecture hou	g Orga	niza	tions			
Thematic and C India: GSI, SOI Text Books: 1 Misra, R.	Complex Mappi - NATMO –Re P. and Ramesh	Thematic and Complex Mapping ng – Topographic Mapping - Atlas Mapping – Mapping cent trends in Cartography.	g Orga	niza	tions			
Thematic and C India: GSI, SOI Text Books: 1 Misra, R. Company	Complex Mappi - NATMO –Re P. and Ramesh y, New Delhi.	Thematic and Complex Mapping ng – Topographic Mapping - Atlas Mapping – Mapping cent trends in Cartography. Total lecture hou , A., (2002), Fundamentals of Cartography, Concept Pub	g Orga	niza	tions			
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Thematic and C India: GSI, SOI Text Books: 1 Misra, R. Company 2 Robinson Books For Reference	P. and Ramesh V, New Delhi.	Thematic and Complex Mapping ng – Topographic Mapping - Atlas Mapping – Mapping cent trends in Cartography. Total lecture hou A., (2002), Fundamentals of Cartography, Concept Pub Elements of Cartography, John Wiley, London.	g Orga	niza on	90	s of		
Thematic and C India: GSI, SOI Text Books: 1 Misra, R. Company 2 Robinson Books For Reference 1 Monkhou	Complex Mappi - NATMO –Re P. and Ramesh V, New Delhi. h, A.H., (1984), erence: use, F.J. and Wi	Thematic and Complex Mapping ng – Topographic Mapping - Atlas Mapping – Mapping cent trends in Cartography. Total lecture hou A., (2002), Fundamentals of Cartography, Concept Pub Elements of Cartography, John Wiley, London. lkinson, H.R., (1989), Maps and Diagrams, B.I.Publicati	g Orga	niza on New	90 Dell	s of		
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Thematic and C India: GSI, SOI Text Books: 1 Misra, R. Company 2 Robinson Books For Refe 1 Monkhou 2 Sethu Ra 3 Keates, J 4 Erwin Ra	Complex Mappi - NATMO –Re P. and Ramesh V, New Delhi. A, A.H., (1984), Perence: Use, F.J. and Wikayi, S., (2014) L. S., (1982), Unit, (1948), Gen	Thematic and Complex Mapping ng – Topographic Mapping - Atlas Mapping – Mapping cent trends in Cartography. Total lecture hou A., (2002), Fundamentals of Cartography, Concept Pub Elements of Cartography, John Wiley, London. lkinson, H.R., (1989), Maps and Diagrams, B.I.Publicati b), Puvippadaviyaloor arimugam, Sree Meenakshi Offsets	g Orga	niza on New	90 Dell	s of		

Relat	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 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	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

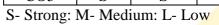




Course co	de 3ZA	BASICS IN COMPUTER L	T	P	C
Core/ Elect	tive/ Supportive	Skill Based 3	0	0	3
Pre-requisi	ite	Basic Knowledge in Computer Sylla	bus		21-
G 01	•	vers	ion	20)22
Course Ob		- 1 - 11 1 1 - i i i i Windows	4	1	
_		s should: learn basic principles of using Windows operation	•	m, 1	earn
and practice	e basic keyboardin	g and mouse use and search engines, and locate www address	es.		
Course Ou	tcomes:				
		e, the students will have ability to:			
	c features of Micr	·		K	2
CO2 Imp	rove the basic kno	wledge for computer operating system.		K	1
		ower point presentation for research work.		K.	3
	•	pare the chart and table.		K.	3
	erstand the email a			K2	2
K1 - Remer	nber; K2 - <mark>Unders</mark>	stand; K3 - Apply; K4 - Analyze; K5 - Evaluate;			
TT *4 T			44	,	
Unit- I		Meaning of computer		hou	
		nputer- history of computer – advantage of computer. – uses	of coi	nput	er –
types of cor	nputer – parts of c	computer – computer hardware and software.			
IInit II	4	MS office	11	hou	re
Unit- II MS office:	Microsoft word n	MS office	_	hou	
MS office:		rocessing – features of word processing – menu and comman	nds –	tool	bars
MS office: and button	 word formation 	rocessing – features of word processing – menu and comman n toolbars – creation documents – saving and documents –	nds –	tool	bars
MS office: and button	 word formation 	rocessing – features of word processing – menu and comman	nds –	tool	bars
MS office: and button documents -	 word formation 	rocessing – features of word processing – menu and comman n toolbars – creation documents – saving and documents – g – working with tables.	nds – - prin	tool ting	bars and
MS office: and button documents -	 word formation paragraph setting 	rocessing – features of word processing – menu and comman n toolbars – creation documents – saving and documents – g – working with tables. Introduction to MS- excel	nds – - prin	tool ting hou	bars and
MS office: and button documents -	- word formation - paragraph setting n to MS- excel -	rocessing – features of word processing – menu and command toolbars – creation documents – saving and documents – g – working with tables. Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell	nds – - prin	tool ting hou	bars and
MS office: and button documents -	- word formation - paragraph setting n to MS- excel -	rocessing – features of word processing – menu and comman n toolbars – creation documents – saving and documents – g – working with tables. Introduction to MS- excel	nds – - prin	tool ting hou	bars and
MS office: and button documents - Unit- III Introduction adders – par	- word formation - paragraph setting n to MS- excel -	rocessing – features of word processing – menu and command toolbars – creation documents – saving and documents – g – working with tables. Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell	nds – prin 11 point	tool ting hou	and ars cell
MS office: and button documents - Unit- III Introduction adders – par Unit- IV Microsoft P	- word formation - paragraph setting n to MS- excel - a rts of ms-excel win PowerPoint: power	rocessing – features of word processing – menu and command toolbars – creation documents – saving and documents – g – working with tables. Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell ndow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint r point basics – create presentation – insert and modify text – s	nds – prin 11 point	tool ting hou er –	and ors cell
MS office: and button documents - Unit- III Introduction adders – par Unit- IV Microsoft P	- word formation - paragraph setting - to MS- excel - arts of ms-excel win	rocessing – features of word processing – menu and command toolbars – creation documents – saving and documents – g – working with tables. Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell ndow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint r point basics – create presentation – insert and modify text – s	nds – prin 11 point	tool ting hou er –	and ors cell
MS office: and button documents - Unit- III Introduction adders – par Unit- IV Microsoft P animation a	- word formation - paragraph setting n to MS- excel - a rts of ms-excel win PowerPoint: power	rocessing – features of word processing – menu and command toolbars – creation documents – saving and documents – g – working with tables. Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell ndow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint point basics – create presentation – insert and modify text – s.	nds – prin 11 point 11 insert	hou er –	and ars cell
MS office: and button documents - Unit- III Introduction adders – par Unit- IV Microsoft P animation a	- word formation - paragraph setting n to MS- excel - rets of ms-excel win CowerPoint: power nd slide transition	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell ndow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint point basics – create presentation – insert and modify text – is. The internet: introduction	nds – prin 11 point 11 insert	hou er –	and ars cell ars edit
MS office: and button documents Unit- III Introduction adders – par Unit- IV Microsoft P animation a Unit- V The interne	- word formation - paragraph setting n to MS- excel — rts of ms-excel win PowerPoint: power nd slide transition t: introduction — i	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell Indow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint repoint basics – create presentation – insert and modify text – is. The internet: introduction internet history – use of internet – World Wide Web - creat	nds – prin 11 point 11 insert	hou er –	and ars cell ars edit
MS office: and button documents - Unit- III Introduction adders - par Unit- IV Microsoft P animation a Unit- V The interne	- word formation - paragraph setting n to MS- excel — rts of ms-excel win PowerPoint: power nd slide transition t: introduction — i	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell ndow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint T point basics – create presentation – insert and modify text – s. The internet: introduction internet history – use of internet – World Wide Web - creat wnloading and uploading.	nds – prin 11 point 11 insert	hou er – hou and	and ars cell ars edit
MS office: and button documents - Unit- III Introduction adders - pan Unit- IV Microsoft P animation a Unit- V The interne account- se	- word formation - paragraph setting n to MS- excel — rts of ms-excel win PowerPoint: power nd slide transition t: introduction — i arch engines — dov	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell Indow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint repoint basics – create presentation – insert and modify text – is. The internet: introduction internet history – use of internet – World Wide Web - creat	nds – prin 11 point 11 insert	hou er –	and ars cell
MS office: and button documents - Unit- III Introduction adders - par Unit- IV Microsoft P animation a Unit- V The interne account - se Text Books	- word formation - paragraph setting n to MS- excel — rts of ms-excel win PowerPoint: power nd slide transition t: introduction — i arch engines — dov	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell ndow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint point basics – create presentation – insert and modify text – s. The internet: introduction internet history – use of internet – World Wide Web - creat wnloading and uploading. Total lecture hours	11 point 11 insert 10 ion a	hou er – hou and	and ars cell
MS office: and button documents - Unit- III Introduction adders - par Unit- IV Microsoft P animation a Unit- V The interne account - se Text Books 1	- word formation - paragraph setting - to MS- excel - rets of ms-excel wing - coverPoint: power nd slide transition - t: introduction - in arch engines - dov - Rajaraman. V" Fun	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell indow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint r point basics – create presentation – insert and modify text – is. The internet: introduction internet history – use of internet – World Wide Web - creat willoading and uploading. Total lecture hours Introduction of the internet of the internet history in the internet history – use of internet – world wide Web – creat willoading and uploading. Total lecture hours	11 point 11 insert 10 ion a	hou er – hou and	and ars cell
MS office: and button documents - Unit- III Introduction adders - par Unit- IV Microsoft P animation a Unit- V The interne account - se Text Books 1	- word formation - paragraph setting - to MS- excel - rets of ms-excel wing - coverPoint: power nd slide transition - t: introduction - in arch engines - dov - Rajaraman. V" Fun	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell ndow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint point basics – create presentation – insert and modify text – s. The internet: introduction internet history – use of internet – World Wide Web - creat wnloading and uploading. Total lecture hours	11 point 11 insert 10 ion a	hou er – hou and	and ars cell
MS office: and button documents - Unit- III Introduction adders - par Unit- IV Microsoft P animation a Unit- V The interne account - se Text Books 1 1 2 1	- word formation - paragraph setting n to MS- excel — rts of ms-excel win cowerPoint: power nd slide transition t: introduction — i arch engines — dov s: Rajaraman. V" Fun Ram. B," Compute	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell indow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint r point basics – create presentation – insert and modify text – is. The internet: introduction internet history – use of internet – World Wide Web - creat willoading and uploading. Total lecture hours Introduction of the internet of the internet history in the internet history – use of internet – world wide Web – creat willoading and uploading. Total lecture hours	11 point 11 insert 10 ion a	hou er – hou and	and ars cell
MS office: and button documents - Unit- III Introduction adders - par Unit- IV Microsoft P animation a Unit- V The interne account - se Text Books 1	- word formation - paragraph setting n to MS- excel — rts of ms-excel win PowerPoint: power nd slide transition t: introduction — i arch engines — dov Rajaraman. V" Fur Ram. B," Compute Reference:	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell indow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint The internet: introduction internet history – use of internet – World Wide Web - creat willoading and uploading. Total lecture hours Indomentals of Computers" Prentice Hall India Pvt., Limited, 2 The remainder of the computer of the com	11 point 11 insert 2004	hou er – hou and	and ars cell
MS office: and button documents - Unit- III Introduction adders - par Unit- IV Microsoft P animation a Unit- V The interne account - se Text Books 1	- word formation - paragraph setting n to MS- excel — rts of ms-excel win PowerPoint: power nd slide transition t: introduction — i arch engines — dov Rajaraman. V" Fun Ram. B," Compute Reference: Alexis Leon, Math	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell indow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint Topoint basics – create presentation – insert and modify text – is. The internet: introduction internet history – use of internet – World Wide Web - creat willoading and uploading. Total lecture hours Indamentals of Computers" Prentice Hall India Pvt., Limited, 2 are Fundamentals" New Age International Publishers, 2014 The international Publishers, 2014 The international Publishers, 2014	11 point 11 insert 2004	hou and hou and 54	and ars cell
MS office: and button documents - Unit- III Introduction adders - par Unit- IV Microsoft P animation a Unit- V The interne account - se Text Books 1	- word formation - paragraph setting n to MS- excel — rts of ms-excel win PowerPoint: power nd slide transition t: introduction — i arch engines — dov Rajaraman. V" Fun Ram. B," Compute Reference: Alexis Leon, Math	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell indow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint The internet: introduction internet history – use of internet – World Wide Web - creat willoading and uploading. Total lecture hours Indomentals of Computers" Prentice Hall India Pvt., Limited, 2 The remainder of the computer of the com	11 point 11 insert 2004	hou and hou and 54	and ars cell
MS office: and button documents - Unit- III Introduction adders - par Unit- IV Microsoft P animation a Unit- V The interne account - se Text Books 1	- word formation - paragraph setting n to MS- excel — rts of ms-excel win PowerPoint: power nd slide transition t: introduction — i arch engines — dov Rajaraman. V" Fur Ram. B," Compute Reference: Alexis Leon, Math Horowitz. E. and S Company	Introduction to MS- excel features of ms-excel – spread sheet – work sheet cell – cell indow – creating excel sheet, functions in excel sheet – chart. Microsoft PowerPoint Topoint basics – create presentation – insert and modify text – is. The internet: introduction internet history – use of internet – World Wide Web - creat willoading and uploading. Total lecture hours Indamentals of Computers" Prentice Hall India Pvt., Limited, 2 are Fundamentals" New Age International Publishers, 2014 The international Publishers, 2014 The international Publishers, 2014	11 point 11 point 10 insert 2004	hou and hou and 54	urs cell

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 I	Designed By: M. Logamani						

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	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	irse code 43A OCEANOGRAPHY L T					
Core/ Elective/	Supportive	Core	4	0	0	4
Pre-requisite		Basic knowledge in coastal landforms	Sylla vers)21-)22
Course Object	ives:		1			
		eans and Bottom relief Features.				
To learn about t	the Ocean Curre	ents, Ocean Deposits and Conservation of marine res	ource.			
<u> </u>						
Course Outcor		the students will have ability to:				
		process and availability of resources.			K	
	relief of the oce				K	
		l salinity level from the world.			K.	
		es the coastal land forms.			K.	
		e mineral resource deposit form the ocean bottom of	the reli	ef	IZ/	
features	. 3				K	
K1 - Remembe	r; K2 - Un <mark>dersta</mark>	and; K3 - Apply; K4 - Analyze; K5 - Evaluate;				
	G.			1		
Unit- I	- 91	Oceanography ope and content – Oceans and Seas: Extent and			hou	
Trenches.		(Carried on Section)				
Unit- II		Bottom relief features		14	hou	ırs
Bottom relief fe	eatures of P <mark>acifi</mark>	c, Atlantic and Indian Oceans.	<u> </u>			
	9				_	
Unit- III	Atrona and Calini	Ocean Temperature and Salinity	al Eas		hou	
-	d Salinity Distr	ty: Distribution and factors - Horizontal and Vertic ibution.	ai – Fac	HOIS 8	arrec	ung
TI:4 TX7		Occar Water Mayor outs		1.4	h a v	
Unit- IV	Movements: Wes	Ocean Water Movements ves and Tides – Ocean Currents: types - currents of	Dogific		hou	
Indian Oceans.	iovements. wa	ves and Tides – Ocean Currents of	raciiic	, Au		anu
Unit- V		Oceans Deposits		14	hou	ırs
	its: types – C	oral reefs: Formation and Types – Oceans reso	ources			
Conservation.						
		Total lecture	hours		72	
Text Books:					_	
1 Mor Dell		d Wilkinson, H.R., (1989), Maps and Diagrams, B.I.	Publicat	ions,	New	7
2 Seth	u Rakkayi, S., (2014), Puvippadaviyaloor arimugam, Sree Meenaksl	ni Offse	ts, Ma	adur	ai.
3 Sing	sh, R. L., (2005)	, Elements of Practical Geography, Kalyani Publishe	ers, New	Dell	ni.	
I						

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	S	S	S	M	S	L		

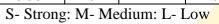
S- Strong: M- Medium: L- Low



Cour	rse code	43P	MAP INTERPRETATION AND REPRESENTATION OF CLIMATIC DATA – PRACTICAL	L	T	P	С
Core/	Elective/	Supportive	Core	0	0	4	4
Pre-re	equisite		Basic Knowledge of map reading and daily weather report observation	Sylla			21-)22
Cours	se Object	ives:	Toport ocsar tarion	, , ,	71011		
			ey of India Topographic sheets, SOI and USGS Maps				
To lea	ırn about l	Indian daily w	eather report and climatic diagrams.				
Cours	se Outcor	nes:					
After t	the compl	letion of cours	e, the student <mark>s will have abi</mark> lity to:				
CO1	To unde	erstand the topo	osh <mark>eet practical knowledge.</mark>			K2)
CO2	Underst	and sings and	symbols real world features.			K1	
CO3	Practica	l knowledg <mark>e a</mark>	pply daily weather report.			K3	3
CO4		the clima <mark>tic d</mark>				K3	3
CO5		and the climat				K2	2
K1 - F	Remembe	r; K2 - Unders	stand; K3 - Apply; K4 - Analyze; K5 - Evaluate;				
Unit-	- T		Survey of India Topographic Maps		15	hou	rs
		Topographic	Maps: Conventional Sings and Symbols – Cartograp	hic Apr			
Surve							ana
	•	f SOI maps.	Trups. Conventional Sings and Symbols Cartograp	ine ripi)Teera		ana
Interp	retation o				\mathcal{M}		
Interpr	retation o	f SOI maps.	Indian Daily Weather Reports		15	hou	rs
Interpr	retation o	f SOI maps.			15	hou	rs
Unit- Indian	II Daily W	f SOI maps.	Indian Daily Weather Reports Sings and Symbols – Station model - Interpretation		15 ther R	hou epor	rs ts.
Unit- Indian	II Daily W	f SOI maps.	Indian Daily Weather Reports Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs		15 ther R	hou	rs ts.
Unit- Indian	II Daily W	f SOI maps.	Indian Daily Weather Reports Sings and Symbols – Station model - Interpretation		15 ther R	hou epor	rs ts.
Unit- Indian Unit- Clima	II Daily W	f SOI maps.	Indian Daily Weather Reports S: Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs Caylor's Climograph – Hythergraph and Ergograph.		15 ther R	hou epor hou	rs ts.
Unit- Indian Unit- Clima Unit-	II Daily W	eather Reports	Indian Daily Weather Reports S: Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph – Hythergraph and Ergograph. Climatic Diagrams	of Weat	15 ther R	hou epor	rs ts.
Unit- Indian Unit- Clima Unit-	II Daily W	eather Reports	Indian Daily Weather Reports S: Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs Caylor's Climograph – Hythergraph and Ergograph.	of Weat	15 ther R	hou epor hou	rs ts.
Unit- Indian Unit- Clima Unit-	II n Daily W III n Diagra	eather Reports	Indian Daily Weather Reports S: Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph – Hythergraph and Ergograph. Climatic Diagrams	of Weat	15 ther R 14 14 und.	hou epor hou	rs ts.
Unit- Clima Unit- Clima Unit- Unit-	II n Daily W III n Diagra	eather Reports ams: Graphs: T	Indian Daily Weather Reports S: Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph – Hythergraph and Ergograph. Climatic Diagrams Dispersion – Wind Rose: Simple, Star, Octagonal and	of Weat	15 ther R 14 14 und.	hou epor hou hou	rs ts.
Unit- Clima Unit- Clima Unit- Unit-	III n Daily W III ntic Diagra	eather Reports ams: Graphs: T	Indian Daily Weather Reports S: Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph – Hythergraph and Ergograph. Climatic Diagrams Dispersion – Wind Rose: Simple, Star, Octagonal and	of Weat	15 ther R 14 14 und.	hou epor hou hou	rs ts.
Unit- Clima Unit- Clima Unit- Clima	II n Daily W III ntic Diagra IV ntic Diag	eather Reports ams: Graphs: T	Indian Daily Weather Reports Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph - Hythergraph and Ergograph. Climatic Diagrams Dispersion - Wind Rose: Simple, Star, Octagonal and Record	of Weat	15 ther R 14 14 und.	hou epor hou hou	rs ts.
Unit- Clima Unit- Clima Unit- Clima	II Daily W III Litic Diagra IV Litic Diagra V Litic Diagra d work –	eather Reports mms: Graphs: T mms: Rainfall I 20 Marks	Indian Daily Weather Reports Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph - Hythergraph and Ergograph. Climatic Diagrams Dispersion - Wind Rose: Simple, Star, Octagonal and Record	of Weat	15 ther R 14 und.	hou hou 72	rs ts. rs rs
Unit- Clima Unit- Clima Unit- Text I	II n Daily W III n Daily W n Daily W n Daily W n Diagra N n Diagr	eather Reports mms: Graphs: T mms: Rainfall I 20 Marks use, F.J. and W	Indian Daily Weather Reports Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph - Hythergraph and Ergograph. Climatic Diagrams Dispersion - Wind Rose: Simple, Star, Octagonal and Record Total lecture	of Weat	15 ther R 14 und.	hou hou 72	rs rs rs
Unit- Clima Unit- Clima Unit- Clima Unit- Record	III Daily W III Daily W III Diagra IV Diagra	eather Reports mms: Graphs: Tomas: Rainfall I 20 Marks use, F.J. and Werence:	Indian Daily Weather Reports Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph – Hythergraph and Ergograph. Climatic Diagrams Dispersion – Wind Rose: Simple, Star, Octagonal and Record Total lecture Vilkinson, H.R., (1989), Maps and Diagrams, B.I.Pub	of Weat Compo e hours ications	15 ther R 14 14 und. 14 14 und.	hou hou 72	rs ts. rs rs hi.
Unit- Clima Unit- Clima Unit- Clima Unit- Record	III Daily W III Daily W III Diagra IV Diagra	eather Reports ams: Graphs: Tams: Rainfall I 20 Marks use, F.J. and W erence: nti Saha and P.	Indian Daily Weather Reports Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph - Hythergraph and Ergograph. Climatic Diagrams Dispersion - Wind Rose: Simple, Star, Octagonal and Record Total lecture	of Weat Compo e hours ications	15 ther R 14 14 und. 14 14 und.	hou hou 72	rs ts. rs rs hi.
Unit- Clima Unit- Clima Unit- Record Text I 1 Books 1	III n Daily W III n Dail	eather Reports ams: Graphs: Total ams: Rainfall I 20 Marks ase, F.J. and Werence: nti Saha and Pacata. r Ahmad Khar	Indian Daily Weather Reports Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph – Hythergraph and Ergograph. Climatic Diagrams Dispersion – Wind Rose: Simple, Star, Octagonal and Record Total lecture Vilkinson, H.R., (1989), Maps and Diagrams, B.I.Pub	of Weat	14 14 14 14 14 14 14 14 14 14 14 14 14 1	hou hou T2 Del	rs rs rs rs
Unit- Clima Unit- Clima Unit- Recore Text I 1 Books 1	II III I	eather Reports ams: Graphs: Tams: Rainfall I 20 Marks use, F.J. and W erence: nti Saha and Pacata. r Ahmad Khar	Indian Daily Weather Reports Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph – Hythergraph and Ergograph. Climatic Diagrams Dispersion – Wind Rose: Simple, Star, Octagonal and Record Total lecture Vilkinson, H.R., (1989), Maps and Diagrams, B.I.Publartha Basu, (2010). Advanced Practical Geography, En, M. D., (1998). Text Book of Practical Geography, Company of the Co	Compo c hours ications cooks an	14 14 14 14 14 In the state of	hou hou T2 Del	rs rs rs rs
Unit- Clima Unit- Clima Unit- Record Text I Books 1 2 3	II III III III III III III III III III IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIII IIII IIII IIII IIIII IIIII IIII IIII IIII IIII IIII IIII IIIII IIII IIIII IIII IIII IIII IIII IIII IIII IIIII IIII IIII IIII IIII IIIIII	eather Reports mms: Graphs: Total Incomplete Complete Co	Indian Daily Weather Reports Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph – Hythergraph and Ergograph. Climatic Diagrams Dispersion – Wind Rose: Simple, Star, Octagonal and Record Total lecture Vilkinson, H.R., (1989), Maps and Diagrams, B.I.Pub artha Basu, (2010). Advanced Practical Geography, En, M. D., (1998). Text Book of Practical Geography, Clements of Practical Geography, Kalyani Publishers, I	Compo c hours ications ooks an Concept	14 14 14 14 14 14 Publi	hou hou hou cell hou hou hou shing	rs rs rs rs
Unit- Clima Unit- Clima Unit- Recore Text I 1 Books 1	III In Daily W III In Daily W III In Diagra IV Itic Diagra Itin Dia	eather Reports ams: Graphs: Total Interports ams: Rainfall Interport	Indian Daily Weather Reports Sings and Symbols – Station model - Interpretation Climatic Diagrams and Graphs Taylor's Climograph – Hythergraph and Ergograph. Climatic Diagrams Dispersion – Wind Rose: Simple, Star, Octagonal and Record Total lecture Vilkinson, H.R., (1989), Maps and Diagrams, B.I.Publartha Basu, (2010). Advanced Practical Geography, En, M. D., (1998). Text Book of Practical Geography, Company of the Co	Compo c hours ications ooks an Concept	14 14 14 14 14 14 Publi	hou hou hou cell hou hou hou shing	rs rs rs rs

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 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





Core/ Elective/ Supportive Basic knowledge of Atlas Reading Syllabus 2021- Course Objectives: Basic knowledge of Atlas Reading Syllabus 2021- Course Objectives: Description 2022- Course Objectives: Description 2022- The course provides the basic concepts, techniques of cartography. After completion of course the students will understand the arts and science of map making. The practical course is to provide technical skills in construction of map projection and learn various mapping techniques to the students. Course Outcomes:	Course code	43Q	CARTOGRAPHY – PRACTICAL	L	T	P	C			
Course Objectives: The course provides the basic concepts, techniques of cartography. After completion of course the students will understand the arts and science of map making. The practical course is to provide technical skills in construction of map projection and learn various mapping techniques to the students. Course Outcomes: After the completion of course, the students will have ability to: CO1 Have sound knowledge regarding the classification and elements of maps	Core/ Elective/	Supportive	Allied	0	0	5	4			
Course Objectives: The course provides the basic concepts, techniques of cartography. After completion of course the students will understand the arts and science of map making. The practical course is to provide technical skills in construction of map projection and learn various mapping techniques to the students. Course Outcomes: After the completion of course, the students will have ability to: COI Have sound knowledge regarding the classification and elements of maps K2 CO2 Have proper utilization of maps for the development K1 K1 CO3 Practical knowledge to develop map construction for feature plan. K3 CO4 To understand real world mapping practical knowledge. K3 K1 Remember; K2 - Understand; K3 - Apply: K4 - Analyze; K5 - Evaluate; Unit-1 Map Projections Map Projections I5 hours Map Projections: types - Construction, Properties and uses of Conical Projection - One and Two standard Parallel - Bonne's and Polyconic Projection. Construction, properties and uses of Cylindrical Projection - Equi-distant and equal area Projection. Construction, properties and uses of Cylindrical Projection - Equi-distant and equal area Projection. I8 hours Properties and uses of Zenithal Projection - Equi-distant and equal area Projection - Equi-distant and cotal area Projection - Equi-distant and cotal area Projection - Equi-distant and cotal area Projection I8 hours Properties and uses of Zenithal Projection - Equi-distant and cotal area Projection - Equi-distant and cotal projection - Equi-distant and cotal area Projection I8 hours Properties and uses of Zenithal Projection - Equi-distant and cotal projection I8 hours Properties and uses of Zenithal Projection - Equi-distant and cotal projection I8 hours Properties and uses of Zenithal Projection - Equi-distant and cotal projection I8 hours Properties and uses of Zenithal Projection - Equi-distant and cotal projection I8 hours Properties and uses of Zenithal Projection I8 hours Properties and u	Pre-requisite	• •	Basic knowledge of Atlas Reading	Sylla	bus	20	21-			
The course provides the basic concepts, techniques of cartography. After completion of course the students will understand the arts and science of map making. The practical course is to provide technical skills in construction of map projection and learn various mapping techniques to the students. Course Outcomes:				vers	ion	20)22			
students will understand the arts and science of map making. The practical course is to provide technical skills in construction of map projection and learn various mapping techniques to the students. Course Outcomes:										
Skills in construction of map projection and learn various mapping techniques to the students.										
Course Outcomes: After the completion of course, the students will have ability to: CO1						echr	nical			
After the completion of course, the students will have ability to: CO1 Have sound knowledge regarding the classification and elements of maps	skills in constru	ction of map pr	ojection and learn various mapping techniques to the	studen	ts.					
After the completion of course, the students will have ability to: CO1 Have sound knowledge regarding the classification and elements of maps	Carres Ortage									
CO1			the students will have ability to:							
CO2 Have proper utilization of maps for the development K1			•			K'				
CO3										
To understand real world mapping practical knowledge. K3		_								
COS Practical knowledge very use full to simple and bar diagrams. K2			1 1							
Cunit-I Map Projections 15 hours										
Unit-I Map Projections						- 114				
Map Projections: types - Construction, Properties and uses of Conical Projection - One and Two standard Parallel - Bonne's and Polyconic Projection. Construction, properties and uses of Cylindrical Projection - Equi-distant and equal area Projection. Unit-III Properties and uses of Zenithal Projection - Equal area, Gnomonic, Stereographic and Orthographic (Polar cases only) Unit-III Drawing of Graphs		, 111	1,77,7,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,							
Map Projections: types - Construction, Properties and uses of Conical Projection - One and Two standard Parallel - Bonne's and Polyconic Projection. Construction, properties and uses of Cylindrical Projection - Equi-distant and equal area Projection. Unit- III	Unit- I		Map Projections		15	hou	ırs			
standard Parallel — Bonne's and Polyconic Projection. Construction, properties and uses of Cylindrical Projection — Equi-distant and equal area Projection. Unit- II	Map Projection	is: types - Cor		on – (One a	nd '	Γwo			
Unit- II Properties and uses of Zenithal Projection — Equal area, Gnomonic, Stereographic and Orthographic (Polar cases only) Unit- III Drawing of Graphs 18 hours Drawing of Graphs: Line graph: Simple and Multiple — Frequency Curve — Histogram — Lorenz Curve. Unit- IV Diagrams 18 hours Diagrams: Bar diagrams - Simple and Compound — Circle and Sector — Isopleths and Choropleth - Flow Maps. Unit- V Record 18 hours Record — 20 Marks Total lecture hours 90 Text Books: 1 Monkhouse, F.J. and Wilkinson, H.R., (1989), Maps and Diagrams, B.I.Publications, New Delhi. 2 SethuRakkayi, S., (2014). Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, Madurai. Books For Reference: 1 Pijushkanti Saha and Partha Basu, (2010). Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata. 2 Singh, R. L., (2005). Elements of Practical Geography, Vikas Publishing House Pvt. Ltd., Gopal singh, (1996). Map work and practical geography, Vikas Publishing House Pvt. Ltd., Julfequar Ahmad Khan, M. D., (1998). Text Book of Practical Geography, Concept Publishing										
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Drawing of Graphs: Line graph: Simple and Multiple – Frequency Curve – Histogram – Lorenz Curve. Unit- IV	(Polar cases onl	y)								
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 Text Books: Monkhouse, F.J. and Wilkinson, H.R., (1989), Maps and Diagrams, B.I.Publications, New Delhi. SethuRakkayi, S., (2014). Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, Madurai. Books For Reference: Pijushkanti Saha and Partha Basu, (2010). Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata. Singh, R. L., (2005). Elements of Practical Geography, Kalyani Publishers, New Delhi. Gopal singh, (1996). Map work and practical geography, Vikas Publishing House Pvt. Ltd., Zulfequar Ahmad Khan, M. D., (1998). Text Book of Practical Geography, Concept Publishing 	Record 20 Mil	uks	Total lecture	ากมาร		90				
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 SethuRakkayi, S., (2014). Puvippadaviyaloor arimugam, Sree Meenakshi Offsets, Madurai. Books For Reference: Pijushkanti Saha and Partha Basu, (2010). Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata. Singh, R. L., (2005). Elements of Practical Geography, Kalyani Publishers, New Delhi. Gopal singh, (1996). Map work and practical geography, Vikas Publishing House Pvt. Ltd., Zulfequar Ahmad Khan, M. D., (1998). Text Book of Practical Geography, Concept Publishing 		se. F.L. and Will	kinson, H.R. (1989). Mans and Diagrams, B.I.Publica	ntions	New	Delh	ni.			
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 Ltd, Kolkata. Singh, R. L., (2005). Elements of Practical Geography, Kalyani Publishers, New Delhi. Gopal singh, (1996). Map work and practical geography, Vikas Publishing House Pvt. Ltd., Zulfequar Ahmad Khan, M. D., (1998). Text Book of Practical Geography, Concept Publishing 			ha Basu, (2010). Advanced Practical Geography. Boo	ks and	Allie	ed (P	<u>')</u>			
 Singh, R. L., (2005). Elements of Practical Geography, Kalyani Publishers, New Delhi. Gopal singh, (1996). Map work and practical geography, Vikas Publishing House Pvt. Ltd., Zulfequar Ahmad Khan, M. D., (1998). Text Book of Practical Geography, Concept Publishing 			na Basa, (2010). Havaneed Haenear Geography, Boo	no une		<i>(</i> 1	,			
Gopal singh, (1996). Map work and practical geography, Vikas Publishing House Pvt. Ltd., Zulfequar Ahmad Khan, M. D., (1998). Text Book of Practical Geography, Concept Publishing			nents of Practical Geography, Kalvani Publishers. Ne	w Delh	i.					
3 Zulfequar Ahmad Khan, M. D., (1998). Text Book of Practical Geography, Concept Publishing										
					ublis					

Rela	ated 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 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	JeL.	S	S	S	S	M	



~ '	rse code 4ZB	BASICS OF GIS AND GPS	L	T	P	C			
Core/	Elective/ Supportive	Skill Based	3	0	0	3			
Pre-re	equisite	Basic Knowledge in computer	Sylla		s 2021-				
			vers	ion	20	22			
	se Objectives:								
	· · · · · · · · · · · · · · · · · · ·	ecision making and planning.							
To Pro	ovide efficient means for da	ata distribution and handling.							
	se Outcomes:								
		he students will have ability to:			K2				
CO1 Understand various components and principles of GIS CO2 Construct the thematic maps using different digital layers									
CO2 Construct the thematic maps using different digital layers CO3 Apply GIS in various geographical studies									
CO3		lerstand of GIS for the construction of maps and t	heir 110	SA.	K3				
CO4	the development planning	-	nen u		K3	;			
CO5		GPS for the accurate location			K2				
		d; K3 - Apply; K4 - Analyze; K5 - Evaluate;							
Unit-	·I	GIS: Definition		11	hou	rs			
GIS: I	Definition - Sco <mark>pe and De</mark> v	elopment - Components – GIS and Geography.							
		Alternative State of the state							
Unit-		GIS Data		11	11 hours				
GIS D	ata: Spatial and <mark>Non–Spa</mark> ti	al -Sources of Data – Data Structure: Raster and Ve	ctor.						
Unit-		Functions and Organizational Aspects			hou				
		spects: RDBMS – GIS software- Geo-referencing—Dring – Map design and layout.	ngitiza	tion-	Eaiti	ıng-			
Data S	Storage – Aliarysis – Burrer	ing – Map design and fayout.							
Unit-	IV	Applications of GIS		11	hou	rs			
		e – Environment – Urban and Disaster	1		nou	10			
1-66-1	(%)	Compension							
Unit-	V	GPS		10	hou	rs			
GPS: S	Segments - Errors – Measu	rement - Uses and Applications.							
		EDUCATE TO ELEVATE Total lecture h	ours		54				
	Books:								
	•	ntroduction to Geographical Information System, Pe	arson	Educa	ation				
	Pvt. Ltd., New Delhi.								
		el, A. and McDonnell, (1998), Principles of Geograp	hical I	ntorn	natio	n			
	Systems, Oxford University	·	T+- C =	m 64'	••				
		ing, (2007), Concepts and Techniques of Geographic	inior	matio	11				
	Systems, Prentice-Hall of		Dublica	tions					
	j - 1 1 2 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
4	= -								
4	Hyderabad.								
4	Hyderabad.								
4 Books	Hyderabad. For Reference:	Introduction to Geographic Information systems Ta	uta Mc	Graw	–Hil	 1			
Books 1	Hyderabad. For Reference:	Introduction to Geographic Information systems, Tated, New Delhi.	nta Mc	Graw	–Hil	1			

Chang, Kang-tsung (2002), Introduction to Geographic Information Systems, Tata McGraw Hills Publishing Company Ltd, New Delhi.

Siddique, M.A. (2006), Introduction to Geographical Information Systems, Sharda Pustak Bhawan, Allahabad.

Related Online Contents:

https://en.wikipedia.org/wiki/Geographic_information_system

https://en.wikipedia.org/wiki/Global_Positioning_System

Course 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	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				
Pre-requisite		Basic knowledge of Atlas Reading	Sylla vers				
Course Object	ives:	1			ı		
		are to give an overview of the land, natural vegetation an , so that the students are aware of world resources.	id eco	nomy	of t	he	
Caura Outaar	m o.g.	NEEDO					
A fter the compl		e, the students will have ability to:					
		ent geographical natural region form the world			K2)	
		0 0 1			K1		
		l region natural life and economic level.					
		region natural life and economic level.			K3		
		on variation of natural resource and climatic conditions.			K3		
		and the climate and animal life.			K2	<u>.</u>	
KI - Remembe	r; K2 - Unders	stand; K3 - Apply; K4 - Analyze; K5 - Evaluate;					
X 4	B						
Unit- I		Region: Definition			hou		
Region: Defini	tion – Method	ds of delineation of regions – Formal and functional r	egion	s –Ec	quato	orial	
Regions: Situat	ion – Climate	<mark>- N</mark> at <mark>ural vegetation – Natural resource</mark> s <mark>and Ec</mark> onomic d	levelo	pmen	ıt.		
		2 Carlo					
Unit- II		Tropical Regions			hou		
Tropical Region and Economic of		Climate - Monsoon – Natural vegetation- Animal life	- Nat	ural r	esou	rces	
	90	AR UN		ı			
Unit- III	20	Warm Temperate Regions			hou		
Warm Tempera		Warm Temperate Regions Mediterranean: China and steppe: Situation - Climate - I es and Economic development.	Natur				
Warm Tempera Animal life – N		Mediterranean: China and steppe: Situation - Climate — I es and Economic development.	Natur	al veg	getat	ion-	
Warm Tempera Animal life – N	atural resource	Mediterranean: China and steppe: Situation - Climate - I es and Economic development. Cool Temperate Regions		al veg	getat hou	ion-	
Warm Tempera Animal life – N Unit- IV Cool Temperate	atural resource Regions: We	Mediterranean: China and steppe: Situation - Climate — Les and Economic development.		al veg	getat hou	ion-	
Warm Tempera Animal life – N Unit- IV Cool Temperate	atural resource Regions: We	Mediterranean: China and steppe: Situation - Climate — I es and Economic development. Cool Temperate Regions est European, Prairie: Situation - Climate — Natural vege		22 1- An	getat hou	rs life	
Warm Tempera Animal life – N Unit- IV Cool Temperate – Natural resou Unit- V Cool Temperate	e Regions: We rees and Econ	Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Polar Regions est: Tundra: Situation - Climate – Natural vegetation - Ar	etation	22 1- An	hou imal	rs life	
Warm Tempera Animal life – N Unit- IV Cool Temperate – Natural resour	e Regions: We rees and Econ	Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Polar Regions est: Tundra: Situation - Climate – Natural vegetation - Ar	etation	22 1- An	hou imal	rs life	
Warm Tempera Animal life – N Unit- IV Cool Temperate – Natural resou Unit- V Cool Temperate	e Regions: We rees and Econ	Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Polar Regions est: Tundra: Situation - Climate – Natural vegetation - Ar	etation	22 n- And 20 life –	hou imal	rs life	
Warm Tempera Animal life – N Unit- IV Cool Temperate – Natural resou Unit- V Cool Temperate resources and E	e Regions: We rees and Econ	Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Polar Regions as: Tundra: Situation - Climate – Natural vegetation - Ar lopment.	etation	22 n- And 20 life –	hou imal hou Nat	rs life	
Warm Tempera Animal life – N Unit- IV Cool Temperate – Natural resou Unit- V Cool Temperate resources and E	e Regions: We rees and Econ-	Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Polar Regions as: Tundra: Situation - Climate – Natural vegetation - Ar lopment. Total lecture he	etation	22 n- And 20 life –	hou imal hou Nat	rs life	
Warm Tempera Animal life – N Unit- IV Cool Temperate – Natural resou Unit- V Cool Temperate resources and E	e Regions: We rees and Economic deve	Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Regions est European, Prairie: Situation - Climate – Natural vege omic development. Cool Temperate Polar Regions as: Tundra: Situation - Climate – Natural vegetation - Ar lopment.	nimal	22 n- Ann 20 life –	hou imal hou Nat	rs life	

Book	ss 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	rse 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	



	53B	GEOGRAPHY OF TAMILNADU L	T	P	C
Core/ Elective/S	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 Objecti	ves:			ı	
To understand a	bout the location	on, physiogr <mark>aphy and climate of Tamil</mark> Nadu			
To learn about a	igricultural, mii	nerals, industrial and human resources of Tamil Nadu.			
		128			
Course Outcon		the standards will have billian to			
		the students will have ability to:		K	<u> </u>
		features and distribution. actices of commercial and plantation crops.		K	
		source and deposition of region.		K.	
		es and distribution.		K.	
		pes and population variation in district level.		K	
		and; K3 - Apply; K4 - Analyze; K5 - Evaluate;		11.	_
	, === 0 1140130	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1			
Unit- I		Location and extent	22	hou	rc
	tent-Physical d	ivisions–Climate–Rivers-Soils and Natural vegetations.		1100	13
<u> </u>	conc raystear c	Committee of the control of the cont			
Unit- II	9	Agriculture and Irrigation	22	hou	rs
Agriculture and	Irrigation: Typ	oes and distribution – Problems – Major crops: Paddy, Suga	arcane	e, Co	tto
		ps: Tea, Coffee and Rubber.			
	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Colmbatore			
Unit- III		Minerals and Power Resources		hou	
Minerals and Po		s: Coal, Iron ore, Petroleum, Atomic and Thermal power -			
Minerals and Po					
Minerals and Po Projects – Non-o		s: Coal, Iron ore, Petroleum, Atomic and Thermal power - ergy sources: Solar and Wind energy.	Majo	or H	yda
Minerals and Po Projects – Non-o	conventional er	s: Coal, Iron ore, Petroleum, Atomic and Thermal power - ergy sources: Solar and Wind energy. Industries	Majo		yda
Minerals and Po Projects – Non-o	conventional er	s: Coal, Iron ore, Petroleum, Atomic and Thermal power - ergy sources: Solar and Wind energy.	Majo	or H	yda
Minerals and Po Projects – Non-o Unit- IV Industries: Cotto	conventional er	S: Coal, Iron ore, Petroleum, Atomic and Thermal power - lergy sources: Solar and Wind energy. Industries ment – Sugarcane – Chemical - Paper and Automobiles.	Majo	hou	yda i rs
Minerals and Po Projects – Non-o Unit- IV Industries: Cotto Unit- V	conventional er	S: Coal, Iron ore, Petroleum, Atomic and Thermal power - lergy sources: Solar and Wind energy. Industries ment – Sugarcane – Chemical - Paper and Automobiles. Population	20	hou	yda rs
Minerals and Porojects – Non-o Unit- IV Industries: Cotto Unit- V Population, Trans	on textiles – Ce	S: Coal, Iron ore, Petroleum, Atomic and Thermal power - lergy sources: Solar and Wind energy. Industries ment – Sugarcane – Chemical - Paper and Automobiles. Population de: Population Growth and Distribution – Rural and Urban	20	hou	yda rs
Minerals and Poprojects – Non-o Unit- IV Industries: Cotto Unit- V Population, Train	on textiles – Ce	S: Coal, Iron ore, Petroleum, Atomic and Thermal power - lergy sources: Solar and Wind energy. Industries ment – Sugarcane – Chemical - Paper and Automobiles. Population	20	hou	yda rs
Minerals and Poprojects – Non-o Unit- IV Industries: Cotto Unit- V Population, Train	on textiles – Ce	S: Coal, Iron ore, Petroleum, Atomic and Thermal power - lergy sources: Solar and Wind energy. Industries ment – Sugarcane – Chemical - Paper and Automobiles. Population de: Population Growth and Distribution – Rural and Urban	20	hou	yda irs
Minerals and Porojects – Non-order IV Unit- IV Industries: Cotto Unit- V Population, Transport: types Text Books:	on textiles – Censport and Transport and Tra	Industries ment – Sugarcane – Chemical - Paper and Automobiles. Population de: Population Growth and Distribution – Rural and Urbanways, Railways and Airways – Trade. Total lecture hours	20 22 Popu	hou latio	urs urs
Minerals and Porojects – Non-order IV Unit- IV Industries: Cotto Unit- V Population, Transport: types Text Books:	on textiles – Censport and Transport and Tra	Industries ment – Sugarcane – Chemical - Paper and Automobiles. Population de: Population Growth and Distribution – Rural and Urbanways, Railways and Airways – Trade.	20 22 Popu	hou latio	urs urs
Minerals and Porojects – Non-order IV Unit- IV Industries: Cotto Unit- V Population, Transport: types Text Books: 1 Kumarasw	on textiles – Censport and Trace – Major Road	Industries ment – Sugarcane – Chemical - Paper and Automobiles. Population de: Population Growth and Distribution – Rural and Urbanways, Railways and Airways – Trade. Total lecture hours	20 22 Popu	hou latio	urs urs

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	ted 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	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	M	S	S	M	S			
CO5	S	S	S	S	L	S	S	S	S	S			

Course code	53C	GEOGRAPHY OF RESOURCES - I	L	T	P	С		
Core/ Elective/	/Supportive	Core	6	0	0	4		
Pre-requisite		Basic knowledge in Atlas Reading	Syllal			21-		
			versi	on	20)22		
Course Object								
		pproaches of natural resource management;						
To examine use	e of various res	sources and to analyze future prospects,						
Course Outcor	mos•							
		e, the students will have ability to:						
		wledge of resource and environmental issues.			K	<u> </u>		
Demons			play	in				
	ng resource,	environmental degradation and improving			\mathbf{K}^{1}	L		
environ	mental manage							
CO3 Evaluate	e the res <mark>ource</mark>	and conservation.			K3	3		
CO4 Underst	and frost <mark>reso</mark> t	arce importance and conservation methods.			K3	}		
		Iture resource and crop types.			K2	2		
K1 - Remembe	r; K2 - Unders	stand; K3 - Apply; K4 - Analyze; K5 - Evaluate;						
	GA							
Unit- I	26	Geography of Resources			hou			
		efinition, Scope and Content – Classifications – Cl	haracteri	stic a	and t	heir		
distribution – U	Itilization and	Conservation of Resources.						
** ** **		Just Book or year.			_			
Unit- II	Essentian C	Soil resources	Cail and		hou			
Conservation.	Formation - S	oil Profile –Classification and distribution - Fertility,	, Son erc	SIOII	and	5011		
Conservation.	9							
Unit- III	C#	Forest Resources	/	22	hou	rc		
	es: Equatorial	- Tropical - Temperate and Polar - Distribution and	Econom					
- Forest Produc		Colimberore	Leonom		port	ince		
		SA S						
Unit- IV		Animal Resources		20	hou	rs		
Animal Resour	ces: Livestock	- Cattle - Types - Pigs and Poultry - Growth and di	istributio	n - E	cono	mic		
Importance.		COCATE TO ELEVA						
Unit- V		Agricultural Resources			hou			
-		ors Influencing Agriculture - World Agricultural	Гуреs -	Geog	graph	ical		
distribution of I	Rice, Wheat, C	Cotton and Sugarcane, Tea and Coffee.						
<u> </u>		m 4 11 4	,		100			
		Total lecture	e nours		108			
Toyt Dool-								
Text Books:	thom (2012) (Geography of resources: Exploration, Conservation an	d Mana	tomes	nt			
		U 1 •	iu iviällä	gemei	11,			
Sharda Pustak Bhavan, New Delhi. 2 Goh Cheng Leong (1987), Human & Economic Geography, Oxford University Press, New York.								
2 Gon Chei	Leong (170	, ,, riaman & Leononne Geography, Oxford Universit	1 1 1 1 1 1 2 3 3 ,	1 10 W	1 011	··		

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 v	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	S	S	S	S	S	S		

Course code	53D	REMOTE SENSING AND ITS	L	T	P	C		
Cara/Elastina	/C	APPLICATIONS IN GEOGRAPHY	5	0	Λ	4		
Core/ Elective	Supportive	Core Pagia knowledge in satellite system		0 bys	0	4)21-		
Pre-requisite		Basic knowledge in satellite system	Sylla vers)21-)22		
Course Object	ivos•		VELS	1011	20)44		
		ry and types of remote sensing.						
		te remote sensing and recent developments.						
10 Ootam aooa	t derial, satelli	te remote sensing and recent developments.						
Course Outco	mes:							
		e, the students will have ability to:						
Δnnrec		pment and u <mark>ses of aerial an</mark> d satellite remote sensing sy	stem		K			
and navigation satellite systems in India and other nations;								
Underet		of EMR and energy interaction in atmosphere and on e	earth					
	features;	0. <u>2.</u> 3. 4. 4. 4. 4. 5. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.			K1	l		
		e types and functions			K3	3		
		ellite remote sensing development and achievement.			K3			
		e sensing application and its uses.			K			
		stand; K3 - Apply; K4 - Analyze; K5 - Evaluate;		<u> </u>				
	,							
Unit- I	79)	Remote Sensing		18	hou	ırs		
Remote Sensir	g: Definition	- Content - Development - Types - Basic Principle	es - Ele	- 45				
		s – Ideal Remote Sensing System.			8			
	8,7	Leave Land Villa		7				
Unit- II		Aerial Remote Sensing		18	hou	irs		
Aerial Remote	Sensing: Air	photo - Camera - Film - Scale - Stereoscopic visio	n – Ele					
photo interpreta								
	%		7 7					
Unit- III	9	Satellite Remote Sensing		18	hou	ırs		
Satellite Remo	te Sensing: Sat	tellites - Types - Orbit - Resolution - Sensors - Resol	ution (harac	cteris	stics		
of LANDSAT,								
		S						
Unit- IV		Remote Sensing in India		18	hou	ırs		
Remote Sensir	g in India: IS	SRO - NRSC - IRS Satellites: Sensors - Resolution	and A	Applic	catio	ns -		
Recent Develop	pments.	SOCATE TO ELEVAN						
Unit- V		Applications in Geography		18	hou	ırs		
Applications in	Geography: V	Vater Resources – Forest – Land use - Agriculture – M	Iineral	Explo	oratio	on –		
Urban Studies	and Planning.							
		Total lecture	hours		90			
Text Books:								
1 Lillesand	, T.M. and Ral	ph W. Keifer (2002), Remote Sensing and Image Interp	retatio	n, Joh	ın			
	Sons, Inc., Nev							
2 Sabins, Jr	: (1978), Remo	ote Sensing: Principles and Interpretation, Freeman and	Co, Sa	ın Fra	ncis	co.		
		nciples of Remote sensing, English Language book soc						
		neipies of fremote sensing, English Eunguage cook soc	100, 20					
London.								

Bool	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										

(Course	Designed	. By: I	Dr. I	<u>).Y</u>	uvaraj

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	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	M	S	S		



Course code	5EA	URBAN GEOGRAPHY	L	T	P	C					
Core/ Elective/	/ Supportive	Elective	4	0	0	4					
Pre-requisite		Basic knowledge of Urban Environment	Sylla vers)21-)22					
Course Object											
		Development of Urban Geography.									
To familiarize a	about Urbaniza	tion, Urban morphology, Urban theories and problems	S								
Course Outcor	mes:										
		e, the students will have ability to:									
		nentals and patterns of urbanization process			K	2					
CO2 Learn th	ne functional cl	assification of cities and Central Place Theory			K	1					
CO3 Know c	ontemporary p	roblems of pollution, crime, poverty, and slum.			K.	3					
CO4 Study of urban morphology and urban functions with special reference to selected towns need to be encouraged.											
		tion form the world.			K	2					
K1 - Remembe	r; K2 - Unders	tand; K3 - Apply; K4 - Analyz <mark>e; K5 - Evalu</mark> ate;									
Unit- I	-s	Urban Geography		16	hou	ırs					
		ope and Development – Origin an <mark>d Ev</mark> ol <mark>ution of T</mark> owr									
- Urbanization:	Fac <mark>tors of Ur</mark> b	an Growt <mark>h – W</mark> orld urbanization – <mark>Trends of Urba</mark> niza	ation in	India	١.						
	E			4							
Unit- II		Urban Morphology	1		hou						
	logy: Functiona	<mark>al Classification of Towns - Urban L</mark> an <mark>duse –</mark> CBD ar	nd its ch	aract	erist	ics -					
Primate City.				_							
Unit- III		Theories and Models		1.4	hou						
	Models: Classi	cal: Burgess, Homer Hoyt, Harris and Ullman C	ontrol l								
Christaller and			entrar i	Tace	1110	ory.					
Christaner and	Losen Kank	Size Ruic.									
Unit- IV	010	U <mark>rban Expansi</mark> on		14	hou						
	on: Vertical an	d Horizontal – Urban Sprawl – Rural-Urban Fringe	– Subu								
		gion – Umland.	2000		2000						
		EDUO:									
Unit- V		Urban Problems		14	hou	ırs					
Urban Problem	s: Slums – Pov	verty – Crime – Pollution - Water Supply and Transpo	ort - Ur	ban F	lann	ing:					
Policies – Town											
		Total lecture	hours		72						
Text Books:											
		oan Geography: A Text Book; Concept Publishing Co.									
	handran (1989), Urbanization and Urban Systems in India, Oxford U	niversi	ty Pre	ss,						
Delhi.											
		Iuman Geography, Rawat Publications, Jaipur.									
	a K, (2013), Ci	ties, Urbanisation and Urban Systems, Kisalaya public	cation F	vt. L	td N	ew					
Delhi.											

Books 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.

Related 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

Course Designed By: M. Panneer selvam

Mapping	with Pr	ogram <mark>Ou</mark>	tcomes				0			
COs	PO1	PO ₂	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	E	S	M	S	S	M
CO4	M	S	S	M	S	S	S	S	M	S
CO5	S	S	S	S	S	S	S	S	S	L

Cour	se code	5EB	NATURAL DISASTERS AND	L	T	P	С
			MANAGEMENT				
Core/	Elective	Supportive	Skill Based	3	0	0	3
	equisite		Basic knowledge of risk of disaster	Sylla	bus	20	21-
	_		<u>-</u>	vers	ion	20)22
Cours	se Object	ives:					
To uno	derstand a	about the Natu	ral Disasters its Causes and Consequences				
To lea	ırn about l	Disaster Mana	gement and Mitigation.				
Cours	se Outcor	nes:					
After t			e, the student <mark>s will have abili</mark> ty to:				
CO1	Underst	and processes	and impact of disaster.			K	2
CO2	Underst	and both the <mark>n</mark>	<mark>atural an</mark> d man-made disaster and human negligence in	contex	ĸt	K	1
CO2	of envir					N.	L
CO3	Write a	field work <mark>bas</mark>	ed report on Disaster Management to minimize the dis	aster		K3	2
<u>CO3</u>	risk.	73				17.	,
CO4			he disaster mitigation and management.			K3	
CO5			man induce disaster.			K	2
K1 - F	Remembe	r; K2 <mark>- U</mark> nders	stand; K3 - Apply; K4 - Analyze; K5 - Evaluate;				
		, P.	A Time and the State of the Sta	- N			
Unit-	100.		Disasters: Meaning and Classification		-	hou	
Disast	ers: Mear	ning a <mark>nd Class</mark>	<mark>ifi</mark> cation – Conc <mark>epts</mark> – Risk a <mark>nd Vulnera</mark> bil <mark>ity – Disa</mark> ste	er Zone	s of I	ndia.	·
			10 1. 1.00 10111				
Unit-			Geological Disasters			hou	
			j <mark>uakes: Intensity and Magnitude - Earthquak</mark> e Pron	e Zone	es - V	Volc	anic
eruption	on - Land	slides and <mark>Tsu</mark>	nami.				
					1 40		
Unit-		90	Climatic Disasters	7	10	hou	irs
Clima	tic Disast	ers: Cyclones	– Flo <mark>ods – Drought – Avalanche</mark> and Frost.				
TT 0.	***		Some the				
Unit-		1 D:	Human induced Disasters	<u> </u>		hou ·	
			uclear and Chemical – Health hazards - Forest fire	- Globa	al Wa	rmır	ıg –
Defore	estation a	na Grounawat	er Depletion.				
Unit-	X 7		Disease Management		11	1	
		Disast	Disaster Management	- 1 C4	1	hou	
	_	•	ter Management Organizations: International – Nation				
			Cycle – Preparatory phase – Emergency phase - igation and Management.	Kena	omiai	1011	and
Recon	istruction	FIOCESS – MIL	igation and Management.				
			Total lecture	hours		54	
			1 otal lecture	nours	<u> </u>	J 4	
Tovi I	Books:						
1 ext 1		GK (2008) F	Disaster Management, A.P.H. Publishing Corporation, N	Jew D	lhi		
2	Saxena	, H.M. (1996)	, Natural Disasters, Wm. C. Brown Publishing Co., Ne	w York	ζ.		

Books	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 Pro	ogram Ou	tcomes	400	馬馬	000				
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	AL S	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	C
Core/ Elective	/ Supportive	Core	6	0	0	4
Pre-requisite		Basic knowledge of Atlas Reading	Sylla versi)21-)22
Course Object						
		ecourse, Types, Distribution and its Conservation				
To learn about	Agricultural, M	inerals, Industrial Resources and Transport System.				
C O-4						
After the comp		the students will have ability to:				
make th		the importance of conservation of minerals and energy				
CO1 resource		the importance of conservation of innertals and energy	,		\mathbf{K}^{\prime}	2
		ource development understand.			K	1
		ance of mineral and power resource need for future plar	nning.	,	K.	3
		industrial resource.			K.	3
CO5 Unders	tand world <mark>trade</mark>	and transportation importance.			K	2
K1 - Remembe	er; K2 - Underst	and; K3 - Apply; K4 - Analyze; K5 - Evaluate;				
,	GS.					
Unit- I		Fisheries		- 4	hou	
		ntrolling <mark>factors</mark> of growth <mark>and distribu</mark> tio <mark>n – Majo</mark> r fisl	hing (Grour	id of	the
World – Need	for Co <mark>nservatio</mark>	1.				
Unit- II		Human Resources		22	hou	
	ces: Distribution	1 - Modern Demographic Pattern – Trends of World Po	onulat			
		Optimum, Over and Under Population.	Spurat	1011	DCI	isity
or r operation	2	Springer, ever und ender reputation	7 1			
Unit- III	9	Mineral and Power Resources		22	hou	rs
Mineral and Po	ower Resources:	Types – Significances - Distribution and Production of	f Iron	ore,	Bau	xite,
Copper, Manga	anese, Tin and M	Iica – Coal, P <mark>etroleum, Natur</mark> al Gas and Atomic power.	•			
		33				
Unit- IV		Industrial Resources			hou	
		al factors - Distribution of Cotton Textile, Iron and Ste	eel – S	Ship 1	Buil	ding
– Aircraft – Au	itomobile – Cen	ent and Chemical industries.				
Unit- V		Transportation and Trade		22	hou	
	and Trade: Ty	pes of Transportation – Land, Water and Air – Land	l. Pos			
-	•	Air: Domestic and International - Trade: Types				
		alance of Trade, Recent Trends and Trade Organizations		mpos	11101	. 01
	,	,				
		Total lecture ho	ours		108	
Text Books:						
	a Gautham (201	3), Geography of resources: Exploration, Conservation	and N	Manas	geme	ent.
	rda Pustak Bhav			- 7		,

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/B <mark>A/Geo_of_Reso</mark> rce.pdf
	00000000000000000000000000000000000000
Course	Designed By: S. Ra <mark>vichandi</mark> ran

Mapping	with Pro	ogram Ou	tcomes					A		
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	S	S	M	S
CO5	S	S	S	S	S	S	S	S	S	S

	63B	ENVIRONMENTAL STUDIES AND L MANAGEMENT	T	P	C
Core/ Elective/	Supportive	Core 6	0	0	3
Pre-requisite		Basic knowledge in Environmental problem Sylla vers			
Course Objecti					
problems and	which has th	on that is aware of and concerned about the environment and e knowledge, Skills, attitudes, motivations and commitmowards solutions of current problems and prevention.			
Course Outcon	nes:				
After the comple	etion of cours	e, the students will have ability to:			
		nic interactive relationship between man and environment.		K	2
resource	s at glob <mark>al lev</mark>			K	
		pects of flora and fauna provinces.		K.	
		ics of climate and related theories.		K.	
		tion as an index of climate. stand; K3 - Apply; K4 - Analyze; K5 - Evaluate;		K	<u> </u>
IXI - Kememoer	, IXZ - Oliders	stand, ix3 - Appry, ix4 - Amaryze, ix3 - Evaluate,			
Unit- I		Environment	22	hou	rc
Unit- II Ecosystem: Mea	aning – Types	Ecosystem - Components - Functioning of Ecosystems - Food chain and		hou d we	
	ining Types	Components Tunctioning of Leosystems Tood chair and	u 1 00		eb.
Unit- III	ining Types	Natural Hazards	ı	hou	
Natural Hazards	s: Meaning an		22 Enviro	nme	ırs
Natural Hazards Deforestation - S	s: Meaning an	Natural Hazards Ind Types - Environmental Degradation - Human Impact on E - Land Slides - Desertification – Global Warming and Climatic	22 Enviro	nme nge.	nt -
Natural Hazards Deforestation - S Unit- IV Man includes H	s: Meaning an Soil Erosion – Hazards: Pollu	Natural Hazards ad Types - Environmental Degradation - Human Impact on E	22 Environce Cha	nme nge.	nt -
Natural Hazards Deforestation - S Unit- IV Man includes H	s: Meaning an Soil Erosion – Hazards: Pollu	Natural Hazards ad Types - Environmental Degradation - Human Impact on E - Land Slides - Desertification – Global Warming and Climatic Man includes Hazards attion: Meaning and types - Land, Water and Air – Waste	22 Enviro c Cha 22 Mana	nme nge.	nt -
Natural Hazards Deforestation - S Unit- IV Man includes H Urban wastes - Unit- V Environmental	s: Meaning an Soil Erosion – Hazards: Pollu Industrial was	Natural Hazards ad Types - Environmental Degradation - Human Impact on Electron - Global Warming and Climatic Man includes Hazards attion: Meaning and types - Land, Water and Air - Waste stes - Medical and Electronic wastes.	22 Enviro c Cha 22 Mana	hounge.	nt -
Natural Hazards Deforestation - S Unit- IV Man includes H Urban wastes - Unit- V Environmental	s: Meaning an Soil Erosion – Hazards: Pollu Industrial was	Natural Hazards and Types - Environmental Degradation - Human Impact on Environmental Degradation - Global Warming and Climatic Man includes Hazards artion: Meaning and types - Land, Water and Air - Waste stes - Medical and Electronic wastes. Environmental Impact Assessment Sement: Meaning and Concept - Case studies of Sardar Sarova	22 Enviro c Cha 22 Mana	hounge.	nt -
Natural Hazards Deforestation - S Unit- IV Man includes H Urban wastes – Unit- V Environmental I Tehri Dam - Ro	s: Meaning an Soil Erosion – Hazards: Pollu Industrial was	Natural Hazards ad Types - Environmental Degradation - Human Impact on Electronic States - Desertification - Global Warming and Climatic Man includes Hazards attion: Meaning and types - Land, Water and Air - Waste stes - Medical and Electronic wastes. Environmental Impact Assessment Sment: Meaning and Concept - Case studies of Sardar Sarovamental movements in Protecting our Environment.	22 Enviro c Cha 22 Mana	hounge. houngem	nt -
Natural Hazards Deforestation - S Unit- IV Man includes H Urban wastes - Unit- V Environmental I Tehri Dam - Ro	s: Meaning an Soil Erosion – Hazards: Pollu Industrial was Impact Assess le of Environr	Natural Hazards ad Types - Environmental Degradation - Human Impact on Electronic States - Desertification - Global Warming and Climatic Man includes Hazards attion: Meaning and types - Land, Water and Air - Waste stes - Medical and Electronic wastes. Environmental Impact Assessment Sment: Meaning and Concept - Case studies of Sardar Sarovamental movements in Protecting our Environment.	22 Enviro c Cha 22 Mana	hounge. houngem	nt -
Natural Hazards Deforestation - S Unit- IV Man includes H Urban wastes — Unit- V Environmental I Tehri Dam - Ro Text Books: 1 Odum .E.	s: Meaning and Soil Erosion – Hazards: Pollu Industrial was le of Environt P. (1971), Further P. (1971), Fur	Natural Hazards ad Types - Environmental Degradation - Human Impact on El-Land Slides - Desertification – Global Warming and Climatic Man includes Hazards ation: Meaning and types - Land, Water and Air – Waste stes – Medical and Electronic wastes. Environmental Impact Assessment sment: Meaning and Concept – Case studies of Sardar Sarovamental movements in Protecting our Environment. Total lecture hours	22 Enviro c Cha 22 Mana	hounge. houngem	nt -

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										

Course Designed By: M. Panneer selvam

Mapping	with Pro	ogram Ou	tcomes	300		Dan:				
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/ Elective/	Supportive	Core	0	0	5	4
Pre-requisite		Basic Knowledge of simple calculation techniques	Sylla vers			21-)22
Course Objecti	ves:					
	s to the studen	d uses of land and height measurement survey. ts to interpret and extract useful information from map ges.	s, topo	shtees	s, aer	ial
Course Outcon	nes:					
		e, the stude <mark>nts will have ab</mark> ility to:				
realities.		y <mark>ork for the collection of primary data</mark> to bring out gras			K	2
(() /	e of prope <mark>r too</mark> n and processi	ols and surveying methods for measurement in contexting of data.	of		K	1
	a report based				K	3
	ınd the a <mark>erial p</mark>	photograph interpretation and ground features detection	n for		K	:3
		ite imagery and marginal information.			K	2
		tand; K3 - Apply ; K4 - Analyze ; K5 - Evaluate ;		- 1		
1				4		
Unit- I		Survey			hou	rs
Survey: Chain: (Open and Clos	sed - Prismatic compass: Open and closed - Plane Table	e Surv	eying.		
	A CO					
Unit- II		Height Measurement and Levelling	Α.		hou	
Differences and		evelling: Indian Clinometer, Abney level and Durement.	mpy I	evel -	- Le	evel
** ** ***	3			10		
Unit- III	E1 (63	Aerial Photos	•		hou	
		Visual Interp <mark>retation - Ma</mark> rginal information – stered graphs (Physical and Cultural) .	oscopio	C V1S10	on I	est-
Unit- IV		Satellite Images		10	hou	
	· Marginal info	ormation - Interpretation of Satellite Images (Physical	and Cr			18
Saterite images	. Marginar iiii	ormation - interpretation of Sateritte images (1 hysicar	and Ct	iiturai,).	
Unit- V	2.1	Field		18	hou	rs
Field trip - Mini	mum 3 days 1	ehri Dam -				
		Total lecture	hours		90	
Text Books:						
1 Monkhou	se, F.J. and W	ilkinson, H.R., (1989), Maps and Diagrams, B.I.Public	ations	, New	Dell	ni.
Books For Refe	erence:					
1 Misra, R		nesh, A., (2002). Fundamentals of Cartography, C	Concep	t Pul	olicat	tion
		artha Basu, (2010), Advanced Practical Geography, I	1	1 4	11' 1	(D)

- 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.

Related Online Content:

- 1 https://pubs.usgs.gov/gip/AerialPhotos_SatImages/aerial.html
- 2 https://theconstructor.org/surveying/types-of-chains-surveying/13889/

Course 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	L	S	S	M	S	M		



Course code	6EA	POLITICAL GEOGRAPHY	L	T	P	C			
Core/ Elective	/Supportive	Elective	5	0	0	4			
Pre-requisite		Basic knowledge in India political system	-	abus sion	20 20	21- 22			
Course Object	tives:								
	-	d development Political Geography.							
To learn about	state, Capitals,	Elections and India's Foreign Policy.							
Course Outcom		4 4 4 4 911 199 4							
		e, the students will have ability to:			17.0				
CO1 Learn the concept of nation and state and geo-political theories. K2									
		nt dimensions of electoral geography and resource			K1				
	sage of politics ship with SAA	geography and integration of Indian states, India bi	iaterai		K 3	,			
	ince of politica				K3				
	l rule differ fro				K2				
		tand; K3 - Apply; K4 - Analyze; K5 - Evaluate;							
	,								
Unit- I	GA	Political Geography		18	hou	rs			
Political Geogr	aphy: Definiti	on, Scope, Content and Development – Geopolitic	s - State	: Cate	gorie	es			
Powers and Fur					_				
	TO CLOTED I (COLLO	is and ivationalism.							
		E CHONEN		M					
Unit- II		Core Areas			hou				
Core Areas: Ty	pes – Capit <mark>al</mark> s	Core Areas : Types - Morphological classification - Factors of	Develop						
Core Areas: Ty	pes – Capit <mark>al</mark> s	Core Areas	Develop						
Core Areas: Ty Capitals – New	pes – Capit <mark>al</mark> s	Core Areas Types - Morphological classification - Factors of apitals – Capitals in Post -1945 federations.	Develop	ment,	Fed	era			
Core Areas: Ty Capitals – New Unit- III	pes – Capitals and Neutral C	Core Areas Types - Morphological classification - Factors of apitals – Capitals in Post -1945 federations. Boundaries and Frontiers	5	ment,	Fedo hou	era rs			
Core Areas: Ty Capitals – New Unit- III Boundaries an	pes – Capitals and Neutral C	Core Areas Types - Morphological classification - Factors of apitals – Capitals in Post -1945 federations. Boundaries and Frontiers Definition – Classification: Genetic and Function	5	ment,	Fedo hou	era rs			
Core Areas: Ty Capitals – New Unit- III Boundaries an	pes – Capitals and Neutral C	Core Areas Types - Morphological classification - Factors of apitals – Capitals in Post -1945 federations. Boundaries and Frontiers	5	ment,	Fedo hou	era rs			
Core Areas: Ty Capitals – New Unit- III Boundaries an Classification (pes – Capitals and Neutral C	Core Areas Types - Morphological classification - Factors of apitals – Capitals in Post -1945 federations. Boundaries and Frontiers Definition – Classification: Genetic and Functional Land locked Countries) – Border Disputes.	5	18 Morph	hou olog	rs ica			
Core Areas: Ty Capitals – New Unit- III Boundaries an Classification (Unit- IV	opes – Capitals and Neutral Conditions of the Contiers: Buffer Zone –	Core Areas Types - Morphological classification - Factors of apitals – Capitals in Post -1945 federations. Boundaries and Frontiers Definition – Classification: Genetic and Functional Land locked Countries) – Border Disputes. Electoral Geography	onal - M	18 Morph	hou olog	rs ca			
Core Areas: Ty Capitals – New Unit- III Boundaries an Classification (Unit- IV Electoral Geog	pes – Capitals and Neutral C d Frontiers: Buffer Zone – graphy: Geogr	Core Areas Types - Morphological classification - Factors of apitals - Capitals in Post -1945 federations. Boundaries and Frontiers Definition - Classification: Genetic and Function Land locked Countries) - Border Disputes. Electoral Geography The phy of Elections - Election Campaigning - Volume 1998 (1998) - Election Campaigning - Election	onal - M	18 Morph	hou olog	rs ca			
Core Areas: Ty Capitals – New Unit- III Boundaries an Classification (Unit- IV Electoral Geog	pes – Capitals and Neutral C d Frontiers: Buffer Zone – graphy: Geogr	Core Areas Types - Morphological classification - Factors of apitals – Capitals in Post -1945 federations. Boundaries and Frontiers Definition – Classification: Genetic and Functional Land locked Countries) – Border Disputes. Electoral Geography	onal - M	18 Morph	hou olog	rs ca			
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Core Areas: Ty Capitals – New Unit- III Boundaries an Classification (Unit- IV Electoral Geog Participation – Unit- V Political Geogra	pes – Capitals and Neutral C d Frontiers: Buffer Zone – graphy: Geogr Gerry Mander	Core Areas Types - Morphological classification - Factors of apitals – Capitals in Post -1945 federations. Boundaries and Frontiers Definition – Classification: Genetic and Functional Land locked Countries) – Border Disputes. Electoral Geography Typhy of Elections – Election Campaigning - Vong – Election Commission. Political Geography of India Integration of Indian States: Integration of Sikken	onal - Matting Patt	18 Morph 18 ern -	hou olog	rs ca rs ers			
Core Areas: Ty Capitals – New Unit- III Boundaries an Classification (Unit- IV Electoral Geog Participation – Unit- V Political Geogra	pes – Capitals and Neutral C d Frontiers: Buffer Zone – graphy: Geogr Gerry Mander	Core Areas Types - Morphological classification - Factors of apitals – Capitals in Post -1945 federations. Boundaries and Frontiers Definition – Classification: Genetic and Functional Land locked Countries) – Border Disputes. Electoral Geography The phy of Elections – Election Campaigning - Volume – Election Commission. Political Geography of India Integration of Indian States: Integration of Sikkel Sri Lanka – SAARC Countries - India's Foreign Indian States.	onal - Matting Patt	18 Morph 18 ern -	hou blog Vote hou Bilate	rs ca rs ers			
Core Areas: Ty Capitals – New Unit- III Boundaries an Classification (Unit- IV Electoral Geog Participation – Unit- V Political Geogra	pes – Capitals and Neutral C d Frontiers: Buffer Zone – graphy: Geogr Gerry Mander	Core Areas Types - Morphological classification - Factors of apitals – Capitals in Post -1945 federations. Boundaries and Frontiers Definition – Classification: Genetic and Functional Land locked Countries) – Border Disputes. Electoral Geography The phy of Elections – Election Campaigning - Volume – Election Commission. Political Geography of India Integration of Indian States: Integration of Sikkel Sri Lanka – SAARC Countries - India's Foreign Indian States.	onal - Matting Patt	18 Morph 18 ern -	hou blog Vote hou Bilate	rs ca rs ers			
Core Areas: Ty Capitals – New Unit- III Boundaries an Classification (Unit- IV Electoral Geog Participation – Unit- V Political Geogn Relationship with	pes – Capitals and Neutral Cand Neutral Cand Neutral Cand Frontiers: Buffer Zone – Graphy: Geography: Geography: Geography of India ith Pakistan and R.D. (1982). P	Core Areas Types - Morphological classification - Factors of apitals – Capitals in Post -1945 federations. Boundaries and Frontiers Definition – Classification: Genetic and Functional Land locked Countries) – Border Disputes. Electoral Geography The phy of Elections – Election Campaigning - Volume – Election Commission. Political Geography of India Integration of Indian States: Integration of Sikkel Sri Lanka – SAARC Countries - India's Foreign Indian States.	onal - M ting Patte tim - Inc Policies. re hours	18 Morph 18 ern -	hou blog Vote hou 90	rs ca rs ers			
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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	rse Designed By: B. Sasikumar

Mapping	with Pro	ogram Ou	tcomes	50	3004)A:				
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	E	S	S	S	S	S



ASIA Pre-requisite Basic knowledge in Atlas reading Syllabus 202 version 202 202 version 202 version 202 version 202 202 version 202 202 version 202
Basic knowledge in Atlas reading Syllabus version 202 202 Course Objectives: To understand about the Extent and Physiography divisions in Mainland of south east Asia. To obtain about Climatic, Soils, Agriculture and Natural Vegetations of south east Asia. To obtain about Climatic, Soils, Agriculture and Natural Vegetations of south east Asia. Course Outcomes: After the completion of course, the students will have ability to: K2 CO2 Understand insular Southeast Asia geographical conditions. K1 K3 K1 K1 K2 CO3 Know about the higher-latitude zone of mainland Southeast Asia. K3 CO4 Understand the differences influence human settlement and economic development. K3 CO5 Describe the driving forces behind deforestation and habitat loss in the different regions of Southeast Asia. K2 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K2 Unit- I South East Asia: Location and Extent - Physiographic Divisions - Climate - Soils and Nature Vegetation. South East Asia: Location and Extent - Physiographic Divisions - Climate - Soils and Nature Vegetation. Is hour Myanmar: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Population, Transport and Trade. Is hour Malaysia and Singapore: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Population, Transport and Trade. Is hour Malaysia and Singapore: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Population, Transport and Trade. Is hour Malaysia and Singapore: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Population, Transport and Trade. Is hour Malaysia and Singapore: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Physiography - Climate - Drainage - Soils - Vegetation
To understand about the Extent and Physiography divisions in Mainland of south east Asia. To obtain about Climatic, Soils, Agriculture and Natural Vegetations of south east Asia. Course Outcomes: After the completion of course, the students will have ability to: CO1 Identify the key environmental differences between the equatorial belts. CO2 Understand insular Southeast Asia geographical conditions. K1 CO3 Know about the higher-latitude zone of mainland Southeast Asia. CO4 Understand the differences influence human settlement and economic development. K3 CO5 Describe the driving forces behind deforestation and habitat loss in the different regions of Southeast Asia. K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; Unit-I South East Asia 18 hour South East Asia: Location and Extent - Physiographic Divisions - Climate - Soils and Natur Vegetation. Unit-II Agriculture 18 hour Agriculture 5 Sugarcane Plantation crops: Tea, Coffee and Rubber. Unit-III Myanmar Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Population, Transport and Trade. Unit-IV Malaysia and Singapore 18 hour Malaysia and Singapore: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture -
Course Outcomes: After the completion of course, the students will have ability to: CO1 Identify the key environmental differences between the equatorial belts. CO2 Understand insular Southeast Asia geographical conditions. CO3 Know about the higher-latitude zone of mainland Southeast Asia. CO4 Understand the differences influence human settlement and economic development. K3 CO5 Describe the driving forces behind deforestation and habitat loss in the different regions of Southeast Asia. K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; Unit- I South East Asia: Location and Extent - Physiographic Divisions - Climate - Soils and Nature Vegetation. Unit- II Agriculture Agriculture: Food crops: Rice and Wheat - Commercial crops: Cotton, Jute and Plantation crops: Tea, Coffee and Rubber. Unit- II Myanmar Unit- III Myanmar Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Population, Transport and Trade. Unit- IV Malaysia and Singapore 18 hour Malaysia and Singapore: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture -
Course Outcomes: After the completion of course, the students will have ability to: CO1 Identify the key environmental differences between the equatorial belts. K2 CO2 Understand insular Southeast Asia geographical conditions. K3 CO3 Know about the higher-latitude zone of mainland Southeast Asia. CO4 Understand the differences influence human settlement and economic development. K3 CO5 Describe the driving forces behind deforestation and habitat loss in the different regions of Southeast Asia. K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; Unit- I South East Asia: Location and Extent - Physiographic Divisions - Climate - Soils and Nature Vegetation. Unit- II Agriculture I8 hour Agriculture: Food crops: Rice and Wheat - Commercial crops: Cotton, Jute and Sugarcane Plantation crops: Tea, Coffee and Rubber. Unit- III Myanmar Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Population, Transport and Trade. Unit- IV Malaysia and Singapore 18 hour Malaysia and Singapore: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture -
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CO1 Identify the key environmental differences between the equatorial belts. CO2 Understand insular Southeast Asia geographical conditions. K1 CO3 Know about the higher-latitude zone of mainland Southeast Asia. CO4 Understand the differences influence human settlement and economic development. CO5 Describe the driving forces behind deforestation and habitat loss in the different regions of Southeast Asia. K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; Unit- I South East Asia: Location and Extent - Physiographic Divisions - Climate - Soils and Nature Vegetation. Unit- II Agriculture 18 hour Agriculture: Food crops: Rice and Wheat - Commercial crops: Cotton, Jute and Plantation crops: Tea, Coffee and Rubber. Unit- III Myanmar Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Population, Transport and Trade. Unit- IV Malaysia and Singapore 18 hour Malaysia and Singapore: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture -
CO2 Understand insular Southeast Asia geographical conditions. K1 CO3 Know about the higher-latitude zone of mainland Southeast Asia. K3 CO4 Understand the differences influence human settlement and economic development. K3 CO5 Describe the driving forces behind deforestation and habitat loss in the different regions of Southeast Asia. K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; Unit- I South East Asia 18 hour South East Asia: Location and Extent - Physiographic Divisions - Climate - Soils and Nature Vegetation. Unit- II Agriculture Agriculture: Food crops: Rice and Wheat - Commercial crops: Cotton, Jute and Plantation crops: Tea, Coffee and Rubber. Unit- III Myanmar Myanmar: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Population, Transport and Trade. Unit- IV Malaysia and Singapore Nalaysia and Singapore: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture -
CO3 Know about the higher-latitude zone of mainland Southeast Asia. CO4 Understand the differences influence human settlement and economic development. CO5 Describe the driving forces behind deforestation and habitat loss in the different regions of Southeast Asia. K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; Unit- I South East Asia 18 hour South East Asia: Location and Extent - Physiographic Divisions - Climate - Soils and Nature Vegetation. Unit- II Agriculture 18 hour Agriculture: Food crops: Rice and Wheat - Commercial crops: Cotton, Jute and Plantation crops: Tea, Coffee and Rubber. Unit- III Myanmar 18 hour Myanmar: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Population, Transport and Trade. Unit- IV Malaysia and Singapore 18 hour Malaysia and Singapore: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture -
CO4 Understand the differences influence human settlement and economic development. CO5 Describe the driving forces behind deforestation and habitat loss in the different regions of Southeast Asia. K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; Unit- I South East Asia 18 hour South East Asia: Location and Extent - Physiographic Divisions - Climate - Soils and Nature Vegetation. Unit- II Agriculture 18 hour Agriculture: Food crops: Rice and Wheat - Commercial crops: Cotton, Jute and Sugarcane Plantation crops: Tea, Coffee and Rubber. Unit- III Myanmar 18 hour Myanmar: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture - Minerals Industries - Population, Transport and Trade. Unit- IV Malaysia and Singapore 18 hour Malaysia and Singapore: Physiography - Climate - Drainage - Soils - Vegetation - Agriculture -
Describe the driving forces behind deforestation and habitat loss in the different regions of Southeast Asia. K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;
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South East Asia: Location and Extent – Physiographic Divisions - Climate – Soils and Nature Vegetation. Unit-II
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Unit- II
Unit-II
Agriculture: Food crops: Rice and Wheat - Commercial crops: Cotton, Jute and Sugarcane Plantation crops: Tea, Coffee and Rubber. Unit-III
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Plantation crops: Tea, Coffee and Rubber. Unit- III
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Industries – Population, Transport and Trade. Unit- IV Malaysia and Singapore 18 hour Malaysia and Singapore: Physiography – Climate – Drainage - Soils – Vegetation – Agriculture –
Unit- IV Malaysia and Singapore 18 hour Malaysia and Singapore: Physiography – Climate – Drainage - Soils – Vegetation – Agriculture –
Malaysia and Singapore: Physiography – Climate – Drainage - Soils – Vegetation – Agriculture –
Malaysia and Singapore: Physiography – Climate – Drainage - Soils – Vegetation – Agriculture –
த்தப்பாரை உயி
Unit- V 18 hour
Indonesia: Physiography – Climate – Drainage - Soils – Vegetation – Agriculture – Minerals Industries – Population, Transport and Trade.
Total lecture hours 90
Text Books:
1 Roger Minshull –Regional –Theory and Practice. Routledge
Books For Reference:
1 George B Cressey, Asia's lands and People. McGraw-Hill Book company
Natalia G. Studies in Regional Geography.
3 Naton Ginsburg, John E Bush and others - The pattern of Asia.
P PHI I (1000) 6
 De Blij Harm, J., (1980), Systematic Political Geography, John Wiley and sons, New York Duddly Stamp .L. A New Geography of India Burma & Ceylon

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

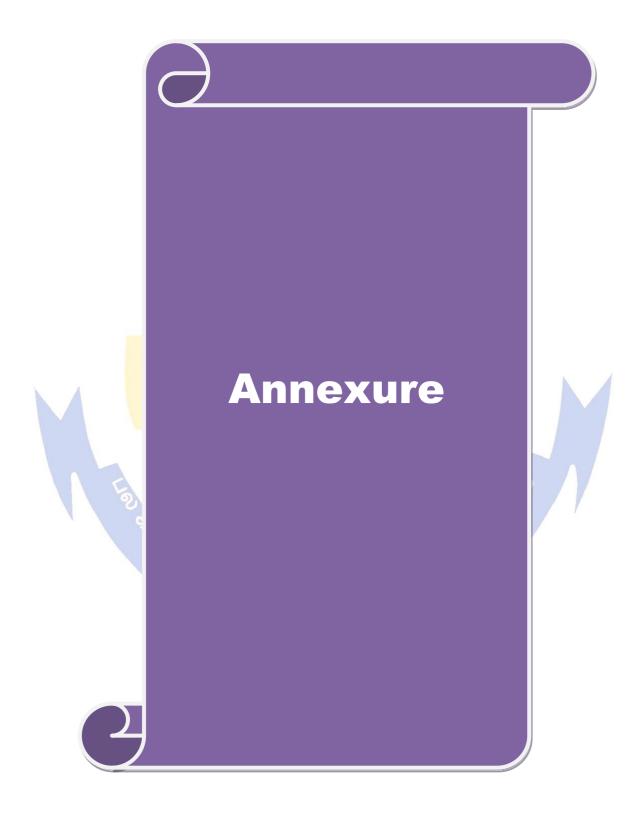


	6ZD	GEOGRAPHY OF TOURISIM	L	T	P	C				
Core/ Elective	/ Supportive	Skilled Based	3	0	0	3				
Pre-requisite		Basic knowledge in Educational tour	Syllab		202					
	•		versi	on	202	22				
Course Objectives: To understand about the Origin and Development of Tourism Sector and its Types										
To understand about the Origin and Development of Tourism Sector and its Types. To learn about Tourism Management, Organizations and Government Policy.										
To learn about Tourism Management, Organizations and Government Policy.										
Course Outcon	mes•									
		e, the students will have ability to:								
CO1 Equip with a basic understanding of nature and scope, trends and patterns of various types of tourisms. K2										
CO2 Have so		e on geographical, environmental and socio-cultural a	spects o	f	K1					
CO3 Apply to		Geo-tourism and analyze the prospect and problems a	associate	d	K3					
•		ntre form the world.		+	K3					
		n visa and transport plan.			K2					
		stand; K3 - Apply; K4 - Analyze; K5 - Evaluate;								
	GA	3 50								
Unit- I	24	Tourism: Definition			hour	S				
Tourism: Defin	ition <mark> – Types</mark> -	 History and Development – Economic importance or 	f Tourisi	m.						
Unit- II	. 1 . 1 . 7	Tourism Potentials in India	1	10	hour	S				
- Sports and Ga		<mark>'ourist Attractions – Religious – Recreations –</mark> Festiva	.IS							
- Sports and Ga	incs.									
Unit- III	2	Tourism Management	7 /	11	hour	S				
	gement: Accon		olicity ar							
			Tourism Management: Accommodation - Transport facility - Travel Agencies - Publicity and Marketing – Visa and Passport - Tourist Guides.							
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- visa and i assport - Tourist Guides.								
Unit- IV Tourism Organizations 11 hours										
		Tourism Organizations								
Tourism Organ		Tourism Organizations national - WTO and PATA - Tourism Organizations	s in Indi							
			s in Indi							
Tourism Organ TTDC – Role a		national - WTO and PATA - Tourism Organizations	s in Indi	a: IT	DC a	nd				
Tourism Organ TTDC – Role a Unit- V	and Functions.	national - WTO and PATA - Tourism Organizations Tourism in Tamil Nadu		a: IT	DC a	nd s				
Tourism Organ TTDC – Role a Unit- V Tourism in Ta	and Functions.	national - WTO and PATA - Tourism Organizations		a: IT	DC a	nd s				
Tourism Organ TTDC – Role a Unit- V	and Functions.	national - WTO and PATA - Tourism Organizations Tourism in Tamil Nadu		a: IT	DC a	nd s				
Tourism Organ TTDC – Role a Unit- V Tourism in Ta	and Functions.	Tourism in Tamil Nadu otential Areas – Major Tourist Centre – Planning	and Ma	a: IT	hour	nd s				
Tourism Organ TTDC – Role a Unit- V Tourism in Ta	and Functions.	national - WTO and PATA - Tourism Organizations Tourism in Tamil Nadu	and Ma	a: IT	DC a	nd s				
Tourism Organ TTDC – Role a Unit- V Tourism in Ta Government Po Text Books:	amil Nadu: Policies. A. K., (2010), 7	Tourism in Tamil Nadu otential Areas – Major Tourist Centre – Planning	and Ma	a: IT	hour ment	nd s				
Tourism Organ TTDC – Role a Unit- V Tourism in Ta Government Po Text Books: 1 Bhatia, A Ltd., Nev	amil Nadu: Policies. A. K., (2010), 7 w Delhi.	Tourism in Tamil Nadu otential Areas – Major Tourist Centre – Planning Total lecture	and Ma	a: IT	hour ment	nd s				
Tourism Organ TTDC – Role a Unit- V Tourism in Ta Government Po Text Books: 1 Bhatia, A Ltd., Nev Books For Ref	amil Nadu: Policies. A. K., (2010), 7 w Delhi.	Tourism in Tamil Nadu otential Areas – Major Tourist Centre – Planning Total lecture Tourism Development – Principles and Practices, Sterl	and Ma hours ling Pub	a: IT	hour ment	nd s				
Tourism Organ TTDC – Role a Unit- V Tourism in Ta Government Po Text Books: 1 Bhatia, A Ltd., Nev Books For Ref 1 Douglas New Yor	amil Nadu: Policies. A. K., (2010), 7 w Delhi. Pearce: Pearce (194 rk.	Tourism in Tamil Nadu otential Areas – Major Tourist Centre – Planning Total lecture	and Ma hours ling Pub	a: IT	hour ment	nd s				

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	se Designed Ry. Dr. J. Ganesan						

Mappin	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	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 2021-2022)

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 3rd 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 (4th or 5th or 6th semester).

Coimbatore

(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 II 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.

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List of E	lecti	ve papers (Colleges can choose any one of the paper as Electives)			
Elective – I		Urban Geography			
	В	Natural disasters and Management			
	C	o-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:	Mark <mark>s Distri</mark> bution:					
Internal–25Marks	Internal – 25 Marks					
External – 75 <mark>Mar</mark> ks	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		