

TRIPURA UNIVERSITY Department of Geography and Disaster Management

M.Sc. in Geography and Disaster Management

Programme Specific Outcome

At the end of the Programme student-

- Acquire knowledge in quantitative techniques and Cartography.
- Expertise to analyse Remote Sensing data (Satellite images) and GIS mapping.
- Expertise in small research project, field survey, and report writing etc.
- Acquire the knowledge on physical, human and applied fields of geography.
- Prepare for facing competitive exams like UPSC, TPSC, TET, SSC, PGT, TGT, etc.

SEMESTER I- 21Credits (Core Course (C): 13 Credits; Foundation Course (F): 4 Credits, Elective (E): 4 Credit)

Course	Name of the Course	Cred	Credit Distribution			Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM	Geomorphology	4			4	100
701C		4			4	100

At the end of the course student-

- Acquire knowledge on the relationship between geomorphic processes and resultant landforms on the earth's surface.
- Could explain the mechanism of plate movement and related tectonic activities.
- Could assess the denudation processes and relate them in the real field.
- Well versed with evolutionary concepts of various landforms from different climatic regions.

Course	Name of the	Cours	e	Credi	t Distri	bution	Total	Marks
Code				L	Т	Р	Credit	(Scaled)
GEDM	Population	&	Settlement	4			4	100
702C	Geography			4			4	100

- will be able to learn about population data sources
- have an idea about the population composition of the world and India.
- Understand the trends and patterns of the components of population change in India and the world.
- Learn the concepts of the population theories and the population policies and link with population characteristics.
- Get an idea about the settlement system both for rural and urban regions.
- Understand the spatial distribution of rural settlements and can recognize their shape, size and patterns.
- Can correlate environmental impact on house types in different parts of India
- Can identify different urbanized regions, can categorize settlement hierarchy and size-class distribution of towns.

• Acquire knowledge about knew internal structure of towns and various models of development of urban areas.

Course	Name of the Course	Credi	t Distri	bution	Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM	Statistical Techniques and			5	5	100
703C	Cartography (Practical)			5	5	100

At the end of the course student-

- Are able to apply various statistical and cartographic techniques to deal with the available data in resolving geographical issues.
- Can understand the techniques of sampling.
- Knew how to correlate two or more variables.
- Acquire knowledge about spatial measurements of network analysis.
- Gets knowledge how to solve geographical data matrix.

Course	Name of the Course	Credit Distribution		Total	Marks	
Code		L	Т	Р	Credit	(Scaled)
GEDM 704E	Agricultural Geography	4			4	100

At the end of the course student-

- will be able to understand about the determinants of agricultural land use.
- Have an idea on the concepts, trends and patterns of land holdings
- Will know about the agricultural regions in the world and in India.
- Will have knowledge about different models in agricultural geography.
- Will know about different agricultural revolution and use of technology in agriculture.
- Will know about the importance of sustainable agriculture.
- Will learn about the agricultural developments and regional imbalances in India and the agricultural problems in India.

Course	Name of the Course	Credit Distribution			Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 705E	Regional Geography of India	4			4	100

At the end of the course student-

- To get Knowledge of regions and regionalization of India with changing time scale.
- To understand the regional issues, conflicts and regional disparities.
- To comprehend the concept of Regional Cooperation.
- To get the Policy Framework in Regional Development.

Course	Name of the Course	Credit Distribution			Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM	Environment & Ecosystem	4			Λ	100
706E		4			4	100

- Students will be able to recognize the physical and socio-cultural components of environment.
- Students will learn the various approaches of studying man-environment relation.

- Students will get knowledge of various ecosystems of the earth.
- Students will get updated with the various International and National acts, conventions and treatise for the protection of environment.

SEMESTER II- 25 Credits (Core Course (C): 17 Credits; Elective Paper from other department (E): 4 Credits, Elective (E): 4 Credit)

Course	Name of the Course	Cred	Credit Distribution		Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 801C	Climatology	4			4	100

At the end of the course student-

- Acquire knowledge about the Earth's atmosphere.
- Apply knowledge about atmospheric pressure and winds influences on climate.
- Understand the role of atmospheric moisture,
- Apply the learned knowledge in day-to-day life role of weather and climatic changes.

Course	Name of the Course	Credi	Credit Distribution		Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 802C	Fundamentals of Remote Sensing and GIS	4			4	100

At the end of the course student-

- Acquire knowledge about analyze and interpretation of aerial photographs and understand the principles of remote sensing, sensor resolutions etc.
- Acquire knowledge about image interpretation, image classification, and major satellite sensor and utilizations.
- Know to use Geographic Information System (GIS) software for contemporary mapping skills.
- Apply GIS to the preparation of different thematic maps.

Course	Name of the Course		it Distri	ibution	Total	Marks
Code		L	Τ	Р	Credit	(Scaled)
GEDM 803C	Remote Sensing and GIS (Practical)			5	5	100

- Apply Aerial Photographs for preparation of LULC map.
- Apply knowledge to prepare density slicing, supervised and unsupervised classification maps through satellite images in ILWIS software.
- Apply knowledge to digitize satellite images for prepare the maps through QGIS.
- Apply knowledge for preparation and analyzing maps like e the DEM, DTM, TIN etc through QGIS software.

Course	Name of the Course	Cred	it Distr	ibution	Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 804C	Social and Political Geography	4			4	100
At the en	d of the course student-					
• wi	ll be able to learn and understand ab	out the	nature a	and scope	e of social g	eography
an	d its relationship with other disciplin	es.				
• W	ill get an idea about the developmen	t of soc	ial geog	raphy in	India.	
• W	ill be able to identify the patterns of	geograp	ohical d	istributio	on of tribes,	caste,
lar	nguages and religions.					
• W	ill be able to identify the socio-cultu	ral regio	ons of I	ndia.		
• wi	ll be able to learn and understand n	ature ar	nd scop	e of polit	tical geogra	phy and its
rel	ationship with other disciplines.					
• W	ill understand the theories of politica	l geogr	aphy.			
• W	ill understand the concepts and class	ificatio	n of stat	te, nation	, frontiers,	boundaries
ter	ritory etc.					
• W	ill get an idea about electoral geogra	phy.				
• W	ill understand the geostrategic views	•				
	ill understand the geostrategic views ill have an idea about the conflict		disputes	s based	on religion	, language
• W res	ill have an idea about the conflict sources and the conflict resolution	s and	-		-	
• W res	ill have an idea about the conflict sources and the conflict resolution ganizations.	s and through	n globa	l and reg	gional asso	ciation and
• W res org	ill have an idea about the conflict sources and the conflict resolution	s and through	n globa		gional asso	ciation and
• W res	ill have an idea about the conflict sources and the conflict resolution ganizations.	s and through	n globa	l and reg	gional asso	ciation and
• W res org	ill have an idea about the conflict sources and the conflict resolution ganizations.	s and through	n globa it Distr	l and reg	gional asso Total Credit	Marks (Scaled)
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• W res or Course Code GEDM 805E	 ill have an idea about the conflict sources and the conflict resolution ganizations. Name of the Course Geography of North-East India & 	s and through	n globa it Distr	l and reg	gional asso Total Credit	Marks (Scaled)
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- Understand the soil structure and formation of soils.
- Understand soil classification and major soil groups in India.
- Awareness about causes of soil pollution and environmental degradation.
- Acquire knowledge about the role of biodiversity and conservation of forest and wildlife.
- Know the wildlife acts and policies.

Course	Name of the Course	Credit Distribution			Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 807E	Geography of Tourism	4			4	100

- To understand the significance of Tourist resources, related factors and philosophy, problem.
- To discuss the significance of Conservation of tourist spots.
- To corelate tourism management and economic development.
- To review the Tourism planning, strategy

SEMESTER II- 21 Credits (Core Course (C): 17 Credits; Elective (E): 4 Credit)

Course	Name of the Course	Credi	t Distri	bution	Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM	Hazard and Disaster	4			4	100
901C	Management	4			4	100
At the end	l of the course student-					
• Wi	ll be able to understand the concepts	s of haz	ards an	d disaster	rs.	
• Wi	ll know the different types of hazard	ls and c	lisasters			
• Wi	ll understand the causes and consequent	uences	of haza	rds and d	isasters.	
• Wi	ll have an idea disaster management	t of haz	ards and	d disaster	·s.	
Course	Name of the Course	Credi	t Distri	bution	Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 902C	Geographical Thought	4			4	100
	l of the course student-					
• To	identify historical evolution of the p	orogress	s of geo	graphica	l knowledge	
wit • To	gather knowledge about the philoso h different philosophical theorizatio understand gradual Changing work pate	n		_	_	
• To	discuss evolution of thought proces	s the In	dian ge	ography		
Course	Name of the Course	Credi	t Distri	bution	Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 903C	Research Methods and Techniques in Geography	4			4	100
At the end	l of the course student-	1	1	1	I	I
	t to learn how to prepare a research		-			
pre	paring the hypothesis and deriving t	he obje	ctives t	o underst	tanding the	problem.

- learn to resolve the issues both quantitatively and qualitatively and finally how to present it as a report.
- Understand formulate research based on specific problems in Geography and Disaster Management.
- Know how to prepare hypothesis and ask research questions.
- Know how to review literature from a specific field of research.
- Know how to devise methodology based on different studies.
- Know how to carry out research based on suitable statistical methods.
- Know how to analyse the data.
- Know how to write the results of the study and discuss w.r.t similar studies.
- Know how to write the final report in the form of dissertation.

Course	Name of the Course	Cred	lit Distr	ibution	Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 904C	Surveying & Field Report			5	5	100

- Students get to physically verify the problems and issues related to urban and rural areas by visiting the spot and interacting with the various stakeholders of the region.
- To Measure a physical object/ area of a geographical space with survey instrument; Mathematical Calculation and drawing of a map/ plan.
- Process of primary data collection through different methods, interaction and knowledge of analysis of real society, identification of physio-socio-economic issues, connect social issues and geographical knowledge.

Course	Name of the Course	Credit Distribution			Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 905E	Natural Resource Management	4			4	100

At the end of the course student-

- Students will learn the various types and distribution of natural resources.
- Students will understand the importance of conservation and management of natural resources.
- Students will get update with the Know the major resource region in India and North-East India.

Course Name of the Course		Credit Distribution			Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 906E	Hydrology & Water Resource Management	4			4	100

- Acquire the knowledge on hydrological parameters.
- Know the importance of surface water hydrology and surface water resources in India.
- Apply the knowledge for estimation of groundwater resources and flow.

- Apply the knowledge when society facing challenges like drought, floods, water conflicts, water contamination etc.
- Suggest to public importance of water harvesting and conservation.

Course	Name of the Course	Credi	t Distri	bution	Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 907E	Urban Geography	4			4	100

- To get information and Evolution of urban geography and urbanization in terms of spatio-temporal context .
- To corelate the urban infrastructure associated with urban issues and environment.
- To Symbiotic relationship between Urban economy and urban population.
- To analyse critically the urban environmental problem.

SEMESTER IV- 19 Credits (Core Course (C): 15 Credits; Elective (E): 4 Credit)

Course	Name of the Course	Cred	it Distr	ibution	Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 1001C	1- Fluvial Geomorphology	4			4	100
At the end	l of the course student-					
• Ur	derstand the mechanism of stream h	ydrauli	ics.			
• Ac	quire knowledge on river morpholo	gy.				
d11	ferent drainage patterns.					
	in analytical efficiency to highlight	-			-	
Course	in analytical efficiency to highlight Name of the Course	Cred	it Distr	ibution	Total	Marks
		-			-	Marks
Course		Cred	it Distr	ibution	Total	
Course Code GEDM 1001C	Name of the Course 2- Regional Planning &	Cred L	it Distr	ibution	Total Credit	Marks (Scaled)
Course Code GEDM 1001C At the end	Name of the Course 2- Regional Planning & Development	Cred L 4	it Distr T	ibution P	Total Credit 4	Marks (Scaled) 100
Course Code GEDM 1001C At the end • To	Name of the Course 2- Regional Planning & Development d of the course student-	Cred L 4 and reg	it Distr T	ibution P	Total Credit 4 -bases plan	Marks (Scaled) 100
Course Code GEDM 1001C At the end • To • To	Name of the Course 2- Regional Planning & Development d of the course student- make a detailed analysis of region a	Cred L 4 and reg models	it Distr T ionaliza of regi	ibution P ation area	Total Credit 4 -bases plan ning.	Marks (Scaled) 100
Course Code GEDM 1001C At the end • To • To • To	Name of the Course 2- Regional Planning & Development d of the course student- make a detailed analysis of region a get information about theories and a get information about theory about the get information about theory about the get information about theory about the get information about the ge	Cred L 4 and reg models issues a	it Distr T ionaliza of regionand dev	ibution P ation area onal Plan elopment	Total Credit 4 -bases plan ning.	Marks (Scaled) 100

Course	Name of the Course	Cred	it Distri	ibution	Total	Marks
Code		L	Т	Р	Credit	(Scaled)

GEDM	3- Transport Geography	4		4	100
1001C		4		4	100

- Understand the concepts of transportation in relation spatial interconnection and the recent trends in transportation.
- Get an idea about demand and supply and transport economics.
- Acquire knowledge about trade, its global and local patterns
- Understand the dynamics of different transport modes
- Obtain an idea about various transport policies and its implications
- Will be able to relate with the real-life issues of transport, particularly in an urban landscape.
- The students will be able to understand the concepts of transportation and will be able to relate with the real-life issues of transport, particularly in an urban landscape.

Course	Name of the Course		Credit Distribution			Total	Marks
Code			L	Т	Р	Credit	(Scaled)
GEDM	4- Applied Studies	in					
1001C	Resources	&	4			4	100
	Environmental		4			4	100
	Management						

At the end of the course student-

- Know the major resources in India and Tripura.
- Understand the effects of flash floods, droughts, cloudburst and cyclones.
- Know the effectiveness of land-induced disaster.
- Acquire knowledge on forest fire, man-wildlife conflict, nuclear hazard etc.

Course	Name of the Course	Credit Distribution			Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 1001C	5- Population & Resource	4			4	100

- will be able to understand the components of population change, their trends and geographical patterns and its implications.
- Will be able to corelate the relationship between population and resource.
- Will understand the trends, patterns and implications of different population groups.
- Will know about the distribution and access to resources based on gender, location, caste, tribe, ethnicity and religion.
- Will understand the conflicts on access and distribution to resource.
- Will have an idea about the trends and patterns of resource consumption and its effect on the environment.

Course	Name of the Course	Cred	it Distr	ribution	Total	Marks
Code		L	Т	Р	Credit	(Scaled)

GEDM	6- Watershed Management	4		Λ	100
1001C		4		4	100

- Know watershed concepts, character sic and significance of watershed
- Acquire knowledge relation between water and soil.
- Acquire knowledge on water resource appraisal.
- Acquire knowledge importance of soil and water conservation, and watershed management and planning.

Course	e Name of the Course Credit Distribution		Total	Marks		
Code		L	Т	Р	Credit	(Scaled)
GEDM 1002C	1- Fluvial Geomorphology (Practical)			5	5	100

At the end of the course student-

- Could analyse drainage basin through various morphometric techniques.
- Acquire practical knowledge to analyse spatial-temporal changes in river morphology.
- Could generate hydrological data through field investigation.
- Develop skill to represent cartographic data using MS excel and to prepare vector layers from raster maps using GIS technique.

		Credit Distribution			Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 1002C	2- Regional Planning & Development (Practical)			5	5	100

At the end of the course student-

- To analyse the regional concentration and disparity
- To analyse the correlation of transport and Regional Development
- To analyse Regional Growth.
- To make Dissertation oriented on real regional Problems/issues.

Course	Name of the Course		Credi	t Distri	bution	Total	Marks
Code			L	Т	Р	Credit	(Scaled)
GEDM	3- Transport	Geography			5	5	100
1002C	(Practical)				5	5	100

- Will get an idea about how the transportation network of an area can be estimated and how to identify the lacunae therein.
- Gets a hand-on experience on the use of instruments and GIS in transportation analysis
- Get to learn how to identify and resolve problems related to transport through their dissertation work.

Course	Name of the Course	Credi	it Distri	bution	Total	Marks (Scaled)
Code		L	Т	Р	Credit	

GEDM	4- Applied Studies in							
1002 C	Resources &		5	5	100			
	Environmental		3	5	100			
	Management (Practical)							
At the end of the course student-								
• Get	knowledge about soil testing para	eters.						
• Gets knowledge about water quality parameters.								
• understand the use of climograph, hythergraph, ergograph etc.								
• SWOT analysis.								

		Credit Distribution			Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 1002 C	5- Population & Resource (Practical)			5	5	100

- Will be able to measure and apply the components of population change
- Will be able to measure and apply the components of population distribution.
- Will be able to measure and apply the components of population composition.
- Will be able to measure and apply the components of inequality.

Course				t Distri	bution	Total	Marks
Code			L	Т	Р	Credit	(Scaled)
GEDM	Watershed Management	(6)			5	5	100
1002 C	(Practical)						

At the end of the course student-

- Apply knowledge to morphometric analysis.
- Apply to know water surplus and deficit areas.
- Apply to know the water quality for the purpose of domestic and agricultural use.
- Apply knowledge to know land capability and suitability of crops.
- Apply to prepare maps of land capability, NDWI, MNDWI, SWAT etc through GIS environment.

Course	Name of the Course	Credit Distribution			Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 1003C	Dissertation			6	6	100

- Acquire knowledge for preparation of research problem.
- Know the frame objectives and research questions.
- Know the collection of primary and secondary data.
- Know the application of suitable statical methods according to research problem.
- Acquire knowledge analysis of data on objectives oriented.
- Acquire knowledge to delineate the results and conclusion.

Course	Name of the Course	Credi	t Distri	bution	Total	Marks
Code		L	Т	Р	Credit	(Scaled)
GEDM 1004 E	Industrial Geography	4			4	100

- To understand the classification, evolution of Industry.
- To get knowledge about Industrial Theory with present day relevance
- To know about Industrial policy of India, Industrial labour class, labour law.
- To identify the Problems and issues of related to industry, resources, market

Course				Credit Distribution			Total	Marks
Code				L	Т	Р	Credit	(Scaled)
GEDM 1005 E	Historical Geography	and	Cultural	4			4	100

- Understand the concepts of culture, cultural landscapes and cultural ecology.
- Gets to know how cultural diffusion occurs and can distinguish ideas related to acculturation, assimilation etc.
- Enhance knowledge about global culture, culture and technological development and hybridization of world culture.
- Will be able to understand the nature and scope of historical geography.
- Identify the sources of historical geography.
- Have knowledge about the territorial organisations and the socio-economic condition of India during the ancient, medieval and colonial period.