B.SC GEOGRAPHY

2021 SYLLABUS ONWARDS COURSE OUTCOMES

SEMESTER – I GEOMORPHOLOGY – I

Course Code: U21GET11

Course Outcomes:

After	r the completion of the course, students will be able to	
CO1	After this lesson, the students will have acquired knowledge about the relationship of physical geography with other branches of earth science and divisions of physical geography.	К2
CO2	Students will understand an overview of the structure of the earth, origin, composition and interior of the earth.	K2
CO3	Students will have basic concepts about relief features of plateaus, hills, foothills, valleys, plains and flood plains.	K2
CO4	Students will understand the endogenic and exogenetic movements of the earth.	K2
CO5	Students will learn about the effects of hazardous	K4

SEMESTER - I

PRACTICAL – I – FUNDAMENTALS OF MAP MAKING AND RELIEF REPRESENTATION

Course Code: U21GEP11

Course Outcomes:

After	the completion of the course, students will be able to	
CO1	After this paper, basic knowledge of scales and measurements.	K2
CO2	Students will be understand and knowledge use of instruments.	К3
CO3	Students will learn practically explain the rotometer.	К3
CO4	Student shall know how to measurement of area by square and plain meters methods.	K4
CO5	Students will be acquiring knowledge about the base level of the features of the maps.	K5

GEOMORPHOLOGY - II

Course Code: U21GET21

Course Outcomes:

After the completion of the course, students will be able to

able to work out a geomorphic process.	K2
Students will have acquired knowledge about the development of the earth's crust and methods of development of the major landforms.	K2
Students will be able to understand the processes by which transportation of earth material occurs through fluvial and gravitational processes.	К2
Students will be able to determine the physical, chemical and biological processes controlling the modern evolution of identified landforms.	K4
Students shall get to know about the formation of the earth's surface features, the role played by humans in changing the landscape and the significance of landforms in shaping the physical environment in an area.	К5
	Students will have acquired knowledge about the development of the earth's crust and methods of development of the major landforms. Students will be able to understand the processes by which transportation of earth material occurs through fluvial and gravitational processes. Students will be able to determine the physical, chemical and biological processes controlling the modern evolution of identified landforms. Students shall get to know about the formation of the earth's surface features, the role played by humans in changing the landscape and the

SEMESTER - II

CARTOGRAPHY

Course Code: U21GET22

Course Outcomes:

CO1	Students will be aware the knowledge about the relationship of cartography with other branches of earth science and disciplines of geography.	К2
CO2	Students can identify the earth's dimensions relating the cartographic problems and their geographic coordinate system.	К2
CO3	Students can evaluate the techniques of scales and suitable projections of different maps.	К3
CO4	Students will understand the various map components with help of SOI and NATMO.	K4
CO5	After that they will get the capacity of map making with suitable cartographic symbols	К5

SEMESTER – III

CLIMATOLOGY - I

Course Code: U21GET31

Course Outcomes:

After the completion of the course, students will be able to

CO1	Students will understand the composition and structure of the atmosphere.	К2
CO2	The students will be able to explain the position of weather phenomena, winds, humidity, precipitation and heat budget.	К2
CO3	They will be able to understand the elements and processes of climates, different climatic types and climate change.	К2
CO4	Students will be understood the mean global atmospheric circulations and disturbances, world climate systems, climatic variability and change.	K4
CO5	Students will be able to identify of climatic differentiation and the consequences of human activities.	K4

SEMESTER - III

ELECTIVE - I - BASICS OF REMOTE SENSING AND GIS

Course Code: U21GEE311

Course Outcomes:

CO1	Students will demonstrate knowledge of the foundations and theories of geographic information systems (GIS) and use the tools and methods of GIS.	K2
CO2	Students will demonstrate their knowledge of physical geography and the methods and techniques for observing, measuring, recording and reporting on geographic phenomena.	К2
CO3	Students will demonstrate their competence to work individually and as a team to develop and present a client-driven GIS solution.	К2
CO4	Student will be familiar with modern techniques in Geography.	K4
CO5	Students will be prepared to apply their skills in professional careers for UGC NET/SLET exams and other competitive exams including the civil services.	K5

SEMESTER - III

ELECTIVE - I - REGIONAL GEOGRAPHY OF ASIA

Course Code: U21GEE312

Course	Outcomes:
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After the	completion	of the	course.	students	will be	able	to
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CO1	They can know about their land formation, climate and natural vegetation.	K2		
CO2	Understand climatic condition and seasons in Asia.	K2		
CO3	Understand the irrigation and agricultural developments.			
CO4	They understand the economic resources of Asia	K2		
CO5	Evaluating the impacts of human activities on natural environments special reference to Asia	K4		

SEMESTER - III

ELECTIVE - I - CLIMATE CHANGE: VULNERABILITY AND ADAPTATION

Course Code: U21GEE313

Course Outcomes:

CO1	Understanding the foundational concepts of climate change and its impacts	K2
CO2	Assessing the human and environmental vulnerability to climate change	К3
CO3	Learning the various adaptation and mitigation for reducing the impacts of climate change and national action plan.	К2
CO4	Students will also have knowledge about climate change to impact on agriculture and water, flora and fauna and human health	K2
CO5	Students will be able to identify of climatic change differentiation and the consequences of human activities	K4

SEMESTER - III

JOB ORIENTED COURSE - I

PRACTICAL - COMPUTER APPLICATION IN GEOGRAPHY

Course Code: U21MSS31

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After	the completion of the course, students will be able to	
CO1	Students will have a basic knowledge of the components of computer	К2
CO2	Students will learn and understand the line graphs, poly graphs and compound line graphs.	K2
CO3	Students will have an effectively Understand the dot, choropleth, pie chart.	K2
CO4	Students will have the knowledge of the triangular graph.	К3
CO5	Students will have an effectively Understand the traffic flow, connectivity measures and binary matrix.	K4

SEMESTER – III Non – Major Elective – I - PRICIPLES OF REMOTE SENSING Course Code: 21GEN311

Course Outcomes:

CO1	Students will demonstrate knowledge of the foundations and theories of geographic information systems (GIS) and use the tools and methods of GIS.	K2
CO2	Students will demonstrate their knowledge of physical geography and the methods and techniques for observing, measuring, recording and reporting on geographic phenomena.	K2
CO3	Students will demonstrate their competence to work individually and as a team to develop and present a client-driven GIS solution.	KZ
CO4	Student will be familiar with modern techniques in Geography.	K 4
CO5	Students will be prepared to apply their skills in professional careers for UGC NET/SLET exams and other competitive exams including the civil services.	K

SEMESTER - III Non - Major Elective - I SOCIAL AND CULTURAL GEOGRAPHY

Course Code: 21GEN312

Course Outcomes:

After the completion of the course, students will be able to

CO1	After this lesson, the students will have acquired Knowledge about the spatial distribution of social groups, religions and language groups.	K2
CO2	Students will understand an overview of the culture complex, cultural heritage and cultural imperialism.	K2
CO3	Students will understand the factors affecting human health, disease and Planning.	К3
CO4	Students will have basic concepts about boundaries and frontiers.	K2
CO5	Students will learn about the political geography.	K2

SEMESTER - IV OCEANOGRAPHY

Course Code: U21GET41

Course Outcomes:

CO1	After this lesson the students will become able to acquaint themselves with nature and scope of oceanography and distribution pattern of land, sea and oceans.	K 2
CO2	Students will have knowledge about specific concepts of oceanography into a multidisciplinary analysis of the Earth	K2
CO3	Students will also have knowledge about ocean resources, their types and distribution and their influences upon mankind.	K2
CO4	Students will be learning about the principles involved in the generation of waves and tides and evaluate their effects on coastal processes and marine ecosystems.	K 4
CO5	Students will be learning about how the oceans are connected to major earth processes, such as atmospheric and oceanic circulation, climate and weather, plate tectonics and sustainability of humans.	K 2

SEMESTER – IV CLIMATOLOGY – II

Course Code: U21GET42

Course Outcomes:

After the completion of the course, Students will be able to

CO1	Students will be able to basic concepts about the structure and composition of the atmosphere and the elements of the hydrological cycle.	К2
CO2	They will learn how atmosphere and climate are a critical part of the earth system and climatic variability and change are central to the issue of current and future global environmental change.	К2
CO3	Understand the physical basis of the natural greenhouse effect, including the meaning of the term radioactive forcing.	К2
CO4	The students will be able to apply the knowledge about the process of weather and climate, Climate Change & global warming through human activities.	K4
CO5	Students will be able to develop a scientific understanding of climates and their characteristics.	К2

SEMESTER – IV ELECTIVE – II – GEOGRAPHY OF TAMILNADU

Course Code: U21GEE421

Course Outcomes:

CO1	Students can understand about the various physical features, climate and natural vegetation.	К2
CO2	To identify the nature of irrigation types and various multipurpose projects with help of agricultural activity	K4
CO3	Students will be identifying the different types of crops and their cultivated regions.	К2
CO4	Students will be able to understanding the location of industries and their availability of mineral resources.	K4
CO5	Students will have a fair knowledge about various population characteristics in relation to transport and trade	K4

SEMESTER - IV ELECTIVE - II - POLITICAL GEOGRAPHY

Course Code: U21GEE422

Course Outcomes:

After the completion of the course, Students will be able to

CO1	Students will be able to trace the connection between historical process of state formation and modern developments	К2				
CO2	To be able to analyse and interpret the key stages in the formation of the modern nation-state					
CO3	To understand the origins of political systems and be able to draw on the examples of different regions to explain the diversity of world orders today					
CO4	To be able to apply geopolitical theory to analysing the phenomenon of failed states and its implications for the international politics	К3				
CO5	To understand the politics of integration and be able to articulate potential challenges to the conventional understanding of sovereignty	К2				

SEMESTER - IV

ELECTIVE - II - SUSTAINABLE DEVELOPMENT

Course Code: U21GEE423

Course Outcomes:

CO1	Students will have acquired Knowledge about the sustainable development of components, limitations and historical background.	К2
CO2	Students will understand an overview of the millennium development goals of the national strategies and international experiences	К2
CO3	Students will understand the different ecosystems.	K2
CO4	Students will have basic concepts about challenges of universal health coverage, policies and global cooperation for climate change	K4
CO5	Students will learn about the good governance.	K2

NME – II – GEOGRAPHICAL INFORMATION SYSTEM

Course Code: U21GEN411

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After the completion of the course, Students will be able to

CO1	Students will acquire knowledge regarding the use of modern tools and technology like GPS, GIS in geographical studies and can apply this knowledge in any field of study.	К3
CO2	They can know about concepts, components, development, and types of GIS	К2
CO3	Students can acquire a broad knowledge regarding GIS and can developed idea about aerial photographs, satellite imagery etc.	К4
CO4	They understand about Aerial photography and Satellite Remote Sensing.	К2
CO5	Develop an idea about interpretation and application of GIS	K4

SEMESTER - IV NME - II - NATURAL REGIONS OF THE WOLRD

Course Code: U21GEN412

Course Outcomes:

CO1	Students will acquire knowledge regarding the Equatorial Region	KZ
CO2	They can know about Tropical Monsoon Region, Tropical Savanna, Climate, Soil, Vegetation, Life in Tropics and Economic Activity	K2
CO3	Students can acquire a broad knowledge regarding World Grasslands	KZ
CO4	They understand about Arid Region.	KZ
CO5	To help Students learn more about their local area and describe how places make them feel.	K3

PRACTICAL – II – CLIMATIC DIAGRAM AND WEATHER MAP INTERPRETATION

Course Code: U21GEP52

C O 1	Diagrammatic representation can be used for both the educated section and uneducated section of the society.	K2
C O2	Students will able to the graph like Hyther Graph, Climograph, and Ergo graph and difference between the Temperature and Rainfall data analysis.	K4
C O 3	Describe how these instruments are used to collect weather data from many geographic locations and many altitudes.	К4
C O 4	The role of satellites and computers in modern weather forecasting and meteorologists develop accurate weather forecasts	К3
C O 5	To help Students learn more about their local area and describe how places make them feel.	K5

SEMESTER - V

GEOGRAPHY OF RESOURCES - I

Course Code: U21GET51

Course Outcomes:

CO1	Students will become sensitized the classification of resources.						
CO2	Students will be learning conservation methods and techniques.						
CO3	Understanding the basic concept of resource and its various types and their utilities						
CO4	Acquiring basic information about potentials and management of resources like land, water, forest and power in global context.	K4					
CO5	Understanding the prevailing natural resource potential and problems of management.	K2					

SEMESTER - V WORLD REGIONAL GEOGRAPHY

Course Code: U21GET52

Course Outcomes:

After the completion of the course, Students will be able to

CO1	After this Lesson, the students will have acquired knowledge about the characteristics of region, Types of region, Formal, Functional and Specific region.	К2
CO2	Students will have Knowledge of the Tropical Regions, Equatorial region, Savanna region, tropical monsoon region and tropical deserts.	К2
CO3	Students will gain a better understanding of Mediterranean region, temperate desert region and chinna type region.	К3
CO4	Students will have an effective understand the Prairie type region and West European region.	К2
CO5	Students will gain Knowledge about the Taiga type, Tundra type and high mountain regions.	К2

SEMESTER - V HUMAN GEOGRAPHY

Course Code: U21GET53

Course Outcomes:

CO1	The students will be aware of the scope and contents of human geography.	K2
CO2	Students will acquire an understanding regarding the relationship between prevailing geographic environment and cultural practices of human being.	K2
CO3	This paper tries to build an idea among students regarding the role that geography play in community engagement.	K2
CO4	Students will have a general understanding of global human population patterns, and human impacts on the physical environment.	К3
CO5	Students will have a general understanding of how the physical environment, human societies, and local and global economic systems are integral to the principles of sustainable development.	K2

GOEGRAPHY OF INDIA

Course Code: U21GET54

Course Outcomes:

After the completion of the course, students will be able to

CO1	The student will get familiarized with the geographic dimensions of India in terms of its political and administrative characteristics; aspects of its regional vitality; and formation of regions.	К2
CO2	The student will understand climatic condition and seasons in India.	К3
CO3	They understand globalization and Indian economy and also understand the regional distribution of resource.	К2
CO4	They understand the population problems in India. Access the population policies and reaction the countries.	К3
CO5	Applying the knowledge of global issues to a unique scientific problem.	K4

SEMESTER - V

ELECTIVE - III - BIO GEOGRAPHY

Course Code: U21GEE531

Course Outcomes:

CO1	Students will be learning about the concept and relevance of biogeography, ecosystem and ecology responsible for the global trend.	K2
CO2	Students will be able to biodiversity, types of biodiversity, the role of humans in ecological disturbances and conservation issues and identify ecological aspects of the environment.	K 3
CO3	Able to Geography converging and forming our biosphere.	K2
CO4	Students will be able to discuss the basics of ecosystem services and the consequences of ecosystems.	K 4
CO5	Able to apply interaction of biotic and abiotic resources.	K 4

ELECTIVE - III - INDUSTRIAL GEOGRAPHY

Course Code: U21GEE532

Course Outcomes:

After the completion of the course, students will have ability to

CO1	Students will be able to identify the different industrial regions in India	K2
CO2	Students will gain knowledge about the Weber's Theory	К3
CO3	Students will be learning the significance of various industries.	K2
CO4	Evaluating the impacts of industrialization growth on natural environments, social and economic special reference to India	K4
CO5	After complete the lesson students got the appropriate awareness about Industrial Policy of India	K5

SEMESTER - V

ELECTIVE - III - DISASTER STUDIES

Course Code: U21GEE533

Course Outcomes:

CO1	Describe Definitions and Terminologies used in Disaster Management, Types and Categories of Disasters	K2
CO2	Students will be able to challenges posed by Disasters and Impacts of Disasters	К2
CO3	Describe various disasters that India is vulnerable to, and the hazard maps that enable them to visualize their vulnerabilities	К3
CO4	To understand about the Natural Disasters its Causes and Consequences	K4
CO5	To learn about Disaster Management and Mitigation.	K2

SBE - PRACTICAL - III

APPLICATIONS OF STATISTICAL METHODS IN GEOGRAPHY

Course Code: U21GES53

Course	Outcomes:
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After the completion of the course, students will have about	oility	itη	lit	li	^{l}i	i	i	1	t	۲	7	١	ı	v	v	ı	v	ı	i	ì	,	,	,	,	,	,	,	,	į	١	١	ı	ı	v	v	ı	ı	ı	١	١	١	١	١	١	١	١	١	٦	7	7	7	7	-	-	_	t	t	t	t	t	t	t	t	t	t	1	1	i	i	i	i	1	!	l	į	i	,	,)	ľ	Į	Į.	ı	a	2	C	(,	2	ŧ	,	۱	ľ	1	C	1	ı	ŀ		1	l	l	i	i	,	ı	ν	١		5	S	t	ı	n	21	e	l	a	ı	ı	u	l	tı	t	t	51	SI	S	S	S					٠.	?.	2	e	e	e	e	e	e	e
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CO1	Keeping in view the nature of data and purpose of study, students would be able to make a rational choice amongst listed various statistical methods.	K2
CO2	Demonstrate understanding of basic concepts of probability and statistics embedded in their courses.	К3
CO3	Students will be able to how to apply discrete and continuous probability distribution to various business problems.	К3
CO4	Show proficiency in basic statistical skills embedded in their courses.	K4
CO5	Students shall know how to organize, manage, and present data.	K5

SEMESTER - V

VALUE ADDED COURSE

FIELD WORK AND RESEARCH METHODOLOGY (PRACTICAL)

Course Outcomes:

CO1	Students should understand the link between quantitative research questions and data collection	К2
CO2	Learn the significance of field work in geographical studies.	K2
CO3	Understand the meaning of field and identifying the case study.	K2
CO4	Know about different types of field techniques.	K4
CO5	Develop an idea about research problems.	K5

GEOGRAPHY OF RESOURCES - II

Course Code: U21GET61

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After the completion of the course, students will be able to

CO1	Students will become sensitized to concept and classification of resources, use or misuse and will learn conservation methods and techniques.	К2
CO2	Develop an idea about resource.	К3
CO3	Understand the agricultural recourses	K2
CO4	Acquire knowledge about different types of Mineral and power resources.	К2
CO5	Showing an awareness and responsibility for the environment.	K4

SEMESTER - VI

GEOGRAPHICAL THOUGHT

Course Code: U21GET62

Course Outcomes:

CO1	The paper will be useful for students in understanding perspectives on the development and contemporary trends in geography and its systematic study.	K 2
CO2	Students will demonstrate an advanced understanding of the historical development of geographical thought.	K2
CO3	Develop an idea about evolution of geographical thinking and disciplinary trends in Germany, France, Britain, and United States of America.	K 2
CO4	Build an idea about between environmental determinism and possibillism, systematic and regional.	K 2
CO5	Know about the modern geographical thoughts and contribution of geography.	K 4

PRACTICAL – SOCIO ECONOMIC DATA ANALYSIS AND IMAGE INTERPRETATION

Course Code: U21GEP63

Course Outcomes:

After the completion of the course, students will be able to

CO1	Students will learn about the Simple line graph, Semi log - log log graph, Age and Sex Pyramid, Triangular graph and Population potential map.	К3
CO2	Students will learn and understand the Connectivity measures, Alpha, Beta and Gamma indices and Accessibility measures Binary matrix.	К3
CO3	Students will know the Index of Industrial Diversification.	К3
CO4	Students will have the knowledge of the Crop Combination analysis, Weaver's, Doiand Rafiullah's methods, Crop diversification Bhatia's method.	K4
CO5	Students will gain knowledge about the Nelson's and Rafiullah's method.	K5

SEMESTER - VI

PRACTICAL - FUNDAMENTALS OF MAP PROJECTIONS

Course Code: U21GEP64

Course Outcomes:

CO1	Students can be trained the basic principles of geographic coordinate systems in relation to the earth shape.	K2
CO2	Students will be able to identify how to drawn our earth surface in a suitable projection in our place	К3
CO3	Students will be able to identifying the different forms of projections in relation to the surface of the earth transformed into a flat surface drawn by plain paper.	К3
CO4	Students will develop a solid understanding of the distortion of various map projection on the earth surface	K2
CO5	After complete the lesson students got the appropriate awareness of coordinate system of projection in various countries of the world.	K5

REGIONAL GEOGRAPHY OF NORTH AMERICA

Course Code: U21GET63

Course Outcomes:

After the completion of the course, Students will be able to

CO1	They can know about their land formation, climate and natural vegetation in North America	K2
CO2	They understand the economic resources of region.	K2
CO3	Students will be identifying the different types of crops and their cultivated regions.	K2
CO4	Students will be able to understanding the location of industries and their availability of mineral resources.	K2
CO5	Students will have a fair knowledge about various population characteristics in relation to transport and trade	K2

SEMESTER - VI

ELECTIVE - IV - TRAVEL AND TOURISM

Course Code: U21GEE641

Course Outcomes:

CO1	They can know about their land formation, climate and natural vegetation in North America	К2
CO2	They understand the economic resources of region.	K2
CO3	Students will be identifying the different types of crops and their cultivated regions.	К2
CO4	Students will be able to understanding the location of industries and their availability of mineral resources.	К2
CO5	Students will have a fair knowledge about various population characteristics in relation to transport and trade	К2

ELECTIVE - IV - TRAVEL AND TOURISM

Course Code: U21GEE641

Course Outcomes:

After the completion of the course, Students will be able to

CO1	After this lesson students will have acquired about tourism and history of tourism.	K2
CO2	Students will have understood the tourism development.	K2
CO3	Student under the element of tourism and socio economic tourism.	К3
CO4	Acquire knowledge about the tourism potential and different tourism organizations in India.	К3
CO5	Students will be able to apply the principles of tourism to a local, regional or national community to develop a tourism policy and plan based on tourism parameters	К3

SEMESTER - VI

ELECTIVE - IV - ECOLOGY OF THE WORLD

Course Code: U21GEE642

Course Outcomes:

CO1	After this lesson the students will become able to demonstrate a history of social and environmental processes that have influenced forming of the world's major cultural regions.	К2
CO2	Will become able to compare evolutionary processes of human societies under different historical, cultural and environmental perspectives.	K2
CO3	Will acquire knowledge of major regions of the world with cultural and physical features.	K2
CO4	Know about different types of region in the world	K2
CO5	Students can acquire knowledge regarding developed, underdeveloped and developing regions of the world.	K4

ELECTIVE - IV - GEOGRAPHY OF HEALTH

Course Code: U21GEE643

After the completion of the course, Students will be able to

CO1	They can know about their Geographical factors affecting in human health	К2
CO2	They understand the health risks of region.	K2
CO3	Students will be identifying the different types of diseases.	К3
CO4	Students will be able to understanding the Climate Change and Human Health.	K4
CO5	Students will have a fair knowledge about various communicable and non – communicable diseases in relation to Geographical perspectives	K2

SEMESTER - VI

SBE - PRACTICAL - PRINCIPLES OF SURVEYING

Course Code: U21GES64

Course Outcomes:

CO1	Students can learn the basic principles of survey in relation to their survey instruments.	К2
CO2	They got the capability of handling the survey instruments with direct field knowledge	К3
CO3	Students can be able to do the field work using various instruments like graphical survey methods	K4
CO4	Students will be able to demonstrate an understanding to the direction related measuring survey equipment's	K4
CO5	After complete the lesson they got the appropriate knowledge of handling different survey methods	К5