



DANTULURI NARAYANA RAJU COLLEGE

(Autonomous)

BHIMAVARAM, W.G.DIST, ANDHRA PRADESH, INDIA, PIN- 534202.

(Accredited at 'B⁺⁺' level by NAAC)

(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

GEOGRAPHY

SEMESTER-I

COURSE: PHYSICAL GEOGRAPHY

CO	COURSE OUTCOME	LEVEL
CO1	Define key concepts and principles in physical geography	L2
CO2	Identify major landforms, climatic regions, and biomes on Earth	L2
CO3	Analyze the processes shaping Earth's physical features such as erosion, weathering, and plate tectonics	L3
CO 4	Evaluate the impact of human activities on natural processes and landscapes	L3
CO 5	Apply geographical tools and techniques to study physical phenomena, such as maps, GIS, and remote sensing	L4
CO6	Synthesize information from fieldwork and laboratory experiments to understand physical geography phenomena	L4

SEMESTER-II

COURSE: HUMAN GEOGRAPHY

CO	COURSE OUTCOME	LEVEL
CO1	Describe the major concepts and theories in human geography	L2
CO 2	Identify patterns of population distribution and migration at various scales	L2
CO3	Analyze the relationship between human activities and the	L3
CO4	Evaluate the socio - economic impacts of globalization on different regions	L3
CO5	Apply demographic theories and models to analyze population dynamics	L4
CO6	Synthesize case studies to understand the complexities of urbanization and rural development	L4



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Semester – III

COURSE: ECONOMIC GEOGRAPHY

CO	COURSE OUTCOME	LEVEL
CO1	Understand the fundamental principles of economic geography, including the spatial distribution of economic activities and theories of regional development. (Understanding	L2
CO2	Identify and explain the factors influencing the location of industries, trade patterns, and the spatial organization of economic activities at various scales. (Understanding	L2
CO 3	Analyze the impacts of globalization, technological advancements, and government policies on local and regional economies. (Analyzing	L3
CO4	Evaluate the role of transportation networks, natural resources, labor markets, and infrastructure in shaping economic landscapes. (Evaluating	L3
CO 5	Apply spatial analysis techniques and geographic information systems (GIS) to investigate spatial patterns of economic development and inequality. (Applying	L4
CO6	Synthesize historical, cultural, and political factors to understand the complexities of India's regional diversity and identity. (Creating - 4)	L4

Semester - IV

COURSE: GEOGRAPHY OF INDIA

CO	COURSE OUTCOME	LEVEL
CO1	Understand the physical and cultural landscapes of India, including its diverse climate regions, landforms, and cultural heritage. (Understanding	L2
CO2	Identify and describe the major physiographic divisions, river systems, and natural resources of India. (Understanding	L2
CO3	Analyze the spatial patterns of population distribution, urbanization, and economic activities in different regions of India. (Analyzing	L3
CO4	Evaluate the environmental challenges facing India, such as water scarcity, deforestation, and pollution, and their impacts on livelihoods and eCOsystems. (Evaluating	L3
CO5	Apply GIS and remote sensing techniques to map and analyze land use, land cover, and environmental changes in India. (Applying	L4
CO6	Synthesize historical, cultural, and political factors to understand the complexities of India's regional diversity and identity. (Creating	L4



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Semester – IV

COURSE: INTRODUCTION TO REMOTE SENSING & GEOGRAPHICAL INFORMATION SYSTEMS

CO	COURSE OUTCOME	LEVEL
CO1	Understand the principles and basic concepts of remote sensing, GIS, and their applications in geography and environmental studies. (Understanding)	L2
CO2	Identify different types of remote sensing platforms, sensors, and data acquisition techniques used to collect spatial data. (Understanding)	L2
CO3	Analyze remote sensing imagery to extract information about land cover, land use, and environmental changes. (Analyzing)	L3
CO4	Evaluate the strengths and limitations of remote sensing and GIS technologies for spatial analysis, decision.	L3
CO5	Apply GIS software to create maps, perform spatial analysis, and solve geographical problems. (Applying)	L4
CO 6	Synthesize remote sensing and GIS techniques to address real	L4

Semester – V

COURSE: ENVIRONMENTAL GEOGRAPHY

CO	COURSE OUTCOME	LEVEL
CO1	Understand the basic concepts of environmental geography including eCOsystems, biomes, and natural resource management.	L2
CO2	Identify and describe the major environmental issues facing the planet such as climate change, biodiversity loss, and pollution.	L2
CO3	Analyze the interactions between human activities and the natural environment, including the impacts of urbanization, agriculture, and industrialization.	L3
CO 4	Evaluate the effectiveness of environmental policies and conservation strategies at local, national, and global scales.	L3
CO5	Apply spatial analysis techniques and GIS tools to assess environmental degradation, habitat fragmentation, and ecological connectivity.	L4
CO6	Synthesize interdisciplinary knowledge from fields such as ecology, climatology, and sociology to propose sustainable solutions to environmental challenges	L4



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Semester – V

COURSE:DISASTER MANAGEMENT

CO	COURSE OUTCOME	LEVEL
CO1	Understand the concepts and principles of disaster management, including risk assessment, mitigation, and preparedness.	L2
CO 2	Identify different types of natural and human-induced disasters such as earthquakes, floods, wildfires, and industrial accidents.	L2
CO 3	Analyze the social, economic, and environmental impacts of disasters on communities and regions.	L3
CO 4	Evaluate the effectiveness of disaster response and recovery strategies, including emergency management protocols and early warning systems.	L3
CO 5	Apply GIS and remote sensing technologies to assess vulnerability and exposure to hazards, and to support disaster risk reduction efforts.	L4
CO 6	Synthesize interdisciplinary approaches from fields such as engineering, sociology, and public health to develop comprehensive disaster management plans.	L4