

BENGALURU CITY UNIVERSITY

CHOICE BASED CREDIT SYSTEM (As per SEP)

Syllabus for B.A/ B.Sc. Geography

2025-26 onwards

Proceedings

of curriculum and syllabus for B.A/B.Sc. Geography
Under Graduate Program in Geography

As per the guidelines issued in the Government of Karnataka order No: ED 166 UNE 2023 Bengaluru, Date: 08/05/2024, to implement the State Education Policy, the BOS, Geography UG Committee meeting was held on 10th to 12th of June 2025 in the Central College, Bangalore City University at 10.30 am. The BOS meeting is conveyed to discuss and finalize curricula and syllabus for Three Years under Graduate Program commencing during 2025-26 for III & IV Semesters of the Geography course for whole BA/BSc Programme.

At the outset **Jagadeesha N**, Assistant Professor and Chairman BOS UG, Department of Geography, Govt. Arts College, Bangalore - 01, Welcomed the Committee Members for the meeting and informed that University has directed to conduct BOS meeting to approve **Curriculum and Syllabus for B. A. / B. Sc. Geography Under Graduate Program** in Geography to be commenced in 2025-26 which has been designed on par with the guidelines given in the above-mentioned SEP implementation order.

Subsequently the BOS UG Committee members discussed thoroughly and recommended as under

	Item	Recommendations of the Committee
1	A / B. Sc. Geography Under Graduate	The BOS Committee resolved curriculum and Syllabus for B. A / B. Sc. Geography Under Graduate Programme in Geography to be commenced in 2025-26 (III & IV Sem.)

Jagadeesha N, Assistant Professor and Chairman BOS assured that the recommendations of the committee will be submitted to the University for further processing. The meeting concluded with vote of thanks.

of thanks	i.	
	Members of BOS Committee	
	Name, designation and address	Signature \bigcap
1.	Jagadeesha N, Assistant Professor, Department of Geography, Govt. Arts College, Bangalore-01	Chylmn 2
2.	Dr. Ashok Hanjagi, Professor and Chairman, Department of Geography, Bangalore University, Bangalore - 560056	
3.	Dr. Surendra P., Assistant Professor, Department of Geography, Bangalore University, Bangalore - 560056	5-29
4.	Prof. Rajasekaran D, Professor and HOD, Department of Geography, Govt. First Grade College, Ramanagara	FIFE.
5.	Dr. Shivamurthy H. N, Associate Professor, Department of Geography, Govt. Arts College, Bangalore-01	Ans
6.	Umme Naseeba, Associate Professor, Department of Geography, Government Arts College, Bangalore - 01	Rumeraseda,
7.	Dr. Srinivasa, Associate Professor, Department of Geography, Government First Grade College, Kengeri, Bangalore, PIN- 560040	and

Assistant Professor and Chairman, BOS, UG Bangalore City University

Program Name	BA / BSc in Geography			Semester	III
Course Title	Human Geography				
Course Code:	DSCGE311			No. of Credits	3
Contact hours 52 Hours (4/week)			Duration of SEA/Exam	3 hours	
Formative Assessment Marks 20		S	ummative Assessment Marks	80	

- CO 1. Define key concepts, models, and approaches in human and settlement geography using appropriate geographic terminology.
- CO 2. Explain the interrelationships between environmentalism, cultural regions, and demographic factors in shaping human geography.
- CO 3. Apply locational analysis and quantitative indices to case studies like Bangalore's CBD, human development, and ruralurban dynamics.
- CO 4. Analyze population dynamics and settlement patterns by comparing migration theories and central place hierarchies in urban and rural contexts
- CO 5. Evaluate the sustainability of urbanization policies and create proposals for improving social well-being and environmental impact in local settings.

Syllabus	52 Hrs
Perspectives in Human Geography: Areal Differentiation; Regional Synthesis; Dichotomy and Dualism; Environmentalism; Quantitative Revolution and Locational Analysis; Radical, Behavioural, Human and Welfare Approaches; Languages, Religions (Hinduism, Christianity, Islam and Buddhism) and Secularisation; Cultural Regions of the World; Human Development Index.	14
Settlement Geography: Types and Patterns of Rural Settlements; Environmental Issues in Rural Settlements; Hierarchy of Urban Settlements; Urban Morphology; Concept of Primate City and Rank-Size Rule; Functional Classification of Towns; Sphere of Urban Influence; Rural-Urban Fringe; Satellite Towns; Problems and Remedies of Urbanization; Sustainable Development of Cities. Case Study: Changing Rural Settlement Patterns and Environmental Challenges – A Study of a Village in Bangalore Rural District / Urban Morphology and Functional Classification of Towns – A Study of Bangalore Central Business District (CBD) / Human Development Index at Ward Level – A Micro Analysis in Bangalore's Peripheral Areas	14
Population Geography: Growth and Distribution of World Population; Demographic Attributes; Causes and Consequences of Migration; Concepts of Over-Under-and Optimum Population; World Population Problems and Policies, Social Well-Being and Quality of Life; Population as Social Capital.	12
Models, Theories and Laws in Human Geography: System Analysis in Human Geography; Malthusian, Marxian and Demographic Transition Models; Central Place Theories of Christaller and Losch; Perroux and Boudeville; Von Thunen's Model of Agricultural Location; Weber's Model of Industrial Location; Rostov's Model of Stages of Growth. Heartland And Rimland Theories; Laws of International Boundaries and Frontiers. Field Study: Migration Patterns and Quality of Life in Urban Slums – A Case Study in Bangalore / Population Density and Demographic Transition – A Ward-Level Analysis in Bangalore / Central Place Hierarchy and Urban Services – A Study of Towns around Bangalore.	12

- 1. Castree, Noel, et al., editors, A Companion to Environmental Geography, Wiley-Blackwell, 2016.
- 2. Daniels, Peter, et al. *Human Geography: Issues for the 21st Century.* Pearson, 2003.
- 3. de Blij, Harm J. Human and Economic Geography. Macmillan, 1992.
- 4. Dickens, F. E., and J. A. Pitts. Introduction to Human Geography. 1963.
- 5. Fouberg, Erin H. Human Geography: People, Place, and Culture. 13th ed., Wiley, 2020.
- 6. Hopkinson, M. F. *The Geography of Settlement*. Oliver & Boyd, 1989.
- 7. Hussain, Majid. Human Geography. Rawat Publications, 2003.
- 8. Johnston, R. J., Gregory, Derek, Pratt, Geraldine, and Michael Watts, editors. *The Dictionary of Human Geography*. 5th ed., Blackwell Publishing, 2008.
- 9. Jordan-Bychkov, Terry G., et al. *The Human Mosaic: A Thematic Introduction to Cultural Geography*. 11th ed., W. H. Freeman and Company, 2006.
- 10. Knox, Paul L., and Sallie A. Marston. Human Geography: Places and Regions in Global Context. 8th ed., Pearson, 2021.
- 11. Nellson, Gabler, and Vining. Human Geography: People, Cultures and Landscapes. 1995.
- 12. Ranganath, Dr. Manava Bhugola Shastra (Principles of Human Geography Kannada). Vidyanidhi Publications, Gadag.
- 13. Smith, David M. Geography, Inequality and Society. Routledge, 2017.
- 14. Sui, Daniel Z., and Michael F. Goodchild. The GIS Guide to Public Domain Data. Esri Press, 2014. (Useful for quantitative and locational analysis)
- 15. Warf, Barney. Global Geographies of the Internet. Springer, 2020.

Program Name	Program Name BA / BSc in Geography		Semester	III	
Course Title Map Projections		Practical Credits	02		
Course Code DSCGEP311		Contact Hours	39 Hours (3/week)		
Formative Assessment		10 Marks	Sumn	native Assessment	40 Marks

- CO 1. Define and classify map projections based on type, surface, and preserved properties.
- CO 2. Explain the concepts and uses of cylindrical, conical, and zenithal projections.
- CO 3. Construct selected projections using graphical or mathematical techniques.
- CO 4. Compare distortions in different projections and assess their suitability for various purposes.
- CO 5. Select and justify appropriate projections for thematic and topographic mapping tasks.
- Exercise 1. Map Projections Definition, Classification and Importance
- Exercise 2. Cylindrical Projection Simple Cylindrical, Cylindrical Equal Area, Mercator's Projections.
- Exercise 3. Conical Projections Simple Conical Projections, Conical Projection with Two Standard Parallels, Bonne's Projection, Polyconic Projection.
- Exercise 4. Zenithal Projections Polar Case, Zenithal Equidistant Equal Area, Zenithal Gnomonic, Zenithal Stereographic, Zenithal Orthographic.
- Exercise 5. Conventional Projections Sinusoidal Projection, Mollweide Projection.

- 1. Crampton, Jeremy W. Mapping: A Critical Introduction to Cartography and GIS. Wiley-Blackwell, 2010.
- 2. Field, Kenneth. Cartography. Esri Press, 2018.
- 3. Kellaway, George P. Map Projections. Methuen & Co. Ltd., London.
- 4. Kimerling, Jon, et al. Map Use: Reading, Analysis, Interpretation. 8th ed., Esri Press, 2020.
- 5. Mishra, R.P. Fundamentals of Cartography. Concept Publishing Company, 1982.
- 6. Monkhouse, F.J., and H.R. Wilkinson. Maps and Diagrams. Methuen & Co., 1971.
- 7. Raisz, Erwin. General Cartography. McGraw-Hill Book Company Inc., 1962.
- 8. Raisz, Erwin. General Cartography. McGraw-Hill, 1962.
- 9. Ranganath, and Mallappa. Map Projections (Kannada Version). Chetana Book House, Mysore.
- 10. Robinson, Arthur H., et al. *Elements of Cartography*. 6th ed., Wiley, 1995.
- 11. Salar Massod, M. Map Projections. Roa and Raghavam Co., Mysore.
- 12. Sarkar, A. Practical Geography: A Systematic Approach. Orient BlackSwan, 2015.
- 13. Singh, Gopal. Mapwork and Practical Geography. Surject Book Depot, New Delhi.
- 14. Singh, R. L. Elements of Practical Geography. Student's Friends, Allahabad.
- 15. Slocum, Terry A., et al. *Thematic Cartography and Geovisualization*. 4th ed., Pearson, 2022.
- 16. Tyner, Judith A. Principles of Map Design. 2nd ed., Guilford Press, 2019.

Formative Assessment for Theory		
Assessment type	Marks	
Sessional Tests	10	
Seminars / Presentations / Assignment / Case study / Field-Study / Project work etc.	10	
Total	20 Marks	

Formative Assessment for Practical			
Assessment type	Marks		
Sessional Tests-1/Lab Activity	05		
Case study / Field-Study / Project work etc.	05		
Total	10 Marks		

Program Name	BA / BSc in Geography		Semester	III
Course Title	(Elective 1) Introduction to Physic		cal Geography	
Course Code:	ELGE 3.1		No. of Credits	2
Contact hours	Contact hours 28 Hours (2/week)		Duration of SEA/Exam	1.5 hours
Formative Assessment Marks 10		Summative Assessment Marks	40	

- CO 1. Explain the origin, shape, size, and movements of the Earth and their geographical implications.
- CO 2. illustrate the Earth's internal structure and processes like plate tectonics, volcanism, and earthquakes.
- CO 3. Classify various types of rocks, soils, and weathering processes and evaluate their significance in landscape development.
- CO 4. *Interpret* the structure and composition of the atmosphere, along with spatial patterns of temperature, pressure, and rainfall.
- CO 5. Assess oceanic features including sea-floor topography, temperature, salinity, currents, tides, and their global climatic roles.

Syllabus	28 Hrs
Geodesy - Solar System; Origin, Shape and Size of the Earth, Movement of the Earth - Rotation and Revolution, Effects of the movement of Earth, Coordinates - Latitude, Longitude and Time.	7
Geomorphology - Structure of the Earth; Plate tectonics; Rocks - types, significance; Weathering -types; Soil - Formation and Types; Volcanicity; Earthquakes and Tsunamis	7
Climatology - Weather and Climate; Structure and Composition of the Atmosphere; Atmospheric Temperature – determining factors and distribution; Atmospheric Pressure; Winds and Rainfall – Types.	7
Oceanography - Distribution of Land and Sea; Bottom Relief of the Ocean; Temperature and Salinity of Sea Water; Ocean Tides; Waves; Ocean currents - Atlantic, Pacific and Indian Oceans.	7

- 1. B.S. Negi (1993) Physical Geography. S.J. Publication, Meerut
- 2. Barry, Roger G., and Richard J. Chorley. Atmosphere, Weather and Climate. 10th ed., Routledge, 2021.
- 3. Critchfield, Howard J. General Climatology. 5th ed., Pearson India, 2021.
- 4. D.S. Lal (1998) Climatology. Chaitnya publishing house, Allahabad
- 5. Garrison, Tom. Essentials of Oceanography. 13th ed., Cengage Learning, 2021.
- 6. K. Siddhartha (2001) Atmosphere, Weather and Climate. Kisalaya publication, New Delhi
- 7. Lutgens, Frederick K., Edward J. Tarbuck, and Dennis G. Tasa. *The Atmosphere: An Introduction to Meteorology.* 14th ed., Pearson, 2019.
- 8. Marshak, Stephen. Earth: Portrait of a Planet. 6th ed., W. W. Norton & Company, 2019.
- 9. Press, Frank, and Raymond Siever. *Understanding Earth*. 7th ed., Macmillan Learning, 2019.
- 10. R.N. Tikka (2002) Physical Geography. Kedarnath Ramnath & co, Meerut
- 11. Skinner, Brian J., and Stephen C. Porter. The Dynamic Earth: An Introduction to Physical Geology. 6th ed., Wiley, 2020.
- 12. Strahler, Arthur N., and Alan H. Strahler. Introducing Physical Geography. 6th ed., Wiley, 2020.

Formative Assessment for Theory			
Assessment type	Marks		
Sessional Tests	5		
Seminars / Presentations / Assignment	5		
Total	10 Marks		

Program Name	BA / BSc in Geography		Semester	III
Course Title	e (Elective 2) Introduction to Karna		itaka Geography	
Course Code:	ELGE 3.2		No. of Credits	2
Contact hours	ontact hours 28 Hours (2/week)		Duration of SEA/Exam	1.5 hours
Formative Assessment Marks 10		Summative Assessment Marks	40	

- CO 1. Describe Karnataka's physical setting, including relief, drainage, soil types, forests, and climate.
- CO 2. Analyse the regional distribution and significance of major food, commercial, and plantation crops in Karnataka.
- CO 3. Evaluate the role of river valley projects in the development of agriculture and irrigation in Karnataka.
- CO 4. Classify and compare the mineral resources and industrial development across different regions of Karnataka.
- CO 5. Interpret the patterns of transport infrastructure and population distribution with reference to major urban centres.

Syllabus	28 Hrs
Physical Setting - Location and Extent, Relief Features, Drainage System and Climate. Soil – Types and Distribution; Forest resources – Types and Wildlife Sanctuaries	7
Agriculture - Food Crops – Ragi, Paddy and Jowar, Commercial Crops- Cotton and Sugarcane and Plantation Crops- Coffee; Major River Valley Projects – Krishna, Tungabhadra, Upper Krishna and KRS	7
Minerals and Industries - Iron ore, Manganese, Gold and Copper; Growth and Development of Industries -, Iron and Steel, Silk, Sugar, Cement and Software Industry.	7
Transportation and Population - Distribution of Roadways, Railways, Airways and Waterways; Major ports and harbours; Growth, Density and Distribution of Population; Major Urban Centres – Bangalore, Mysore, Hubli, Dharwad and Mangalore.	7

- 1. Achyuthi Rao T.N.: Planning Regions of Karnataka
- 2. Economic Survey of Karnataka-Annual publication by Govt. of Karnataka.
- 3. Geetha, N. Urbanisation in Karnataka: Issues and Trends. NIRDPR Publications, 2022.
- 4. Government of Karnataka. Karnataka at a Glance: Statistical Handbook 2022. Department of Planning, 2022.
- 5. Gowda, K. M. Karnataka: A Regional Geography. 2nd ed., University of Mysore, 2020.
- 6. Hegde, G. M. Karnataka Environment and Forest Resources. Vikas Prakashana, 2023. (Kannada)
- 7. Mallappa, P. Karnatakada Bhugola. 5th ed., Sapna Book House, 2022. (Kannada)
- 8. Murthy, M. V. Drainage and River Systems of Karnataka. Vijaya Publications, 2019.
- 9. N.B.K.Reddy and Murthy: Regional Geography of Karnataka.
- 10. Prasad, S. K. Economic Geography of Karnataka. Prasaranga, Karnataka University Dharwad, 2020.
- 11. R.P.Mishra: Geography of Mysore- National Book Trust, New Delhi.
- 12. Ranganath, B. K. Karnataka Geography. 4th ed., Sapna Book House, 2021. (Kannada-English Bilingual)
- 13. Satish, T. N. Karnatakada Krushi Mattu Udyamashilathe. Vidya Pustaka, 2021. (Kannada)
- 14. Sharma, S. C. *Transport and Communication in Karnataka*. Himalaya Publishing House, 2020.

Formative Assessment for Theory		
Assessment type Marks		
Sessional Tests	5	
Seminars / Presentations / Assignment	5	
Total	10 Marks	

Program Name	BA / BSc in Geography		Semester	IV	
Course Title	urse Title Geography of India				
Course Code:	DSCGE411			No. of Credits	3
Contact hours	ours 52 Hours (4/week)			Duration of SEA/Exam	3 hours
Formative Assessment Marks 20			Summative Assessment Marks	80	

- CO 1. Identify India's physical features, monsoon systems, soil types, and climatic regions.
- CO 2. Explain resource distribution and agricultural practices including green and white revolutions.
- CO 3. Illustrate industrial development and transport networks using maps and field data.
- CO 4. Assess regional disparities in infrastructure and economic development using spatial analysis.
- CO 5. Propose sustainable development strategies for agriculture, industry, and transport sectors.

Syllabus	52 Hrs
Physical Setting: Space Relationship of India with Neighbouring Countries; Structure and Relief; Drainage System and Watersheds; Physiographic Regions; Mechanism of Indian Monsoons and Rainfall Patterns; Tropical Cyclones and Western Disturbances; Floods and Droughts; Climatic Regions; Natural Vegetation, Soil Types and Their Distributions.	16
Resources and Agriculture: Energy, Minerals, Biotic and Marine Resources, Forest and Wildlife Resources and Their Conservation; Energy Crisis. Agriculture Infrastructure: Irrigation, Seeds, Fertilizers, Power; Agro and Social-Forestry; Green Revolution and Its Socio-Economic and Ecological Implications; Significance of Dry Farming; Livestock Resources and White Revolution; Aqua-Culture; Sericulture, Apiculture and Poultry; Agro-Climatic Zones. Case Study: Impact of Monsoon Variability on Agriculture in Your District / Watershed Management and Soil Conservation in Your Taluk / Agro-Climatic Zoning and Crop Suitability in Your District	13
Industry: Evolution of Industries; Locational Factors of Cotton, Jute, Textile, Iron and Steel, Aluminum, Fertilizer, Paper, Chemical and Pharmaceutical, Automobile, Cottage and Ago-Based Industries; Industrial Regionalization; New Industrial Policy; Multinationals and Liberalization; Special Economic Zones; Tourism Including Ecotourism.	12
Transport, Communication and Trade Road, Railway, Waterway, Airway and Pipeline Networks and Their Complementary Roles in Regional Development; Growing Importance of Ports on National and Foreign Trade; Trade Balance; Trade Policy; Export Processing Zones; Developments in Communication and Information Technology and Their Impacts on Economy and Society; Indian Space Programme. Field Study: Industrial Cluster Mapping in Any Industrial Area in Bangalore / Role of Metro and Suburban Rail in Urban Mobility in Bangalore / Digital Divide and Communication Infrastructure in Bangalore Periphery Villages	11

- 1. Bhat, L. S. Regional Planning in India. Statistical Publishing Society, 2023.
- 2. Chand, Mahesh, and V. K. Puri. Regional Planning in India. Allied Publishers, 2020.
- 3. Dixit, R.S. Economic Geography: A Study of Resources. Rawat Publications, 2020.
- 4. Gopal Singh. Map Work and Practical Geography. Surject Publications, 2022.
- 5. Goudar, M. A. Bharatada Krishi mattu Udyamashilathe, Navakarnataka Publications, 2019.
- 6. Hussain, Majid. Geography of India. McGraw-Hill Education, 2023.
- 7. Ranganath, Dr. Bharata Bhugola (Geography of India Kannada). Vidyanidhi Publications, Gadag, 2020.
- 8. Sharma, P. D. Ecology and Environment. Rastogi Publications, 2021.
- 9. Sharma, T.C. Economic and Commercial Geography of India. Vikas Publishing, 2018.
- 10. Shinde, R. S. Bharata Bhugola mattu Arthika Bhugola (Kannada). Sapna Book House, 2021.
- 11. Singh, Jagdish. India: A Comprehensive Geography. Gyanodaya Prakashan, 2022.
- 12. Singh, R. L. India: A Regional Geography. National Geographical Society of India, 2011.
- 13. Srivastava, H. N., and G. S. Tomar. *Transport Geography*. Discovery Publishing House, 2021.
- 14. Tiwari, R.C. Geography of India. Prayag Pustak Bhawan, 2022.
- 15. Tyagi, B.P. Geography of Resources. Jai Prakash Nath & Co., 2019.

Program Name	m Name BA / BSc in Geography		Semester	IV	
Course Title	Title Cartographic Techniques		Practical Credits	02	
Course Code	DSCGE	GEP411		Contact Hours	39 Hours (3/week)
Formative Assessment 10 Marks		Summative Assessment	40 Marks		

- CO 1. Define and describe key concepts of cartography, map types, and marginal information.
- CO 2. Explain and apply various types of map scales including graphical constructions.
- CO 3. Construct and differentiate areal data representation techniques such as choropleth, flow maps, and cartograms.
- CO 4. Demonstrate manual map enlargement and reduction using traditional and estimation-based methods.
- CO 5. Interpret relief features through traditional representation techniques and construct manual profiles using contours and thread method.
- Exercise 1. Cartography Principles and Evolution. Map Meaning, Types and Marginal Information.
- Exercise 2. Scales Concept; Representative Fraction and Verbal Scale; Conversion of Scales; Graphical Construction of Linear, Diagonal, Time, Pace and Flexible Strip Scales.
- Exercise 3. Areal Data Representation— Dot, Proportional Circles, Sphere and Block Pile, Choropleth, Isopleths, Flow Maps, Cartogram Drawing (rubber sheet or square method)
- Exercise 4. Enlargement And Reduction of Maps: Square and Triangular Method; Pantograph Use; Freehand Rescaling practice using estimation and proportional division
- Exercise 5. Relief Features Traditional Methods: Pictorial (Hill Shading, Hachures); Mathematical (Spot Heights, Benchmarks, Trig Points); Composite (Contours and Layer Tinting); Contours: Characteristics, Interpretation, and Profile Drawing; Manual Construction of Transect Profiles using Thread Method

- 1. Anson, R. & Ormeling, F.J. International Cartographic Manual
- 2. Crampton, Jeremy W. Mapping: A Critical Introduction to Cartography and GIS. Wiley-Blackwell, 2010.
- 3. Field, Kenneth. Cartography. Esri Press, 2018.
- 4. Keates, J.S. Understanding Maps, Longman
- 5. Kimerling, Jon, et al. Map Use: Reading, Analysis, Interpretation. 8th ed., Esri Press, 2020.
- 6. Mishra, R.P. Fundamentals of Cartography. Concept Publishing Company, 1982.
- 7. Monkhouse, F.J., and H.R. Wilkinson. Maps and Diagrams. Methuen & Co., 1971.
- 8. Raisz, Erwin. General Cartography. McGraw-Hill Book Company Inc., 1962.
- 9. Ranganath, B. Cartography and Surveying, Vidhyanidhi Prakashana (Kannada & English)
- 10. Robinson, Arthur H., et al. Elements of Cartography. 6th ed., Wiley, 1995.
- 11. Sarkar, A. Practical Geography: A Systematic Approach. Orient BlackSwan, 2015.
- 12. Singh, R. L. Elements of Practical Geography. Student's Friends, Allahabad.
- 13. Slocum, Terry A., et al. *Thematic Cartography and Geovisualization*. 4th ed., Pearson, 2022.
- 14. Tyner, Judith A. Principles of Map Design. 2nd ed., Guilford Press, 2019.

Formative Assessment for Theory			
Assessment type	Marks		
Sessional Tests	10		
Seminars / Presentations / Assignment / Case study / Field-Study / Project work etc.	10		
Total	20 Marks		

Formative Assessment for Practical			
Assessment type Marks			
Sessional Tests-1/Lab Activity	05		
Case study / Field-Study / Project work etc.	05		
Total	10 Marks		

Program Name	BA / BSc in Geography		Semester	IV
Course Title	(Elective 1) Introduction to Indian Geo		n Geography	
Course Code:	ELGE 4.1		No. of Credits	2
Contact hours	28 Hours (2/week)		Duration of SEA/Exam	1.5 hours
Formative Assess	sment Marks 10		Summative Assessment Marks	40

- CO 1. Describe the physical features of India including relief, drainage, soils, forests, and climate.
- CO 2. *Differentiate* the types and distribution of major crops, irrigation methods, and evaluate the importance of river valley projects.
- CO 3. Classify mineral resources and examine the locational factors influencing the development of Indian industries
- CO 4. Interpret the development and distribution of transportation networks and major ports across India.
- CO 5. Assess the spatial patterns of population, urbanization, and the challenges related to urban growth

Syllabus	28 Hrs
Physical Setting - Location and Extent, Relief Features, Drainage System and Climate. Soil – Types and Distribution; Forest Resources – Types and Conservation; Animal Conservation.	7
Agriculture - Food Crops – Paddy and Wheat, Commercial Crops- Cotton and Sugarcane, Plantation Crops- Coffee and Tea; Major River Valley Projects – DVC, Bhakra Nangal, Hirakud; Irrigation Types and Distribution	7
Minerals and Industries - Iron ore, Manganese, Gold and Copper; Coal and Petroleum; Growth, Development and Locational Factors of Industries - Iron and Steel, Aluminium, Cotton, Sugar, Cement Industry.	7
Transportation and Population - Distribution of Roadways, Railways, Airways and Waterways; Major ports and Harbours; Growth, Density and Distribution of Population; Urbanisation and Problems.	7

- 1. Bhat, L. S. Regional Planning in India. Statistical Publishing Society, 2023.
- 2. Chand, Mahesh, and V. K. Puri. Regional Planning in India. Allied Publishers, 2020.
- 3. Dixit, R.S. Economic Geography: A Study of Resources. Rawat Publications, 2020.
- Gopal Singh. Map Work and Practical Geography. Surject Publications, 2022.
- 5. Goudar, M. A. Bharatada Krishi mattu Udyamashilathe, Navakarnataka Publications, 2019.
- 6. Hussain, Majid. Geography of India. McGraw-Hill Education, 2023.
- 7. Ranganath, Dr. Bharata Bhugola (Geography of India Kannada). Vidyanidhi Publications, Gadag, 2020.
- 8. Sharma, P. D. Ecology and Environment. Rastogi Publications, 2021.
- 9. Sharma, T.C. Economic and Commercial Geography of India. Vikas Publishing, 2018.
- 10. Shinde, R. S. Bharata Bhugola mattu Arthika Bhugola (Kannada). Sapna Book House, 2021.
- 11. Singh, Jagdish. India: A Comprehensive Geography. Gyanodaya Prakashan, 2022.
- 12. Singh, R. L. India: A Regional Geography. National Geographical Society of India, 2011.
- 13. Srivastava, H. N., and G. S. Tomar. Transport Geography. Discovery Publishing House, 2021.
- 14. Tiwari, R.C. Geography of India. Prayag Pustak Bhawan, 2022.
- 15. Tyagi, B.P. Geography of Resources. Jai Prakash Nath & Co., 2019.

Formative Assessment for Theory		
Assessment type	Marks	
Sessional Tests	5	
Seminars / Presentations / Assignment	5	
Total	10 Marks	

Program Name	BA / BSc in Geography		Semester	IV
Course Title	(Elective 2) Introduction to World Region		l Regional Geography	
Course Code:	ELGE 4.2		No. of Credits	2
Contact hours	hours 28 Hours (2/week)		Duration of SEA/Exam	1.5 hours
Formative Assess	sment Marks	10	Summative Assessment Marks	40

- CO 1. Identify and describe major physical features and climatic regions of the world using Koppen's classification.
- CO 2. Classify global vegetation types, soils, and agricultural patterns and analyse their spatial distribution.
- CO 3. Examine the factors influencing the distribution of industries and transportation routes across the globe.
- CO 4. Evaluate global population trends, distribution, urbanisation patterns, and associated challenges like slums.
- CO 5. Interpret global interlinkages of river systems, trade routes, and urban centres with reference to economic geography.

Syllabus	28 Hrs
Physical Setting - Major Mountains, Plateaux and Plains. Major Climatic Regions of the World, Based on Koppen's Classification. Major River Systems of the World.	7
Resources - Natural Vegetation - Types and Distribution; Soils – Types and Distribution; Agriculture - Influencing Factors, Types and Distribution. Major Crops and Distribution.	7
Industry and Transportation - Industrial Regions of the World - Factors of Industrial Concentration; Major Railway Routes, Waterways; Canals – Suez and Panama; Major Ports and Sea Routes.	7
Population and Urbanisation – Population - Growth, Distribution and Density; Problems of Population; Evolution of Cities; Major Metropolitan Cities and Megalopolis of the World. Urbanisation and Problems; Slums.	7

- 1. Jackson, Peter. Global Geography: Places and People in a Globalised World. Routledge, 2021.
- 2. Blij, Harm J. de, and Peter O. Muller. Geography: Realms, Regions and Concepts. 18th ed., Wiley, 2022.
- 3. Fellmann, Jerome D., et al. Human Geography: Landscapes of Human Activities. 14th ed., McGraw Hill, 2023.
- 4. Bradshaw, Michael, and Joseph Dymond. World Regional Geography: Global Patterns, Local Lives. 8th ed., McGraw Hill, 2022.
- 5. Clawson, Marion. World Agricultural Regions and Their Problems. The World Bank Publications, 2020.
- 6. Ramesh, D. S. Vishwa Bhugola mattu Pramukha Parisaragala Viniyoga. Sapna Book House, 2021. (Kannada)
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Formative Assessment for Theory			
Assessment type Marks			
Sessional Tests	5		
Seminars / Presentations / Assignment	5		
Total	10 Marks		