

UNIVERSITY OF MYSORE

Estd. 1916

Vishwavidyalaya Karyasoudha
Crawford Hall, Mysuru- 570 005

No.AC2(S)/151/2020-21

Dated:10.10.2022

Notification

Sub:- Syllabus and Examination Pattern of Geography (UG)
(III & IV Semester) with effective from the Academic year
2022-23 as per NEP-2020.

- Ref:-**
1. Decision of Board of Studies in of Geography (UG)
Meeting held on 04-06-2022.
 2. Decision of the Faculty of Science & Technology Meeting
held on 15-09-2022.
 3. Decision of the Academic Council meeting held on 23-09-2022.

The Board of Studies in Geography (UG) which met on 04-06-2022 has recommended & approved the syllabus and pattern of Examination of Geography Course (III & IV Semester) with effective from the Academic year 2022-23 as per NEP -2020.

The Faculty of Science & Technology and Academic Council at their meetings held on 15-09-2022 and 23-09-2022 respectively has also approved the above said syllabus and hence it is hereby notified.

The syllabus and Examination pattern is annexed herewith and the contents may be downloaded from the University Website i.e., www.uni-mysore.ac.in.

Draft Approved by the Registrar


Deputy Registrar (Academic)
Deputy Registrar (Academic)

 **University of Mysore**
Mysore-570 005

To:-

1. All the Principal of affiliated Colleges of University of Mysore, Mysore.
2. The Registrar (Evaluation), University of Mysore, Mysuru.
3. The Chairman, BOS/DOS, in Geography, Manasagangothri, Mysore.
4. The Dean, Faculty of Science & Technology, DoS in Earth Science, MGM.
5. The Director, Distance Education Programme, Moulya Bhavan, Manasagangothri, Mysuru.
6. The Director, PMEB, Manasagangothri, Mysore.
7. Director, College Development Council , Manasagangothri, Mysore.
8. The Deputy Registrar/Assistant Registrar/Superintendent, Administrative Branch and Examination Branch, University of Mysore, Mysuru.
9. The PA to Vice-Chancellor/ Registrar/ Registrar (Evaluation), University of Mysore, Mysuru.
10. Office Copy.

University of Mysore
B.A. / B.Sc. (Geography) Degree
(Basic / Honours)
Scheme & Syllabus - NEP-2020
Second Year

Semester	Course code	Course title	Teaching hours	Hours / week	Examination Pattern- Max & min marks/ paper		Duration of Examination in Hrs	Total Marks	Credits
					Exam	IA			
III	DSC T 3.1	Fundamentals of Human Geography	56	4	60	40	2	100	4
	DSC P 3.1	Fundamental Techniques in Human Geography	56	4	25	25	2	50	2
	OE 3.1	Geography of India	42	3	60	40	2	100	3
	OE 3.2	Application of GIS and Remote sensing	42	3	60	40	2	100	3

semester	Course code	Course title	Teaching hours	Hours / week	Examination Pattern- Max & min marks/ paper		Duration of Examination in Hrs	Total Marks	Credits
					Exam	IA			
IV	DSC T 4.1	India: Resources and Sustainability	56	4	60	40	2	100	4
	DSC P 4.1	Representation of Indian Geographical features and resources.	56	4	25	25	2	50	2
	OE 4.1	Geography of Karnataka	42	3	60	40	2	100	3
	OE 4.2	Population and settlement Geography	42	3	60	40	2	100	3

B.A. / B.Sc. honors Programme

Semester III

Title of the Course: Fundamentals of Human Geography

CODE: DSC T 3.1

Number of Theory Credits	Number of lecture hours/semester
4	56
Course Outcomes: <ol style="list-style-type: none">1. Students will earn Basic concepts, approaches and development of Human Geography.2. Learn how human interact with environmental components of the world and also learn how human beings and environment mutually influences one another.3. Students will be familiarized with cultural and economic processes at different scales such as globalization, trade, cultural and social activities.4. The student will be able differentiate between geography and human geography.5. Understand population dynamics and human settlements.	
Course Objectives: <p>This course aims to</p> <ol style="list-style-type: none">1. Understand the basics concepts and approaches of human geography2. Study the nature and distribution of cultural elements and their process and to appraise the mutual interaction between People and places.3. To examine the population attributes and dynamic nature of them.4. To study different types of economic activities and their adaptation with the environment and their impact on the development of the regions.	
Module –1: Introduction to Human Geography	
	14
1.1 Nature and scope, Development and Branches of Human Geography, 1.2 Themes in Geography: Location, Place, Human-Environment Interaction, Movement and Region. 1.3 Man- Environment Relation: Environmental Determinism and Possiblism, Neo-Determinism (stop and go determinism) 1.4 Approaches to Human geography: Exploration and Descriptive Approach, Regional Approach, Areal Differentiation Approach, Spatial organization Approach. Modern Approaches: Welfare or Humanistic Approach, Radical Approach, Behavioral Approach, Post Modernism in geography.	
Module –2: Cultural patterns and Processes	
	14
2.1 Concept of culture, Material and Non-material Culture, Cultural traits and Cultural regions. 2.2 Meaning and Definition of races, Classification of races, Main characteristics (traits) and Broad racial groups of the world and their distribution. 2.3 Languages: Classification and Distribution of languages. 2.4 Religion: Types, Classification, and Distribution of religions: Hinduism, Christianity, Islam and Buddhism. Assignment: Each student is expected to prepare a brief report on the cultural composition of their own locality/ place/ village/ ward/town or neighborhoods through field investigation and also can use published data.	

Module –3: Population and Settlements	14
<p>3.1 Distribution and Growth of Population; Factors affecting population Distribution.</p> <p>3.2 Density of Population: Meaning and Types; Arithmetic Density, Physiological Density and Agricultural density, Regional Distribution of Density of Population; Carrying capacity and Sustainability,</p> <p>3.3 Concept of Settlements, Origin and evolution of Human settlements, Factors of settlements, origin and distribution, types and pattern of settlements,</p> <p>3.4 Rural and Urban settlements, Trends and Patterns of World Urbanization.</p> <p>Field Activity: Students should study and identify the factors influencing on the origin and growth of the settlement and each student is expected to identify patterns of settlements by visiting nearest settlement. The students are advised to carry topographical map of the place during field visit.</p>	
Module–4: Economic Activities	14
<p>4.1 Concept and Classification of Economic activities; Factors affecting Economic Activities.</p> <p>4.2 Primary Economic Activities – Agriculture, Types: Primitive Subsistence, Intensive Subsistence, Plantation Agriculture, Extensive Commercial grain Cultivation, Mixed Farming, Dairy Farming.</p> <p>4.3 Secondary Activities: Manufacturing, Classification – 1. Based on size – Small Scale and Large scale.2. Based on Raw Material – Agro-based, Mineral based, Chemical Based and Forest based. Industrial Regions of the world.</p> <p>4.4 Tertiary Activities: Types: Trade and Commerce, Retail Trading Services, Wholesale Trading, Transport and communications: Factors, Communication Services – Telecommunication. Services: Informal and Non formal sector. Information technology and service.</p> <p>Case Study: Students have to visit a village/a town nearby and observe the economic activities and understand different classes and identify the most dominant economic activities..</p>	

References

- 1) De Blij H. J., Alexander B Murphy, Erin H Fouberg, (2006) Human Geography: people, Place and culture, Abe books Published by Wiley ISBN 10: 0471679518 / ISBN 13: 9780471679516
- 2) Sarah Bendarz, Mark Bockenbauer, Fredrik Hiebert, 2020, Human Geography: A Spatial Perspective; NatlGeographics School Pub Inc.
- 3) Majid Hussein 2018 Human Geography, Rawat Publication (Fifth Edition)
- 4) David Dorrell, Joesph Henderson, Todd Lindley and Georgeta Cannor (2019) Introduction to Human Geography, University System of Georgia, <https://ung.edu/university-press/books/introduction-to-human-geography.php>
- 5) Hartshorne, T.A., & Alexander, J.W. (2010). Economic Geography. New Delhi: PHI Learning.
- 6) Nellson, Gabler Vining (1995) Human Geography, People, Cultures and Landscapes
- 7) Ranganath (2002) Principles of Human Geography (Kannada Version) Vidyanidhi, Gadag
- 8) Rubenstein J.M (2016). An Introduction to Human Geography, Macmillan Publishing Company, New York
- 9) Knox, P., Agnew, J., & McCarthy, L. (2008). The Geography of the World Economy. London: HodderArnold.
- 10) Lloyd, P., & Dicken, B. (1972). Location in Space: A Theoretical Approach to Economic

Geography. New York: Harper and Row.

- 11) Siddhartha, K. (2000). Economic Geography: Theories, Process and Patterns, New Delhi: Kishore Publications.
- 12) Smith, D.M. (1971). Industrial Location: An Economic Geographical Analysis, New York: John Wiley and Sons.

B.A./ B.Sc. honors Programme

Semester III

Title of the Course: Fundamental Techniques in Human Geography, CODE: DSC P 3.1

Number of Theory Credits	Number of lecture hours / semester
2	56
<p>Course Outcomes:</p> <ol style="list-style-type: none"> 1. Students will learn the geographical concepts such as scale, map, projections, distance, direction, and learn how these features are used in map production and area visualization. 2. Students will be familiarized with different methods of computing population growth, understanding the techniques of nearest neighbor analysis. 3. The student will be able to understand the factors affecting settlement development and economic activities therein. 	
<p>Course Objectives:</p> <p>This course aims to</p> <ol style="list-style-type: none"> 1. Understand the application of cartography in mapping of population 2. Study population growth models 3. Introduce how economic, cultural, and trade activities impact on the development of the settlement 	

Content of the Practical Course		
Exercise 1	<p>Maps: Definition, Elements of map: scale, direction, map projection, conventional signs and symbols, legend,</p> <p>Types of map: 1. Based on scale: A. large scale: cadastral maps, Topographic maps, B. Small scale: wall maps, atlas maps, maps</p> <p>2. Based on purpose and content: Physical Maps, Political Maps, Thematic Maps. Uses of Maps.</p>	08
Exercise 2	<p>Map Scales: Definition of Scale, Methods of representing Scales: Statement Method, Graphical Method, Ratio Method (R F).</p>	08
Exercise 3	<p>Conversion of Scale: Verbal to RF, RF to Verbal, Verbal to Graphical.</p> <p>Exercises on Measuring Distances on Map and converting map distance to ground distance.</p>	08
Exercise 4 and 5	<p>Map Projections: Meaning and Purpose, Latitudes and Longitudes, Classification of Map Projections and their general properties: Conical Projections, Cylindrical Projections, Zenithal Projections. UTM Projections. Choice of Map Projection.</p>	08
Exercise 6	<p>Drawing of conical projection with One Std. Parallel and Two Std. Parallels,</p>	08

Exercise 7	Drawing of Cylindrical Equal Area Projection.	06
Exercise 8	Drawing of Zenithal Polar Gnomonic Projection.	06
Exercise 9	Introduction to UTM Projection, uses and importance.	4

References:

1. Dr.L.R.Singh (2010), Fundamentals Of Practical Geography, Sharda Pustak Bhavan, Allahabad, India.
2. Pijushkanti Saha, Partha Basu (2013) Advanced Practical Geography
3. Ashis Sarkar (2015) Practical Geography: A Systematic Approach, Orient Black swan Pvt Ltd.
4. Rana Pb Singh Rl Singh(2018), Elements of Practical Geography. Kalyani Publishers
5. Dent B.D., 1999. Cartography: Thematic Map Design, (Vol. 1), McGraw Hill
6. Gupta K.K and Tyagi V.C., 1992. Working with Maps, Survey of India, DST, New Delhi.
7. Mishra R.P. and Ramesh A., 1989. Fundamentals of Cartography, Concept Publishing.
8. Monk house, F.J. and Wilkinson, H.R., 1971. Maps and Diagrams. Methuen and Co. Ltd., London. K.
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B.A. /B.Sc. Honors Programme

III Semester (Open Elective)

Title of the Paper: Geography of India

Code:OE3.1

Number of Theory Credits	Number of lecture hours / semester
3	42
Course Outcomes:	
<ol style="list-style-type: none"> 1. This is intended to ensure the Students of other discipline to gain geographical knowledge about India. 2. Prepare them to think geographically about our nation and to enhance the pride of our Nation. 	
Course Objectives:	
<p>After the completion of this course the Students are expected to</p> <ol style="list-style-type: none"> 1. Have an understanding of the Physical, ecological, economic, demographic and cultural characteristics of our nation. 2. By that they can apply geographical knowledge and skills in deeper understanding of the Core Subjects. 	

Module	Content	Hours
Module -1	Physical Bases	12
	1.1 Location, Size and Extent, Political Divisions 1.2 Relief Features-Northern Mountains, Northern Great Plain, The Peninsular Plateau and Coastal Plain and Islands 1.3 Climate: Seasons – Summer Season, South-West Monsoon, Retreating Monsoon Season, Winter Season, 1.4 Drainage system- Rivers of North India, Rivers of South India, 1.5 Vegetation - Types and Distribution- Afforestation programs	
Module – 2	Irrigation and Agriculture	10
	2.1 Irrigation: Need for Irrigation and Types 2.2 Agriculture: Significance and Types- Intensive and Extensive Farming, Subsistence and Mixed Farming 2.3 Major Crops- Production and Distribution : Rice, Wheat Cotton , Sugar cane and Tea 2.4 Development of Agriculture- Green Revolution	
Module - 3	Minerals, Power and Industries	10
	3.1 Mineral and Power Resources-Types and Significance 3.2 Production and Distribution: Iron Ore, Manganese 3.3 Production and Distribution: Coal, Petroleum, Hydro Electricity 3.4 Major industries- Iron and Steel, Cotton textile, Sugar. 3.5 Major industrial regions of India 3.6 Special Economic Zones	
Module -4	Transport, Communication and Human Population	10
	4.1 Roadways, Railways, Airways Waterways. 4.2 Important Ports: Calcutta, Chennai, Mumbai and New Mangalore. 4.3 Indian Space Programme. 4.4 Growth of Population 4.5 Distribution and Density of Population 4.6 Population Composition – Sex Ratio, Literacy 4.7 Problems of Population	
	Total	42

References:

1. Gopal Singh : Geography of India, Atmarama and Sons, New Delhi.
2. Hussain M,2014, Geography of India, Tata McGraw-Hill Education- New Delhi
3. ICAR: Cropping pattern in India,1974.
4. Mathur,S.M.: Physical Geology of India, NBT1991.
5. Ranganath : Regional and economic Geography of India (Kan.Ver) VidyanidhiPrakashana, Gadag,2020.
6. Mallppa P : Economic Geography of India (Kan. Ver.) K V Lalitha Publishers

7. Ranjit Thirtha, 1996, Geography of India, Raniat, Jaipur.
8. Khullar D.R.2000, India a Comprehensive Geography ,Kalyani Publishers,Ludhiana.
9. Sharma T C,2012, Economic Geography of India, Rawath Publications, Delhi
10. Tiwari R.C 2006, Geography of India, Prayag Pustak Bhawan, Allahabad,
11. Pritivish Nag &Smita Sengupta, 1992, Geography of India, Concept Publishing Company, New Delhi.
12. Ranganatha, 2007, Geography of India, Vidhyanidhi Prakashan, Station Road, Gadag-01.
13. Phani Deka &Abani Bhaga bati,1992, Geography: Economic and Regional, Wiley Eastern Limited,AnsariRaod, Daryaganj, N. Delhi-01.

Websites:

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2. <https://agricoop.nic.in/en>
3. <https://www.resourcedata.org/dataset/rgi-ministry-of-minerals-energy-and-water-resources>
4. <https://dpiit.gov.in/>
5. <http://rfrfoundation.org/nadi-ko-jano/>
6. <https://jalshakti-ddws.gov.in/>

B.A. /B.Sc. Honors Programme

III Semester (Open Elective)

Title of the course: Application of GIS and Remote sensing OE.3.2 Credits: 3

Number of Theory Credits	Number of lecture hours / semester	
3	42	
Course Outcomes:		
<ol style="list-style-type: none"> 1. This is intended to ensure the Students of other discipline should understand fundamentals of remote sensing and Geographical Information system. 2. prepare them to think geographically and Apply this knowledge to their respective field of enquiry for spatial and other kinds of planning. 		
Course Objectives:		
After the completion of this course the Students are expected to <ol style="list-style-type: none"> 1. Have an understanding of the Geo-spatial tools and their significance and utilization. 2. Utilize different tools and techniques of remote sensing and GIS for addressing various problems which are both natural and societal in nature. 3. By that they can apply geographical knowledge and skills in deeper understanding of the Core Subjects. 		
Module	Content	Hours
Module - 1	Remote Sensing; Concept, Definition, Evolution of Remote Sensing, Process of Remote sensing, EMR; Wave length, Frequency, Electromagnetic Spectrum; Bands, Atmospheric window, Interaction of EMR with atmosphere and surface. Spectral signature.	12
Module - 2	Remote Sensing Platforms, Orbit, Active and Passive Remote Sensing, Indian remote sensing satellites and launch vehicle's,	10

	Application of Remote Sensing in Agriculture, Disaster management, Urban studies, Coastal management and EIA.	
Module - 3	Geographic information System; Definition, Development of GIS, Components of GIS, Data types; Spatial and Non-spatial data, Raster and Vector data models, Data Sources, errors, Data input methods; Manual and Automated.	10
Module 4	Data Analysis; Buffer Analysis and its applications, Overlay functions, Query, Network Analysis, GIS Applications in urban monitoring & planning, Disaster Mitigation, Forestry, Wetland monitoring.	10

References:

1. Lilles and Thomas M. & Kiefer Ralph: Remote Sensing and Image Interpretation Third Edition John Wiley
2. Campbell John B.: Introduction to Remote Sensing Taylor & Francis
3. Floyd F. Sabins : Remote Sensing and Principles and Image Interpretation
4. Manual of Remote Sensing: American Society of Photogrammetry and Remote Sensing.
5. George Joseph: Fundamentals of Remote Sensing; Universities Press India Pvt Ltd, Hyderabad, India
6. Editors: John D. Bossler; John R. Jensen; Robert B. McMaster; Chris Rizos, 2001. Manual of Geospatial Science and Technology, November 2001, Vol 1 Part I and II.
7. Paul M. Mather, 1999. Computer Processing of Remotely sensed Images: An Introduction. John Wiley
8. Aronoff, S. (1991). Geographic Information Systems: A Management Perspective, WDL Publications, Ottawa, Canada.
9. Chang, Kang-Tsung (2006). Introduction to geographic information systems. Boston: McGraw-Hill Higher Education.
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11. Bernhardsen, T. (2002). Geographic information systems: an introduction. John Wiley & Sons.
12. Ian Heywood, Sarah Cornelius and Steve Carver (2010). An introduction to geographical information systems. Prentice Hall - Pearson Education limited.
13. Chang, Kang-tsung (2002). Introduction to Geographic Information Systems, McGraw-Hill Companies, Inc
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15. The ESRI Guide to GIS Analysis, by Andy Mitchell, ESRI Press, 1999, 188 pp.

B.A./B.Sc. honors programme

Semester IV

Title of the Course: India- Resources and Sustainability

CODE: DSC 4.1

Number of Theory Credits	Number of lecture hours / semester
4	56
Course Outcomes: <ol style="list-style-type: none">1. Students will learn about the physical setting of India.2. Students will be familiarized with the water and Agricultural Resources of India and they will understand the importance of these resources in the national development and prosperity.3. The student will be able understand the factors affecting, location and distribution of Industries and different modes of Transport.	
Course Objectives: <p>This course aims to</p> <ol style="list-style-type: none">1. Understand the physical setting of India.2. Study water and agricultural resources of India.3. Study the nature of transport and communication, Industries and population growth.4. Introduce how economic, cultural, and trade activities impact on the development	
Module -1 Physical Setting:	
	14
<ol style="list-style-type: none">1.1 Location, Size and Extent. Major Physiographic Regions - Northern Mountains, Northern Great Plains, Peninsular Plateau and Coastal Plains and Islands) and their Characteristics;1.2 Climate: Seasonal Weather Characteristics, Climatic Zones. Mechanism and Characteristics of Indian Monsoons.1.3 Tropical Cyclones and Western Disturbances.1.4 Floods and Droughts1.5 Drainage System.1.6 Soil: Types, Erosion and Conservation.1.7 Vegetation: Types, Distribution, Afforestation programs, National Parks, Wildlife Sanctuaries, and Biosphere reserves.	
Module -2 Water and Agricultural Resources:	
	14
<ol style="list-style-type: none">2.1 Water resources of India, Surface and Groundwater, Water Demand and Utilization.2.2 Irrigation: Sources, Types and Intensity. Issues and Challenges: Water Resources Scarcity, Water Conservation and Management.2.3 Watershed Management, Rainwater Harvesting, Recycle and Reuse of water. Interlinking of Rivers,2.4 National Water Policies, National Water Mission, Jalashakti	

	<p>Abhiyaan. Command Area Development and Water Management. Central Water Commission and Water Tribunal and their role.</p> <p>2.5 Agriculture: Land Use and Cropping Pattern – Meaning and Concepts, Land Use and Cropping Pattern in India, Agro-climatic Regions, Green Revolution – Causes and Effects, Hunger Index and Malnutrition; Food security and right to food to achieve Zero hunger and Good Health and Wellbeing..</p>	
Module -3 Industries, Transportation and Communication:		14
	<p>3.1 Locational factors of industries, Major Industrial Regions and their characteristics,</p> <p>3.2 Classification of Industries: Agro-based, Mineral-based, Forest-based and Animal-based industries.</p> <p>3.3 Special Economic Zones: Industrial / Economic Corridor.</p> <p>3.4 Transport & Communication: Significance, Growth and Development – Road ways, Railways, Waterways, Airways and Pipeline Networks and their Complementary and Competition.</p> <p>3.5 Communication: Means of Communication and their Significance</p> <p>3.6 Assignment: Selecting a region students have to study the locational factors nearby industry and prepare a report.</p>	
Module -4 Human Resources:		14
	<p>4.1 Growth, Distribution and Density of Population.</p> <p>4.2 Composition of Population: Age, Sex, Rural-Urban Population Composition.</p> <p>4.3 Migration: Meaning, Factors, Types, Causes and Consequences.</p> <p>4.4 Human Development in India: Measures, Levels of Development based on HDI</p> <p>4.5 Field Study: Selecting a region / district students have to examine the levels of Human Development using HDI and prepare a report.</p>	

References:

1. Majid Husain (2020) Geography of India, McGraw Hill Publishers
2. R.C. Tiwari (2016) Geography of India, Provolika Publications, Allahabad
3. D.R.Khullar (2019) India: A Comprehensive Geography ,Kalyani Publishers
4. R.L.Singh (1993) India: A Regional Geography, National Geographical Society of India, New Delhi.
5. Dr Deep Shikha (2016) Geography of India - A Text Book;
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7. Sharma TC & Coutinho O (2005) : Economic and Commercial geography of India, Vikas Publishing House Ltd., New Delhi-14
8. Pritivish Nag & Smita Sengupta (1992) Geography of India, Concept Publishing Company, New Delhi.
9. Ranganath (2007) Geography of India, Vidhyanidhi Prakashan, Station Road, Gadag-01

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B.A./B.Sc. honors Programme

Semester IV

Title of the Course: Representation of Indian Geographical features and Resources.
Code: DSC P-4.1

Number of Theory Credits	Number of lecture hours / semester
2	56
Course Outcomes:	
After the completion of this course, students should be able to	
<ol style="list-style-type: none"> 1. Understand holistically about the geography of India and plotting resources on Indian outline map. 2. Interpret and apply the concepts on resource distribution of India and related economic activities 3. Demonstrate the economic development through the connectivity of transport and communication. 	
Course Objectives:	
This course aims to	
<ol style="list-style-type: none"> 1. Understand the basics geographical setting of India 2. Study physiographic divisions with drainage, soil and vegetation of India. 3. Gets exact information regarding mechanism of monsoon and its impact. 	

Content of the Practical Course		
Ex.No.1	Mapping exercises on Indian outline Map: International Boundaries, Mountain peaks, Passes, Glaciers and important Physical Divisions of India, Rivers, National Biospheres and National Parks, Dams and Reservoirs, Lakes and Water Bodies, Islands, National Waterways, Ports and Harbours, National High ways, Important Airports, Industrial Corridors, Important Coastal Zones and Beaches, Ecologically Sensitive areas, Important industrial zones, Special Economic Zones, Resource centres and Mining, Cultural Regions, Tribal Areas. Note: Each student is expected to complete at least 3 mapping exercises from the above topics which should cover brief description on: Location (Latitude and longitude, state, district, place,) geographic/environmental/ecological/ political/ economic significance of the place/ location. Minimum 10 locations shall be involved in each exercise.	10
Ex.no.2 and 3,	Mapping Temperature and Rainfall Distribution of India / Karnataka using Isoleth method.	10
Ex.no.4 and 5	Mapping of Agro-climatic zones of India, Flood Prone and Drought Prone Areas,	8

Ex. No.6 and 7	Mapping of Cropping Pattern and Crop intensity of India/ Karnataka. Weaver's Method, Bhatia's Method. Calculation and mapping of Irrigation intensity.	10
Ex.no.8	Human Development Index: Concept, Calculation and Mapping	6
Ex.no.9	Gender Development Index: Concept, Calculation and Mapping	6
Ex.no.10	Human Poverty Index: Concept and Calculation and Mapping	6

Reference:

- 1) Hartshorne, T.A., & Alexander, J. W. (2010). Economic Geography. New Delhi: PHI Learning.
- 2) Knox, P., Agnew, J., & Mc Carthy, L. (2008). The Geography of the World Economy. London: Hodder Arnold.
- 3) Lloyd, P., & Dicken, B. (1972). Location in Space: A Theoretical Approach to Economic Geography. New York: Harper and Row.
- 4) Siddhartha, K. (2000). Economic Geography: Theories, Process and Patterns, New Delhi: Kishore Publications.
- 5) Smith, D.M. (1971). Industrial Location: An Economic Geographical Analysis, New York: John Wiley and Sons.

B.A. / B.Sc. Honors Programme
Semester IV (Open Elective)

Title of the Course : GEOGRAPHY OF KARNATAKA **Code: OE.4.1 Credits:3**

Number of Theory Credits	Number of lecture hours / semester
3	42
<p>Course Outcomes: After the completion of this course, students should be able to</p> <ol style="list-style-type: none"> 1. Understand the physical, economic and socio-demographic aspects of Karnataka state in a broader sense. 2. Understand the resource base of the state i.e., forests, soils, minerals, water and climate, and its impact on the socio-demographic and economic development of different regions of Karnataka in terms of agriculture, industries, transportation and other fields of human activities. 3. Understand the development of irrigational projects and industrial projects and special Economic zones (SEZ's) 	
<p>Course Objectives: This course aims to</p> <ol style="list-style-type: none"> 1. Understand the site and situation of Karnataka 2. Intellectual connect to the resources and economic activities of Karnataka 3. Assess demographic composition of Karnataka state 	

Module	Content	Hours
Module -1	Physical Background	12
	1.1 Location, size and Administrative divisions. 1.2 Physiographic Divisions: Coastal Regions, Malnad Regions and Maidan Regions. 1.3 Weather and Climate: Seasons, Distribution of Rainfall and Temperature, Climatic regions, Drought prone areas in Karnataka. 1.4 Drainage Systems: Major Drainage Systems in Karnataka. East flowing rivers and West flowing rivers. 1.5 Natural Vegetation: Types of vegetation, Distribution of forests in Karnataka, Protection and Conservations. Reserve Forests and Protected Forests in Karnataka, National Parks and Bird Sanctuaries in Karnataka.	
Module -2	Soil, irrigation and Agriculture:	10
	2.1 Soil: Types and Distribution, Regional Issues of Soil Quality and Management. 2.2 Water Resources: Distribution of Water Resources, Irrigation – Sources of irrigation, Multipurpose River Valley Projects. 2.3 River Water Disputes with the neighbouring states. 2.4 Agriculture regions of Karnataka. Major Food Crops – Paddy, Ragi, Maize, Pulses. 2.5 Commercial Corps – Cotton, Sugarcane, Tobacco, Coffee, Spices, 2.6 Livestock and Fishing. 2.7 Assignment: Students need to visit local fields and get to know how soil conservation plans are prepared and submit report	
Module - 3	Minerals, Energy and Manufacturing:	10
	3.1 Major Mineral resources of Karnataka and their Regionalization. Iron ore, Manganese, Gold, Bauxite 3.2 Energy Resources: Types and their Distributions. Conventional and Non-Conventional Sources. 3.3 Industries: Textile Industries, Iron and Steel Industries, Sugar Industries. Industrial Regions and Special Economic Zones of Karnataka.,	
Module – 4 Transport, Information & Communication Technology and Population		10
	4.1 Transportation: Types of Transportation, Distribution of Transportation. 4.2 Growth and Distribution of Information Technology in Karnataka. 4.3 Population Growth, Distribution and Density of Population. Population Composition – Sex Ratio, Literacy. Human Development in Karnataka (HDI)	

Reference:

1. Ranganath (2015), Geography of Karnataka, Publisher: Mysore Book House

2. S.S.Nanjannavar (2016), Geography of Karnataka, Prabhu publications
3. R. N. Tikka (2002), Physical Geography
4. Misra R.P (1969) Geography of Mysore State
5. Sarmah Dipak (2019), Forest of Karnataka-A Paronomic View, Notion Press
6. Director, Census Reports Published by Govt. of Karnataka
7. Karnataka State Gazetteer Volume- I & II

Websites:

1. <https://ksrsac.karnataka.gov.in/>
2. <https://ksdma.karnataka.gov.in/english>
3. <https://raitamitra.karnataka.gov.in/english>
4. <https://www.karnatakaturism.org/tourism-department/>

**BA/BSc Honors Programme
Semester IV (Open Elective)**

Title of the course: Population and Settlement Geography

Code: OE.4.2 Credits: 3

Number of Theory Credits	Number of lecture hours / semester	
3	42	
<p>Course Outcomes: After the completion of this course, students should be able to</p> <ol style="list-style-type: none"> 1. Understand the concepts of both Population and Settlement geography. 2. Appreciate the man environment interplay which are expressed in different kinds and patterns in the distribution and density of population and Human settlements over space. 3. Understand the Demographic dynamics like birth, Death and Migration of Population and its relation with settlement dynamics like settlement size, types and rural urban settlements and its issues. 		
<p>Course Objectives: This course aims to</p> <ol style="list-style-type: none"> 1. Introduce the basic concepts of Population Geography to the students. 2. Introduce the basic concepts of Settlement Geography to the students. 3. Bring the significance of Environment and society on Population dynamics and Mobility. 4. Critically examine the nature of man-environment relation and interaction with reference to human settlement types and patterns. 		
Module	Content	Hours
Module -1	Population Geography -	12
	<ol style="list-style-type: none"> 1.1 Meaning, Definitions, Scope and nature of population geography 1.2 Global Population size and growth, Malthus Theory, Demographic Transition Theory 1.3 Over, Under and Optimum Population 1.4 Population Policies in the world – Social Well being, Quality of Life 	

Module -2	Population Dynamics	10
	2.1 Fertility – Measures and Distribution 2.2 Mortality – Measures and Distribution 2.3 Migration – Types, Causes and Consequences	
Module -3	Settlement Geography	10
	3.1 Meaning, Definitions, nature and importance of settlement geography, 3.2 Origin of settlement, influencing factors 3.3 Site and situation of settlement – Stable and Unstable settlement	
Module -4	Classification of Settlements- Rural and Urban Settlements	10
	4.1. Rural Settlement – Types, Pattern, Functions 4.2. Rural-Urban Continuum and Fringe 4.3. Urban Settlement - Definition of urban place, Hierarchy, 4.4. Functional classification of towns, Concept of Urban morphology. 4.5. Primate City, Rank Size Rule	

References:

1. Alan Bowman and Andrew Wilson (2011), Settlement, Urbanization, and Population, Oxford University Press, UK.
2. Chandna R.C (2011), Geography of Population, Kalyani publishers, Bangalore.
3. Izzi Howell (2019), Population and Settlement Geography (Geographics), Franklin Watts, UK.
4. John Pallister (2004), GCSE Geography: Human - Population and Settlement, Hodder Education Group, UK.
5. Majid Husain (2011) Human Geography, Rawat Publication, Jaipur.
6. Prithvish Nag, Debnath (2021), Population Geography, BharatiPrakashan, Bangalore.
7. Rama Yagya Singh (1994), Geography of Settlement, Rawat Publications, Jaipur
8. Sumita Ghosh (1998), Introduction to Settlement Geography, Orient Longman, Hyderabad.