



KARNATAK UNIVERSITY, DHARWAD
ACADEMIC (S&T) SECTION
ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ
ವಿದ್ಯಾಮಂಡಳ (ಎಸ್&ಟಿ) ವಿಭಾಗ



Tele: 0836-2215224
e-mail: academic.st@kud.ac.in
Pavate Nagar, Dharwad-580003
ಪಾವಟೆ ನಗರ, ಧಾರವಾಡ - 580003

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'A' Grade 2014

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No. KU/Aca(S&T)/SSL-394A/2022-23/1056

Date: 23 SEP 2022

ಅಧಿಸೂಚನೆ

ವಿಷಯ: 2022-23ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಿಂದ ಎಲ್ಲ ಸ್ನಾತಕ ಕೋರ್ಸುಗಳಿಗೆ 3 ಮತ್ತು 4ನೇ ಸೆಮೆಸ್ಟರ್
NEP-2020 ಮಾದರಿಯ ಪಠ್ಯಕ್ರಮವನ್ನು ಅಳವಡಿಸಿರುವ ಕುರಿತು.

- ಉಲ್ಲೇಖ: 1. ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿಗಳು(ವಿಶ್ವವಿದ್ಯಾಲಯ 1) ಉನ್ನತ ಶಿಕ್ಷಣ ಇಲಾಖೆ ಇವರ
ಆದೇಶ ಸಂಖ್ಯೆ: ಇಡಿ 260 ಯುಎನ್‌ಇ 2019(ಭಾಗ-1), ದಿ:7.8.2021.
2. ವಿಜ್ಞಾನ & ತಂತ್ರಜ್ಞಾನ ನಿಖಾಯ ಸಭೆಯ ಠರಾವುಗಳ ದಿನಾಂಕ: 06.09.2022
3. ವಿಶೇಷ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸಭೆಯ ನಿರ್ಣಯ ಸಂ. 01, ದಿನಾಂಕ: 17.09.2022
4. ಮಾನ್ಯ ಕುಲಪತಿಗಳ ಆದೇಶ ದಿನಾಂಕ: 22-09-2022

ಮೇಲ್ಕಾಣಿಸಿದ ವಿಷಯ ಹಾಗೂ ಉಲ್ಲೇಖಗಳನ್ವಯ ಮಾನ್ಯ ಕುಲಪತಿಗಳ ಆದೇಶದ ಮೇರೆಗೆ, 2022-23ನೇ
ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಿಂದ ಅನ್ವಯವಾಗುವಂತೆ, ವಿಜ್ಞಾನ & ತಂತ್ರಜ್ಞಾನ ನಿಖಾಯದ ಎಲ್ಲ ಸ್ನಾತಕ ಕೋರ್ಸುಗಳ ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿ
(NEP)-2020 ರಂತೆ 3 ಮತ್ತು 4ನೇ ಸೆಮೆಸ್ಟರ್‌ಗಳಿಗಾಗಿ ವಿಶೇಷ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸಭೆಯ ಅನುಮೋದಿತ
ಪಠ್ಯಕ್ರಮಗಳನ್ನು ಪ್ರಕಟಪಡಿಸಿದ್ದು, ಸದರ ಪಠ್ಯಕ್ರಮಗಳನ್ನು ಕ.ವಿ.ವಿ. www.kud.ac.in ಅಂತರ್ಜಾಲದಿಂದ ಡೌನ್‌ಲೋಡ
ಮಾಡಿಕೊಳ್ಳಲು ಸೂಚಿಸುತ್ತಾ, ವಿದ್ಯಾರ್ಥಿಗಳು ಹಾಗೂ ಸಂಬಂಧಿಸಿದ ಎಲ್ಲ ಬೋಧಕರ ಗಮನಕ್ಕೆ ತಂದು ಅದರಂತೆ
ಕಾರ್ಯಪ್ರವೃತ್ತರಾಗಲು ಕವಿವಿ ಅಧೀನದ / ಸಂಲಗ್ನ ಮಹಾವಿದ್ಯಾಲಯಗಳ ಪ್ರಾಚಾರ್ಯರುಗಳಿಗೆ ಸೂಚಿಸಲಾಗಿದೆ.

ಅಡಕ: ಮೇಲಿನಂತೆ

Kud - 2022/9/22
ಕುಲಸಚಿವರು.

ಗೆ,

ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಎಲ್ಲ ಅಧೀನ ಹಾಗೂ ಸಂಲಗ್ನ ಮಹಾವಿದ್ಯಾಲಯಗಳ
ಪ್ರಾಚಾರ್ಯರುಗಳಿಗೆ. (ಕ.ವಿ.ವಿ. ಅಂತರ್ಜಾಲ ಹಾಗೂ ಮಿಂಚಂಚೆ ಮೂಲಕ ಬಿತ್ತರಿಸಲಾಗುವುದು)

ಪ್ರತಿ:

1. ಕುಲಪತಿಗಳ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
2. ಕುಲಸಚಿವರ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
3. ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ) ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
4. ಅಧೀಕ್ಷಕರು, ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆ / ಗೌಪ್ಯ / ಜಿ.ಎ.ಡಿ. / ವಿದ್ಯಾಂಡಳ (ಪಿ.ಜಿ.ಪಿ.ಎಚ್.ಡಿ) ವಿಭಾಗ, ಸಂಬಂಧಿಸಿದ
ಕೋರ್ಸುಗಳ ವಿಭಾಗಗಳು ಪರೀಕ್ಷಾ ವಿಭಾಗ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
5. ನಿರ್ದೇಶಕರು, ಕಾಲೇಜು ಅಭಿವೃದ್ಧಿ / ವಿದ್ಯಾರ್ಥಿ ಕಲ್ಯಾಣ ವಿಭಾಗ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.

Syllabus for under Graduate Programme in GEOGRAPHY
 B. A. / B.Sc. (BASIC/ HONS) GEOGRAPHY, **2022-23**
 Particulars of the Semester wise Theory and Practical Papers and paper codes

Particulars of the Theory/ Practical / OE Papers and Code.

Semester	Type of Course & Code	Title of the Papers	Theory/ Practical	Credits
III	DSCC- T 3 033GEO011	Human Geography	Theory	04
	DSCC-P3 033GEO012	Techniques in Human Geography	Practical	02
	OEC 3 003GEO051	Geography of India	Theory	03
IV	DSC- T IV 033GEO011	Regional Geography of India	Theory	04
	DSCC-P4 033GEO012	Representations of Geographical Features of India	Practical	02
	OEC 4 003GEO051	Geography of Karnataka	Theory	03

Sem	Type of Course & Code	Theory/ Practical	Instructio nhour per week	Total hours of Syllabus / Sem	Duration of Exam	FA Marks	SA Marks	Total Marks	Credits
III	DSCC- T 3 033GEO011	Theory	04hrs	56	02 hrs	40	60	100	04
	DSCC-P3 033GEO012	Practical	04 hrs	52	03 hrs	25	25	50	02
	OEC 3 003GEO051	Theory	03 hrs	42	02 hrs	40	60	100	03
IV	DSC- T 4 033GEO011	Theory	04 hrs	56	02 hrs	40	60	100	04
	DSCC-P4 033GEO012	Practical	04 hrs	52	03 hrs	25	25	50	02
	OEC 4 003GEO051	Theory	03 hrs	42	02 hrs	40	60	100	03
Details of the other Semesters will be given later									

Name of Course (Subject): Geography

Programme Specific Outcome (PSO):

On completion of the 03/ 04 years Degree in Geography students will be able to:

- PSO 1:** Enrich the knowledge of understanding the relevant terms and concept of geography including definitions.
- PSO 2:** Enhanced the capability to explain the relevant principles, theories and models in geography.
- PSO 3:** Conceptual clarity about the relationship between the man and environment to understand the process, factors and impact.
- PSO 4:** Know the complex and interactive nature of physical and human environments and changing process.
- PSO 5:** Enhance the skills in Map Making and Cartographical Principles.
- PSO 6:** Use of Geographical data to identify the trends and patterns and demonstrate through the maps of spatio-temporal changes.
- PSO 7:** Demonstrate the skill of analysis of geographical information, evidences and cause and effects.
- PSO 8:** Trace the trends and process of changes of physical and cultural aspects.
- PSO 9:** Develop the consciousness of relevance of geography to understand and solving the contemporary environmental issues.
- PSO 10:** Exposer in the handling the spatial and non-spatial data through Remote Sensing and GIS.

B.A / B.Sc. Semester – III

Title of the Course: DSC. T- 3.Human Geography: 033GEO011

Semester	Type of Course & Code	Theory/ Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
III	DSC- T III 033GEO011	Theory	04	04	56 hrs	2hrs	40	60	100

Course Objectives:

1. To Understand the basic concepts of human geography.
2. To Study the population attributes and dynamic nature of it.
3. To Introduce economic, cultural, and trade activities and their impact on the regional development.

Course Outcomes: After the completion of this course, students will be able to:

- 1 To learn how human and physical components of the world interact.
- 2 To familiarized with economic processes such as globalization, trade and their impacts on economic, cultural and social activities.
- 3 To describe what geography and human geography are.
- 4 To Understand population dynamics and migration.

Content of Theory Course I	56Hrs
Unit –1: Introduction to Human Geography	14
<p>Chapter No. 1: Nature, scope and growth of human geography, Branches in human geography. Themes in Geography, man-environment debate in human Geography.</p> <p>Chapter No. 2: Approaches to man-environment relationship: Environmental Determinism and Possibilism, Neo-determinism (stop and go determinism).</p> <p>Chapter No. 3: Approaches to study human geography: Descriptive approach Regional approach, Areal Differentiation approach and spatial organization approach. Quantitative revolution and locational analysis. Welfare or Humanistic approach, Radical approach, Behavioral approach. Regional Synthesis.</p>	
Unit – 2 : Cultural Patterns and Process:	14
<p>Chapter No. 4. Concept of Culture, Material and Non-material culture Cultural Regions, cultural Traits and Complexes, cultural Hearths. Major cultural realms of the world.</p> <p>Chapter No. 5. Race: Characteristics and classification. Broad racial groups of the world and their distribution. Linguistic and ethnic diversity.</p> <p>Chapter No. 6. Major Religions and their Distribution: Hinduism, Christianity, Islam and Buddhism.</p> <p>Assignment: Students will have to select nearby area and study religions and their characteristics and submit the report.</p>	
Unit – 3: Human Economic Activities:	14
<p>Chapter No. 7. Primary Economic Activities. Agriculture: Primitive Subsistence, Intensive subsistence, Plantation Agriculture, Extensive Commercial grain cultivation, Mixed Farming, Dairy Farming. Forestry, fishing and mining.</p> <p>Chapter No. 8. Secondary Activities: Manufacturing – Cotton Textile and Iron & Steel. Concept of Manufacturing Region. Industrial Regions of the world. New Industrial Policy.</p> <p>Chapter No. 9. Tertiary Activities: Trade and commerce, Retail Trading services, wholesale trading. Trade balance and trade policy. Major tribes, tribal areas and their problems.</p>	
Unit – 4 : Population, Transport & Communication & Settlements:	14
<p>Chapter No. 10. Population: Resource Relationships and regional resource development. Transport and communications: Factors, Types and Distribution of Roads, Railway, airway and waterways. Services: Formal and Informal sector. Information technology.</p>	

Chapter No. 11. Urban Settlements: Origin and evolution, hierarchy, trends and patterns of urban settlements. Urban morphology. Concept of Primate City and rank size rule. Functional classification of towns, Rural-urban fringe.

Chapter No. 12. Problems and remedies of urbanization. Central Place theory Rural Settlements – types, patterns and factors influencing on distribution.

Field Study: Students have to study human resource development in local area and prepare a report.

References:

1. Dickens and Pitts (1963) Introduction to Human Geography,
2. Harm D. Blij (1992) Human and Economic Geography, Macmillan Publishing Company, New York
3. Hussain M (2003) Human Geography, Rawat Publications, Jaipur
4. Nellson, Gabler Vining (1995) Human Geography, People, Cultures and Landscapes
5. Ranganath (2002) Principles of Human Geography (Kannada Version) Vidyanidhi, Gadag
6. Rubenstein J.M (2016). An Introduction to Human Geography, Macmillan Publishing Company, New York
7. S.D. Maurya (2012), Human Geography, Pravalika Publications, Allahabad
8. L.R.Singh(2005), Fundamentals of Human Geography, Sharda Pustak Bhawan, Allahabad

Websites:

1. <https://www.indiaculture.nic.in/>
2. <https://dea.gov.in/>
3. <https://dpiit.gov.in/>
4. <https://www.mines.gov.in/>
5. <https://censusindia.gov.in/census.website/>

**B. A./ B.Sc./ (BASIC/ HONS) GEOGRAPHY
SEMESTER III**

Title of the Course: DSC.P- 3 Techniques in Human Geography: 033GEO012

Course No.	Type of Course & Code	Theory/ Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
Course-III	DSCC-P3 033GEO012	Practical	02	04	52 hrs	3hrs	25	25	50

Course Objectives:

1. To understand the basics concepts of human geography.
2. To study the population attributes and dynamic nature of it.
3. To introduce economic, cultural, and trade activities and their impact on the development to the region.

Course Outcomes: After the completion of this course, students will be able to:

- 1 To learn how human, physical, and environmental components of the world interact.
- 2 To familiarized with economic processes such as globalization, trade and their impacts on economic, cultural and social activities.
- 3 To describe geography and human geography in an effective manner.
- 4 To Understand population dynamics and migration.

Content of Practical Course	52 Hrs
Conduct all exercises with Goal, Procedure, devices, findings and diagram.	
Unit –1: Maps and Maps Scales:	
Exercise-1: Maps: Definition, Elements of maps (scale, direction, map projection, conventional signs and symbols, legend), Types of maps, Uses of maps.	06
Exercise-2: Map Scales: Definition and Types- Verbal Scale (VS), Representative Fraction (RF), Graphical Scale.	06
Exercise-3: Conversion of scale - VS into RF and RF into VS (Minimum 2 examples each), Exercise on measuring distance on map and converting map distance into ground distance.	06
Exercise-4: Field-based Activity: Students are to be prepared a report by reading of maps in the field and collection of data and its representation.	10
Unit – 2 : Map Projections:	
Exercise-5: Meaning and purpose of latitudes and longitude. Map Projections: Classification of map projections and their properties.	08

<p>Exercise-6: Construction of Cylindrical Projections - Cylindrical Equal Area Projection.</p> <p>Exercise-7: Construction of the Conical Projections - Conical Projection with one and two standard parallel.</p>	08
<p>Exercise-8: Construction of the Zenithal projections - Zenithal Polar Gnomonic Projection. Introduction to UTM Projection.</p>	08

References:

1. Dent B.D., 1999. Cartography: Thematic Map Design, (Vol. 1), McGraw Hill
2. Gupta K.K and Tyagi V.C., 1992. Working with Maps, Survey of India, DST, New Delhi.
3. Mishra R.P. and Ramesh A., 1989. Fundamentals of Cartography, Concept Publishing.
4. Monkhouse, F.J. and Wilkinson, H.R., 1971. Maps and Diagrams. Methuen and Co. Ltd., London. K.
5. Singh, R.L., 2005. Elements of Practical Geography. Kalyani Publishers, New Delhi. India.
6. Ramamurthy, K., 1982. Map Interpretation, Rex Printers, Madras.
7. Robinson A. ,1953. Elements of Cartography, John Wiley.
8. Sharma J. P., 2010. Prayogic Bhugol, Rastogi Publishers.
9. Singh R.L. and Singh R.P.B., 1999. Elements of Practical Geography, Kalyani Publishers.
10. Singh R.L., 1998. Prayogic Bhugol Rooprekha, Kalyani Publication.
11. Singh, G., 2005. Map work and practical geography. Vikas Publishing House Pvt. Ltd., New Delhi
12. Singh, L.R. and Singh, R., 1973. Map work and practical geography, Central Book Allahabad
13. Siddhartha, K., 2006. Geography through maps, Kisalaya Publications Pvt. Ltd, Delhi
14. Singh, R.L., and Dutt, P.K., 1968. Elements of practical geography, Students' Friends, Allahabad
15. Steers, J.A., 1970. An Introduction to Study of Map Projections. University of London Press Ltd., London.

B. A./ B.Sc./ (BASIC/ HONS) GEOGRAPHY

SEMESTER III

Title of the Course: OE 3 Geography of India: 003GEO051

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
OEC-III	OEC 3 003GEO051	Theory	03	03	42 hrs	2hrs	40	60	100

Course Objectives:

1. To understand the basics geographical setting of India.
2. To study physiographic divisions with drainage, soil and vegetation of India.
3. To get exact information regarding mechanism of monsoon and its impact.

Course Outcomes: After the completion of this course, students will be able :

- 1 To describe the holistic approach about the geography of India
- 2 To interpret and apply the concepts on resource distribution of India and related economic activities.
- 3 To demonstrate the economic development through the connectivity of transport and communication.

Content of OE 3 Theory Course	42Hrs
Unit –1: Physical Setting:	10
Chapter No. 1: Location and Extension of India, Physiographic divisions, Chapter No. 2: Climate, Drainage system, Soil Types and its distribution. Chapter No. 3: Natural Vegetation, Water Disputes: River Brahmaputra and Indus. Geopolitical Issues: Indo-china, Indo-Pakistan.	
Unit – 2 : Irrigation and Agriculture:	10
Chapter No. 4. Need for irrigation, types and distribution. Multipurpose river valley projects Significance of Agriculture, Types of farming. Chapter No. 5. Agro Climatic Regions of India Agricultural Crops: Rice, Wheat, Sugarcane, cotton, Tea and Coffee. Chapter No. 6. Green Revolution, White Revolution, Blue revolution, Blue Revolution. Assignment: Selecting a mining / quarrying / industrial region students have to study the locational factors and prepare a report.	
Unit – 3: Minerals, Energy Resources and Industries:	10
Chapter No. 7. Significance and locational factors. Distribution of Iron ore, Manganese, Bauxite, Coal, Petrol. Chapter No. 8. Distribution and production of industries: Cotton Textile, Jute, Iron and Steel, Aluminum and Paper. Chapter No. 9. Special Economic Zones	

Unit – 4 : Transportation and Communication in Regional Development:	12
Chapter No. 10. Roadways, Railway, airways waterways. Chapter No. 11. Ports and National Water Ways Chapter No. 12. Indian Space Programmes.	

References:

1. Khullar DR. (2009): India: A Comprehensive Geography, Kalyani Publishers, New Delhi, Hyderabad, Kolkata.
2. AlkaGautam (2009) Geography of India, Sharada pustak bhawan, University Road, Allahabad – UP.
3. Sharma TC & Coutinho O (2005) : Economic and Commercial geography of India, Vikas Publishing House Ltd., New Delhi-14.
4. Tiwari RC. (2008) Geography of India, Prayagpustak Bhavan, 20-A, University Road, Allahabad- UP.
5. Pritivish Nag & Smita Sengupta (1992) Geography of India, Concept Publishing Company, New Delhi.
6. Ranganath (2007) Geography of India, Vidhyanidhi Prakashan, Station Road, Gadag-01.
7. PhaniDeka & Abani Bhagabati (1992) Geography: Economic and Regional, Wiley Eastern Limited, Ansari Raod, Daryaganj, N. Delhi-01.
8. Majid Husain (2008): Geography of India, Tata Mc. Graw hill publishing co. ltd. N. Delhi.
9. Singh R.L. (1971); India A Regional Geography, National Geographical Society of India, Varanasi, UP.
10. Jadish Sing (2003): India: A comprehensive systematic geography, Gyanodaya Prakashan Gorakhpur- UP.
11. Kalpana Rajaram (2012), Geography of India, Spectrum Books Pvt. Ltd.
12. Y.I. Singh (2021), Geography of India, Global Net Publication

Websites:

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

B. A./ B.Sc./ (BASIC/ HONS) GEOGRAPHY
SEMESTER IV

Title of the Course: DSC.T- 4 Regional Geography of India: 034GEO011

Course No.	Type of Course & Code	Theory/ Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
Course-III	DSC- T IV 033GEO011	Theory	04	04	56 hrs	2hrs	40	60	100

Course Objectives:

1. To Understand the basics geographical setting of India.
2. To Study physiographic divisions with drainage, soil and vegetation of India.
3. To Gets exact information regarding mechanism of monsoon and its impact.

Course Outcomes: After the completion of this course, students will be able to:

- 1 To gets exact information regarding mechanism of monsoon and its impact. Interpret and apply the concepts on resource distribution of India and related economic activities.
- 2 To interpret and apply the concepts on resource distribution of India and related economic activities
- 3 To describe the locational characteristics of an industry.
- 4 To demonstrate the economic development through the connectivity of transport and communication.

Content of Theory Course	56 Hrs
Unit –1: Physical Setting:	14
<p>Chapter No. 1: Location, size and extent. Major physiographical regions (northern mountains, northern great plains, peninsular plateau and coastal plains and islands) and their characteristics.</p> <p>Chapter No.2: Climate: Seasonal weather characteristics, climatic zones. Mechanism and characteristics of Indian monsoons; Tropical cyclones and western disturbances.</p> <p>Chapter No. 3: Floods and droughts. Drainage system. Soil: types, erosion and conservation. Vegetation: Types, distribution, afforestation, social forestry programs, national parks, wildlife sanctuaries, and biosphere reserves.</p>	
Unit – 2 : Water and Agricultural Resources:	14
<p>Chapter No. 4. Water resources of India, surface and groundwater, water demand and utilization. Irrigation: Sources, types and intensity. Issues and challenges: water resources scarcity,</p> <p>Chapter No. 5. Water conservation and management. watershed management, rain water harvesting, recycle and reuse of water. Interlinking of rivers. National water policies, national water mission, Jalashakti Abhiyaan. Command area development and water management. Central Water Commission and Water Tribunal and their role.</p> <p>Chapter No. 6. Agriculture: Landuse and cropping pattern – meaning and concepts, landuse and cropping Patten 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> <p>Assignment: Selecting a region students have to study the locational factors nearby industry and prepare a report.</p>	
Unit – 3: Industries, transportation and communication:	14
<p>Chapter No. 7. Locational factors of industries, major industrial regions and their characteristics, Classification of Industries: Agro-based, mineral-based, forest-based and animal-based industries. Special Economic Zones: Industrial / economic corridor.</p> <p>Chapter No. 8. Transport & Communication: Significance, growth and development – Road ways, railway, waterway, airway and pipeline networks and their complementary and competition.</p> <p>Chapter No. 9. Communication: Means of communication their significance.</p>	
Unit – 4 : Human Resource:	14
<p>Chapter No. 10. Growth, distribution and density of population.</p> <p>Chapter No. 11. Composition of population: Age, sex, rural-urban population composition. Migration: meaning, factors, types, causes and consequences.</p> <p>Chapter No. 12. Human Development in India: Measures, levels of development based on HDI, Human Gender Development Index (GDI)</p> <p>Field Study: Selecting a region / district students have to examine the levels of Human Development using HDI and prepare a report.</p>	

References

1. Khullar DR. (2009): India: A Comprehensive Geography, Kalyani Publishes, New Delhi, Hyderabad, Kolkata.
2. Alka Gautam (2009) Geography of India, Sharada pustak bhawan, University Road, Allahabad – UP.
3. Sharma TC & Coutinho O (2005) : Economic and Commercial geography of India, Vikas Publishing House Ltd., New Delhi-14
4. Tiwari RC. (2008) Geography of India, Prayag Pustak Bhavan, 20-A, University Road, Allahabad- UP
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**B. A./ B.Sc./ (BASIC/ HONS) GEOGRAPHY
SEMESTER IV**

Title of the Course: DSC.P- 4 Representations of Geographical Features of India: 034GEO012

Course No.	Type of Course & Code	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
Course-III	DSCC-P4 033GEO012	Practical	02	04	52 hrs	3hrs	25	25	50

Course Objectives:

1. To understand the basics geographical setting of India.
2. To study physiographic divisions with drainage, soil and vegetation of India.
3. To Gets exact information regarding mechanism of monsoon and its impact.

Course Outcomes: After the completion of this course, students will be able to:

- 1 To Understanding t h e holistically approach about the geography of India.
- 2 To Interpret and apply the concepts on resource distribution of India and related economic activities.
- 3 To Demonstrate the economic development through the connectivity of transport and communication
- 4 To represent the data in the form of maps and diagrams.

Content of Practical Course		52 Hrs
Conduct all exercises with Goal, Procedure, devices, findings and diagram.		
Unit –1: Extract the data and Represent the data :		
Exercise-1: Prepare various landforms using toposheets and interpret.	04	
Exercise-2: Construct soil fertility (NPK) and distribution (India / Karnataka District) map by using choropleth method and interpret.	04	
Exercise-3: Construct rainfall distribution map of India / Karnataka / District by using isopleth method and interpret.	04	
Exercise-4: Field Activity: Candidates are to be taken for field work to nearest local place of natural/ cultural area and ask them to prepare report how natural / cultural landscape changeover the time and submit a report.	08	
Unit – 2 : Mapping Methods:		
Exercise-5: Mapping temperature distribution in India / Karnataka / District by using isopleth method and interpret.	08	
Exercise-6: Construct a map regarding impact of industries in India by using buffer analysis digitally /manually and interpret.	08	
Exercise-7: Prepare flow-diagrams relating to air and railway transportation of India / Karnataka /District and interpret.	08	
Exercise-8: Construct special need and tourism interest map of India / Karnataka / District and interpret.	08	

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<http://www.mapsofindia.com/geography/>

**B. A./ B.Sc./ (BASIC/ HONS) GEOGRAPHY
SEMESTER IV**

Title of the Course: OE- 4 Geography of Karnataka: 004GEO051

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
OEC-III	OEC 4 003GEO051	Theory	03	03	42 hrs	2hrs	40	60	100

Course Objectives:

1. To introduce geographical settings.
2. To make students understand various physical and cultural features of Karnataka
3. To make students comprehend natural resources and their optimal use in the state

Course Outcomes: After the completion of this course, students will be able :

- 1 To Understand the site and situation of Karnataka.
- 2 To intellectual connect to the resources and economic activities of Karnataka
- 3 To Assess the demographic composition of Karnataka State.

Content of OE 4.1 Theory Course	42 Hrs
Unit –1: Introduction:	10
<p>Chapter No. 1: Geographical Location, size and Administrative divisions. Coastal Regions, Western Ghats, Malanadu Regions and Maidana Regions of Karnataka.</p> <p>Chapter No. 2: Weather and Climate: Seasons, Distribution of Rainfall and Temperature, Climatic regions, Drought prone areas in Karnataka.</p> <p>Chapter No. 3: Drainage Systems: East flowing rivers and west flowing rivers.</p>	
Unit – 2 : Soils, Natural Vegetation and Irrigation:	10
<p>Chapter No. 4. Introduction, soil types and characteristics.</p> <p>Chapter No. 5. Natural Vegetation: Types of vegetation, Distribution of forest in Karnataka, Protection and Conservations. Reserve Forest and Protected Forest in Karnataka, National Parks and Bird Sanctuaries in Karnataka.</p> <p>Chapter No. 6. Irrigation: Importance, Distribution of water resources, Irrigations – sources of irrigation, multipurpose river valley projects. River Disputes in Karnataka and River Linkages.</p>	

Assignment: Students need to visit local fields and get to know how soil conservation plans are prepared and submit report.	
Unit – 3: Agriculture:	10
<p>Chapter No. 7. Introduction, Types of Agriculture and Agro-climatic regions.</p> <p>Chapter No. 8. Major Food Crops – Paddy, Ragi, Maize, Wheat, Pulses. Commercial Corps – Cotton, Sugarcane, Tobacco, Coffee, Species, Mulberry crop.</p> <p>Chapter No. 9. Fishing and Nomadic Herding.</p>	
Unit – 4 : Minerals :	
<p>Chapter No. 10. Gold, Iron, Manganese, Lime Stone. Energy Resources - Types, Importance and their distributions.</p> <p>Chapter No. 11. Industries: Sugar Industries, Silk Industries, Cotton Industries , Iron and Steel Industries. IT and BT Industries. Industrial Policies of Karnataka.</p> <p>Chapter No. 12. Transportation: Types of Transportation, Distribution of Transportation. Population: Distribution of Population, Sex ratio, Literacy. Tourism: Potential zones, ecotourism and tourism development.</p> <p>Field Study: Students need to observe and prepare report regarding local industries and their role development of the region.</p>	12

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Details of Formative assessment (IA) for DSCC theory/OEC: 40% weight age for total marks

Type of Assessment	Weight age	Duration	Commencement
Written test-1	10%	1 hr	8 th Week
Written test-2	10%	1 hr	12 th Week
Seminar	10%	10 minutes	--
Case study / Assignment / Field work / Project work/ Activity	10%	-----	--
Total	40% of the maximum marks allotted for the paper		

**Faculty of Science
04 - Year UG Honors programme:2022-23**

**GENERAL PATTERN OF THEORY QUESTION PAPER FOR DSCC/ OEC
(60 marks for semester end Examination with 2 hrs duration)**

Part-A

1. Question number 1-06 carries 2 marks each. Answer any 05 questions : 10marks

Part-B

2. Question number 07- 11 carries 05Marks each. Answer any 04 questions : 20 marks

Part-C

3. Question number 12-15 carries 10 Marks each. Answer any 03 questions : 30 marks
(Minimum 1 question from each unit and 10 marks question may have sub questions for 7+3 or 6+4 or 5+5 if necessary)

Total: 60 Marks

Note: Proportionate weight age shall be given to each unit based on number of hours prescribed.

Scheme of Practical Examination

(distribution of marks): 25 marks for Semester end examination.

Sl. NO	Scheme of Practical Examination	Allotted Marks
1.	Interpretation and Analysis	15 Marks (5X3)
2	Viva-Voce	05 Marks
3	Journal	05 Marks
	Total	25 Marks

Note: Same Scheme may be used for I A (Formative Assessment) examination.