



RANI CHANNAMMA UNIVERSITY

BELAGAVI

**THE COURSE STRUCTURE & SYLLABUS OF UNDER
GRADUATE BACHELOR OF ARTS / SCIENCE**

GEOGRAPHY

V and VI Semesters

w.e.f.

**Academic Year 2023-24 and Onwards
Under NEP-2020**

Syllabus Aims:

The aims of the syllabus describe the B.A. / B.Sc in Geography at 5th, and 6th. These aims outline the educational context in which syllabus content should be viewed. Many of these aims may be delivered by the use of suitable case-studies, through application of geographical skills and through practical field visits.

The BA. / B.Sc Geography syllabus aims to enable students to:

1. Know the significance of scale in studying geography.
2. Know the processes functioning at various scales within physical and human environments.
3. Improve a sense of space, place and location.
4. Develop consciousness of the relevance of geography to understanding and solving contemporary environmental problems.
5. Realization of the main fundamentals of physical geography and human geography and its interconnectedness between them.
6. Explain the causes and effects of change over space and time on physical and human environments.
7. Develop an insight into the nature, value, limitations and importance of different approaches to analyse and explanation in geography.
8. Increase the knowledge and ability to use and apply appropriate skills and techniques including fieldwork.
9. Improve a logical approach in order to present a structured, coherent and evidence-based argument.
10. Develop a skill concern to accuracy and objectivity in extracting, recording, processing, presenting, analyzing and interpreting geographical data.

Program Outcomes (POs)			
By the end of the program the students will be able to:			
PO1	Geographical Knowledge	:	Give an explanation of relevant terms and concept of geography including definitions
PO2	Project Management	:	Recognize geographical principles, theories and models to manage projects and achieve its objectives.
PO3	Problem Analysis	:	Find solution to environmental and Human problems
PO4	Modern Tool	:	Application of modern tools and techniques to interpret how processes bring changes in systems, distributions and environments.
PO5	Research of Complex Problems	:	Apply research-based knowledge to provide valid conclusions and demonstrates skill of analysis and synthesis of geographical information.
PO6	Communication	:	Communicate effectively by identifying human activities and use geographical data to identify trends and patterns.
PO7	Design / development of solutions	:	Carry out investigation into the complex and interactive nature of physical and human environments.
PO8	Geography and Society	:	To inspect the environmental and societal issues and compare between the places, environments and people.
PO9	Multi-disciplinary Settings	:	Assemble geographical evidence, ideas and arguments with multi-disciplinary setting.
PO10	Ethics	:	Develop ethical principles and commit to professional ethics and responsibilities and norms of scientific practices.
PO11	Life-long Learning	:	Understand the effects of geographical processes and change on physical and human environments and life-long learning of geographical studies.
PO12	Environment and Sustainability	:	Assess how the viewpoints of different groups of people, potential conflicts of interest and other factors interact in the management of physical and human environments to bring environmental sustainability.

DEPARTMENT OF GEOGRAPHY
B. A / B. Sc. Semester wise Geography Course Scheme
under NEP-2020 System with Effect from 2023-24 Onwards

Board of Studies in Geography (BOS) : 2023-24.

1. **Prof. Basavaraj Padmashali**, Chairman, Board of Studies in Geography, Rani Channamma University, Belagavi.
2. **Dr. Siddharam. S. Hangaragi**, Member, Board of Studies in Geography and Associate Professor, Dept. of Geography, S.R.N. Arts and M.B.S. Commerce College, Bagalkot.
3. **Dr. Abhya Patil**, Member, Board of Studies in Geography and Assistant Professor, Dept. of Geography, Rani Parvatidevi (RPD) Degree College, Belagavi
4. **Dr. B.R. Bagade**, Co-Opt. Member, Board of Studies in Geography, Rani Channamma University, Belagavi.

5th SEMESTER
B.A. / B.Sc. Geography

Course Content

Sem.	Title of the Paper [Compulsory]	Paper Code	Teaching Hours/ Week	Duration of Exam	Evaluation Pattern			Credits
					I A	Sem. End Exam	Total	
V	<u>Theory – 5.1</u> Population Geography	DSC- 5.1	4	2	40	60	100	4
	<u>Theory – 5.2</u> Evolution of Geographical Thoughts	DSC- 5.2	4	2	40	60	100	4
	<u>Practical 1st – 5.3</u> Techniques in Population Geography	DSC- 5.3	4	3	25	25	50	2
	<u>Practical 2nd – 5.4</u> Interpretation of Statistical Methods in Geography	DSC- 5.4	4	3	25	25	50	2

Note:

- DSC: Discipline Specific Core Papers [All DSC Papers of Theory and Practical are Compulsory for V Sem and VI Sem.
- Scheme of Papers and Workload Pattern:
 1. Theory: 4 Credits = 100 Marks – Paper-I st (1 Credit = 1 Period / week) = 4 Periods / week.
 2. Theory: 4 Credits = 100 Marks – Paper-II nd (1 Credit = 1 Period / week) = 4 Periods / week.
 3. Practical: 2 Credits = 50 Marks – Paper-I st (1 Credit = 2 Period / week) = 4 Periods / week.
 4. Practical: 2 Credits = 50 Marks – Paper-II nd (1 Credit = 2 Period / week) = 4 Periods / week.**Total 12 Credits = 300 Marks.**

Curriculum of BA / BSc : DSC- Geography Theory Paper- I

Program Name	BA / BSc in Geography		Semester	V
Course Title	Population Geography			
Course Code:	GEO C9-T		No. of Credits	4
Contact hours	54 Hours		Duration of SEA / Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60	
Course Pre-requisite(s): No Pre-requisite course(s)				
Course Outcomes (COs): After the successful completion of the course, the student will be able to:CO1 Apply critical analysis skills on the demographic composition of a country. CO2 Classify and evaluate migrations and their types. CO3 Understanding the population resources. CO4 Analyse population growth issues and challenges. CO5 Investigate how migration takes place				
Unit	Contents			54 Hrs
I	Introduction: Nature and Scope of Population Geography, Population Geography and Demography, World Population: Growth, Distribution and Density, Problems and Measures.			10
II	Population Change: Concept of over, under and optimum population; Components of Population Change. Fertility and Mortality. Theories of Population Growth: Malthus, Demographic Transition. Assignment: Students are to be prepared a report regarding population change in their own area and submit a report.			18
III	Migration: Meaning, types, causes, consequences, Migration laws of Ravenstein. World Population composition and characteristics. Age, Sex, rural-urban, occupational structure, and educational level.			14
IV	Population as Resource, Population Resource Regions. Major Population Policy of World. Social well-being and quality of life; Contemporary Issues – Ageing of Population; Declining Sex Ratio; Human Development Index (HDI). Field Activity: Students need to visit a nearby village and get to know how and why Change in population Characteristics takes place and submit a report.			12

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-15)

Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1	-	3	-	-	-	-	-	2	-	2	-
CO2	1	-	-	-	-	1	-	1	2	-	2	-
CO3	3	-	-	-	-	2	1	1	2	-	2	-
CO4	1	-	3	-	-	1	2	1	2	-	2	-
CO5	1	1	2	-	2	1	3	1	2	1	2	-

Pedagogy: Interactive Lectures, Inquiry-based learning, Blended learning, Case Studies.

Formative Assessment for Theory	
Assessment Occasion/ type	Marks
Sessional Tests-1	10
Sessional Tests-2	10
Seminars / Presentations / Case study	10
Field-Study / Project work / Assignment	10
Total	40 Marks
<i>Formative Assessment as per guidelines.</i>	

	Reference:
1	Clarke John: Population Geography
2	Threwartha: A Geography of Population World Pattern
3	Hussain M: Human Geography
4	Chandna: Population Geography
5	Siddu and Sawant: Population Geography
6	Garnier B.J: Geography of population
7	Ghosh B.N: Fundamentals of population Geography

Curriculum of BA / BSc : DSC- Geography Practical Paper- I

Program Name	BA / BSc in Geography	Semester	V
Course Title	Techniques in Population Geography	Practical Credits	02
Course Code	GEO C10-P	Contact Hours	52 Hours
Formative Assessment	25 Marks	Summative Assessment	25 Marks

Course Pre-requisite(s): No Pre-requisite course(s)

Course Outcomes (COs):

After the successful completion of the course, the student will be able to:

- CO1 Learn various methods of representative of demographic data
- CO2 Apply various technologies in representation of demographic data
- CO3 Analyse the trend and pattern of demographic data
- CO4 Construct different diagrams using the data
- CO5 Formulate the future trend of the data

1. Sources of population data: Census of India, UNPD (united nations population division), birth and death registry VSS (Vital statistics survey), NSS (National Sample Survey), NFHS (National Family and Health Survey),
2. Population distribution and density
 - a) Thematic maps for population Distribution-patterns (dot map).
 - b) Calculation of Population Growth rate – Line Graph,
 - c) Calculation of population projection, arithmetic method,
 - d) Calculation of population Density arithmetic density, and agriculture density (Choropleth maps), .
3. Calculation of different types of fertility and mortality rates for any one region Eg: India / Karnataka /District, using the Census of India latest data.
 - a) Crude birth rate, fertility rate
 - b) Crude death rate/ Mortality rate, Infant mortality rate
 - c) Age-specific mortality rate
 - d) Sex-specific mortality rate
4. Thematic maps for Population composition: construction of population pyramids for Age, Sex, Rural and Urban, for important places in India / Karnataka / District, using the Census of India latest data.

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-15)

Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	-	-	-	-	1	-	-	2	-	2	-
CO2	2	-	-	3	-	1	-	-	2	-	2	-
CO3	1	-	3	-	-	1	2	-	2	-	2	--
CO4	1	-	1	-	-	1	-	-	2	-	2	-
CO5	1	-	1	-	1	1	2	-	2	-	2	-

Pedagogy: Interactive Lectures, Inquiry-based Learning, Cooperative Learning.

Formative Assessment for Practical	
Assessment Occasion/ type	Marks
Sessional Tests-1	05
Sessional Tests-2	05
Case study /Assignment / Field-activity / Project work / Viva-Voce	05
Practical Record Book Maintenance	10
Total	25 Marks
<i>Formative Assessment as per guidelines.</i>	

References	
1	Chandna R.C. (2009), Geography of Population, Kalyani Publicishers, Aneari Road, Daryaganj, New Delhi.
2	Majid Hussain (1999), Human Geography, Rawat publications, Jaipur.
3	Trewartha GT. (1959) A Geography of Population, world Patterns, John Wiley and Sons Inc. New York.
4	Ghosh BN. (1987) Fundamentals of population Geography s, sterling publishing company, New Delhi
5	Jingam ML. B.K. Bhat, JN Deasi (2003) Demography, Urinda Publishers Pvt. Ltd. Delhi.
6	R.K. Tripathi ((2000) Population geography, commonwealth publishers, New Delhi.
7	Kayastha SL. (1998) Geography of Population, Rawat publications, jaipur.
8	Clerk I (1984) Geography of populations, approaches and applications, pergamon press, Oxford, UK.
9	Ritu Malik (2013), Changes in population Dynamics, Sanjay Prakashan
10	Prthvish Nag, G.C.Debnath (2021), Population Geography, Bharti Prakashan, Varanasi
Resource Websites:	
1	https://censusindia.gov.in/census.website/
2	https://mea.gov.in/icm.htm
3	https://population.un.org/wpp/
4	https://www.popcouncil.org/research/india
5	https://www.cdc.gov/csels/dsepd/ss1978/lesson3/section3.html

Curriculum of BA / BSc : DSC- Geography Theory Paper- II

Program Name	BA / BSc in Geography	Semester	V
Course Title	Evolution of Geographical Thoughts		
Course Code:	GEO C13-T	No. of Credits	04
Contact hours	54 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Pre-requisite(s): No Pre-requisite course(s)

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Learn the history of Geography, including Classical Geography.
- CO2. Compare and contrast the different approaches to scientific geography.
- CO3. Evaluate the contributions of eminent geographers such as Ratzel Humbolt, Hartshorne, David Harvey
- CO4. Analyze the various philosophies in Geography, like Man-Environment relationship.
- CO5. Investigate the regional geography of their own town/village.

Unit	Contents	54 Hrs
I	Foundations to Geography: Geography: Definitions; Nature and Scope of Geography: Geography as a Natural and Social Science; Origin and evolutionary process of Geography. Classical Geography – Greek, Roman and Arab period. Age of Exploration.	12
II	Towards Scientific Geography (Positivism 1950's): Quantitative revolution and scientific method (emphasis on Harvey's work); Geography as a spatial science: Spatial approach and spatial analysis; and Peter Hagget's spatial systems. Assignment: Student needs to work on changes taken place during the quantitative revolution.	14
III	Development of Modern Geographical Thoughts: Founders of Modern Geographical Thought-Humbolt, Carl Ritter, Erdkunde, Schools of Geography- German, French, British, Development of Geographical Thoughts in India.	12
IV	Modern Themes and Philosophy in Geographical Thoughts: Emperealism, externalism, ideologism, possiblism, environmentalism, man- environmental relationship, Markism and realism.Landscape theme, Aerial Differentiation theory, spatio- temporal theme, spatial organization, theory and geometric theory. Field Activity: Students need to work on regional geography of their own town / village with physical and cultural features.	16

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-15)

Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	-	-	-	-	3	-	-	-	2	3	-
CO2	2	-	-	-	-	2	-	-	-	3	-	-
Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO3	1	-	-	-	-	2	-	-	-	2	-	-
CO4	1	-	2	-	-	2	-	-	-	-	-	2
CO5	1	-	2	2	2	-	3	-	2	-	-	-

Pedagogy: Interactive Lectures, case studies, Discussion-based, Inquiry-based

Formative Assessment for Theory	
Assessment Occasion/ type	Marks
Sessional Tests-1	10
Sessional Tests-2	10
Seminars / Presentations / Case study	10
Field-Study / Project work / Assignment	10
Total	40 Marks
<i>Formative Assessment as per guidelines.</i>	

References	
1	Brendan Bartley; Phil Hubbard; Rob Kitchin and Duncan Fuller, (2002), Thinking Geographically: Space, Theory and Contemporary Human Geography, Continuum International Publishing Group Ltd.
2	David Harvey (2000), Explanations in Geography, Macmillan, New York
3	Dikshit R.D (2001), Geographical Thoughts: A Conceptual History of ideas, Prentice Hall Publishing Company, New Delhi
4	Johnston, R.J. (2000) the Dictionary of Human Geography, Oxford: Blackwell Publishers.
5	Majid Hussain, (2001), Evolution of Geographic Thoughts, R.K Publication and distributors
6	Peter Hagget (1972), Geography: A Modern Synthesis, Harper & Row series in geography
7	Preston E. James (1993) All Possible Worlds: A History of Geographical Ideas, New York, John Wiley.
8	Majid Husain (1984) Evolution of Geographical Thought, Rawat Publication, Jaipur / New Delhi

Curriculum of BA / BSc : DSC- Geography Practical Paper- II

Program Name	BA / BSc in Geography	Semester	V
Course Title	Interpretation of Statistical Methods in Geography	Practical Credits	02
Course Code	GEO C12-P	Contact Hours	52 Hours
Formative Assessment	25 Marks	Summative Assessment	25 Marks
Course Pre-requisite(s): No Pre-requisite course(s)			
Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Learn statistical techniques CO2. Apply modern technology in various geographical area CO3. Interpret the geographical aspects related data CO4. Analyze through diagrammatic / graphical representation – Graphs/Maps/Diagrams. CO5. Analyze ground truth verification using toposheets for micro unit area and evaluate its usefulness			
Practical Content			
<ol style="list-style-type: none"> 1. Definition and meaning, use of statistical methods in Geography. 2. Data: Defining Data, Types of Data: Nominal, Ordinal, Interval and Ratios, 3. Collection of Data: Primary and Secondary Data and 4. Classification and Tabulation of data 5. Sampling: Methods and Types of Samplings 6. Formation of Frequency Distribution: Frequency Table, 7. Drawing of Histogram, Frequency Curve, Polygon and Ogive Curve. 8. Measures of Central Tendency: Mean, Median and Mode 9. Measures of Dispersion : Range, Quartile Deviation, Mean Deviation, Standard Deviation and Co-efficient of Variation. 			

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-15)

Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	-	-	2	-	-	-	-	2	-	2	-
CO2	2	-	-	3	-	-	2	-	2	-	2	-
CO3	1	--	-	3	-	2	2	-	2	-	2	-
CO4	1	-	3	3	-	-	2	-	2	-	2	-
CO5	1	-	2	3	1	-	3	-	2	-	2	-

Pedagogy: Interactive Lectures, Inquiry-based Learning, MOOCs

Formative Assessment for Theory	
Assessment Occasion/ type	Marks
Sessional Tests-1	05
Sessional Tests-2	05
Case study /Assignment / Field-activity / Project work / Viva-Voce.	05
Practical Record Book Maintenance	10
Total	25 Marks
<i>Formative Assessment as per guidelines.</i>	

	References
1	.L.Singh- Elements of Practical Geography
2	Gopal Singh- Practical Geography
3	Dr. Ranganath - Practical Geography : (Kannada)
4	Singh and Kanoj- Practical Geography
5	R.P.Misra and Ramesh- Practical Geography Fundamental of Cartography
6	M.F.Karenavar & S.S.Nanjannavar.- Practical Geography : (Kannada)
7	B.S.Negi.- Statistical Geography
8	Basic Statistics : S.P. Gupta
9	Statistical Methods In Geographical Studies : Mahammad Aslam.
10	Advanced Practical Geography-Pijushkanti Saha & Partha Basu

6th SEMESTER

B.A. / B.Sc. Geography

DEPARTMENT OF GEOGRAPHY

**B. A / B. Sc. Semester wise Geography Course Scheme
under NEP-2020 System with Effect from 2023-24 Onwards**

Course Content

Sem.	Title of the Paper <i>[Compulsory]</i>	Paper Code	Teaching Hours/ Week	Duration of Exam	Evaluation Pattern			Credits
					I A	Sem. End Exam	Total	
VI	<u>Theory – 6.1</u> Environmental Geography	DSC- 6.1	4	2	40	60	100	4
	<u>Theory – 6.2</u> Regional Planning and Development	DSC- 6.2	4	2	40	60	100	4
	<u>Practical 1st – 6.3</u> Methods in Environmental Geography	DSC- 6.3	4	3	25	25	50	2
	<u>Practical 2nd – 6.4</u> Field Work / Project Work / Dissertation	DSC- 6.4	4	3	25	25	50	2

Note:

- DSC: Discipline Specific Core Papers [All DSC Papers of Theory and Practical are Compulsory for V Sem to VI sem.
- Scheme of Papers and workload pattern:
 1. Theory: 4 Credits = 100 Marks – Paper-I st (1 Credit = 1 Period / week) = 4 Periods / week.
 2. Theory: 4 Credits = 100 Marks – Paper-II nd (1 Credit = 1 Period / week) = 4 Periods / week.
 3. Practical: 2 Credits = 50 Marks – Paper-I st (1 Credit = 2 Period / week) = 4 Periods / week.
 4. Practical: 2 Credits = 50 Marks – Paper-II nd (1 Credit = 2 Period / week) = 4 Periods / week.

Total 12 Credits = 300 Marks.

RANI CHANNAMMA  UNIVERSITY, BELAGAVI

‘Vidhyasangam’

DEPARTMENT OF GEOGRAPHY

B. A / B. Sc. Semester wise Geography Course structure

Scheme NEP-2020 System with Effect from 2023-24 Onwards

Curriculum of BA / BSc : DSC- Geography Theory Paper- I

Program Name	BA / BSc in Geography	Semester	VI
Course Title	Environmental Geography		
Course Code:	GEO C14-T	No. of Credits	4
Contact hours	54 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Pre-requisite(s): No Pre-requisite course(s)		
Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Understand the interdisciplinary nature and the relationship between man and the environment. CO2. Know functioning of ecosystems, including the impact of human activity and global ecological changes. CO3. Evaluate man-made changes like pollution, environmental hazards, and the depletion of natural resources. CO4. Examine environmental policy, impact assessment, and conservation measures. CO5. Apply knowledge of environmental geography to real-world situations.		
Unit	Contents	54 Hrs
I	Introduction to Environment Geography: Nature and Interdisciplinary. Aspect of Environmental Geography. Ecological Approaches. Definition and meaning of environment. Habitat. Ecological Niche. Biosphere and Biodiversity; bio-diversity and sustainable development. Man and Environmental Relationships	09
II	Ecosystem: Structure and Functioning of Ecosystem and types. Principle of ecology; human ecological adaptation; the influence of man on ecology and environment. Global and regional ecological change & imbalance. Food Chains, Food Webs, Food Pyramid. Assignment: Students are to be prepared a report regarding environmental change in their own area and submit a report.	18
III	Man-Induced Changes in Environment: Environmental Pollution, i.e., Air, Water, Noise; Solid Waste with special reference to India. Environmental Hazards, Flood, Famines; Land Slides, Avalanches, Forest Fires; Impact of Green Revolution and Extinction of Species. Man-Made Ecosystem - Urban, Ecotourism.	13
IV	Principles of Environmental Management: Environmental Policy of India, (post-2000 AD). Global Summits & Agencies of Environment Conservation. Environmental degradation, management and conservation. Problems of Deforestation and conservation measures. Field Activity: Students need to visit a nearby village and its vicinity and get to know how and why change in environment takes place and submit a report.	14

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-15)

Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	-	-	-	-	-	-	2	2	-	-	-
CO2	2	-	-	-	-	-	-	3	-	-	-	1
CO3	-	-	-	-	-	-	3	-	-	-	1	-
CO4	-	-	-	-	-	-	2	-	-	-	-	3
CO5	-	-	3	-	-	-	2	-	-	-	-	-

Pedagogy: Interactive Lectures, Inquiry-based learning, Blended learning, Case Studies.

Formative Assessment for Theory	
Assessment Occasion/ type	Marks
Sessional Tests-1	10
Sessional Tests-2	10
Seminars / Presentations / Case study	10
Field-Study / Project work / Assignment	10
Total	40 Marks
<i>Formative Assessment as per guidelines.</i>	

	Reference:
1	R.B. Singh(1990) Environmental Geography, Heritage Publishers New Delhi.
2	Strahler. A.N. The Earth Sciences, Haper International Education, New York.
3	Strahler A.N.& Strahler.A.H, Geography of man's Environment, John Wiley & sons
4	Savinder Singh, Environmental Geography, Prayag Pustak Bhawan,1997.
5	Kates,BI &White.GF, The Environment as Hazards, Oxford, New York.
6	Saxena.H.M (2000) Environmental Geography, Rawat publication, New Delhi.
7	H.K.Gupta(Ed) Disaster Management, University Press, India, 2003.

Curriculum of BA / BSc : DSC- Geography Practical Paper- I

Course Outcomes (COs) / Program Outcomes (POs)		Program Outcomes (POs)	
Program Name	BA / BSc in Geography	Semester	VI
Course Title	Methods in Environmental Geography	Practical Credits	02
Course Code	GEO C15-P	Contact Hours	52 Hours
Formative Assessment	25 Marks	Summative Assessment	25 Marks

Practical Content

1. List out Biotic and Abiotic elements in the local region.
2. List some ecosystem management and conservation methods in the local region for water bodies,
3. mapping of water bodies,
4. Mapping of bore wells.
5. Map the polluting points in the local area and their influence of man on the local environment.
6. Mapping of Waste disposal sites
7. Suitability of the site for waste disposal (with reference to height, location, land use, land value, slope,
8. Mapping of parks and open spaces in the neighbourhood.
9. Mapping of areas in the neighbourhood where crowding is prevalent and type of land use around such places.

Course Outcomes (COs) / Program Outcomes (POs)	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	-	-	-	-	-	-	2	2	-	-	-
CO2	2	-	-	-	-	-	-	3	-	-	-	1
CO3	-	-	-	-	-	-	3	-	-	-	1	-
CO4	-	-	-	-	-	-	2	-	-	-	-	3
CO5	-	-	3	-	-	-	2	-	-	-	-	-

Pedagogy: Interactive Lectures, Inquiry-based Learning, Cooperative Learning.

Formative Assessment for Practical	
Assessment Occasion/ type	Marks
Sessional Tests-1	05
Sessional Tests-2	05
Case study /Assignment / Field-activity / Project work / Viva-Voce	05
Practical Record Book Maintenance	10
Total	25 Marks

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-15)**Formative Assessment as per guidelines.**

References	
1	Strahler A.N. (1968) The Earth Sciences, Harper International Education, New York.
2	Richard H.B. (2004) Physical Geography, Heinmann Simple Services, Rupa & Company, New Delhi
3	Robinson H. (1982) Bio Geography, ELBS, New York.
4	Healey I.N. and Moore P.D. (1973) Biogeography, Backwell Oxford, U.K.
5	Strahler A.N. and Strahler A.H. (1973) Environmental Geo Science, Hamilton, California, USA.
6	Savindra Singh (2004) Environmental Geography, Prayog Pustak Bhawan, Allahabad, India.
7	Paul Selman (2000) Environmental Planning, Sage Publications, New Delhi
8	Cheryl Simon Silve & Ruth S. De Fries (1991) One Earth One Future-Our chaining Global Environment, National Academy of Sciences, Affiliated to East-West Press Pvt. Ltd. New Delhi.
9	Strahler A.N. and Strahler A.H. (1977) Geography and Man's Environment, John Wiley & Sons, New York
10	Goldsmith Edward et al. (1988) The Earth Report – The Essential Guide to Global Issues, Price Stern Solan Inc. California, USA
Websites:	
1	https://moef.gov.in/en/
2	http://environmentclearance.nic.in/
3	https://ndma.gov.in/
4	https://bhuvan.nrsc.gov.in/home/index.php
5	http://www.indiaenvironmentportal.org.in/

Curriculum of BA / BSc : DSC- Geography Theory Paper- II

Program Name	BA / BSc in Geography		Semester	VI
Course Title	Regional Planning and Development			
Course Code:	GEO C16-T	No. of Credits	4	
Contact hours	54 Hours	Duration of SEA/Exam	2 hours	
Formative Assessment Marks	40	Summative Assessment Marks	60	

Course Pre-requisite(s): No Pre-requisite course(s)

Course Outcomes (COs): After the successful completion of the course, the student will be able to:
 CO1. Understand the definition, components, and interdisciplinary domains of regional planning.
 CO2. Apply geodesy and spatial mathematics for measuring distances and coordinates.
 CO3. Analyze and evaluate spatial data structures, sources, errors, and scales for precision and accuracy.
 CO4. Perform geo-processing and visualization techniques including spatial and non-spatial queries.
 CO5. Collect and integrate spatial and non-spatial data for a case study using online resources.

Unit	Contents	54 hrs
I	Concept of Region- types and hierarchy of regions - concept of planning and its types, Approaches to Regional planning. Indicators of regional development.	08
II	Basic issues in Regional planning- Grass root level and systems of regional planning, Regional interactions, socio-economic and technological development. Development strategies of planning: Need of planning for natural, social and economically backward regions. Tribal area development planning. Assignment: Students are to be prepared a report regarding regional imbalance in their own area and submit a report.	20
III	Regional Planning Processes – sectoral, temporal, spatial and multi-level planning. Centralized and Decentralized planning; Block and District level planning and Integrated Area Development Planning (IADP).	12
IV	Regional Development Process- Role of urban centers in regional development. City regions and their problems. Regional Disparities. Planning Regions in Karnataka; Policies and Programmes for backward area development. Field Activity: Students need to visit a nearby backward area and get to know how and why the particular backwardness region or area takes place and submit a report.	14

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-15)

Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	-	-	-	-	-	-	-	2	-	-	-
CO2	2	-	-	-	-	-	-	-	3	-	-	-
Course Outcomes (COs) / Program Outcomes (POs)	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
CO3	1	-	2	3	-	-	-	-	-	-	-	-
CO4	-	-	-	-	3	-	-	-	2	-	-	-
CO5	-	1	-	2	-	-	-	-	3	-	-	-

Pedagogy: Interactive Lectures, Inquiry-based learning, Blended learning, Case Studies.

Formative Assessment for Theory	
Assessment Occasion/ type	Marks
Sessional Tests-1	10
Sessional Tests-2	10
Seminars / Presentations / Case study	10
Field-Study / Project work / Assignment	10
Total	40 Marks
<i>Formative Assessment as per guidelines.</i>	
References	
1	Ashish Sarakar(2011): Regional planning in India.
2	Bhat L. S.: Aspects of Regional Planning in India.
3	Chandana. R. C. (2003): Regional Planning A Comprehensive Text
4	Chaudhuri. J. R.(2009): An Introduction to Development and Regional Planning with spatial reference to India
5	Dickinson R.E.(1964): City and Region ; A Geographical Interpretation. Routledge and Keagan Paul.
6	Galasson John (1974): An Introduction to Regional Planning
7	Misra R.P.Sundaram K.V & V.L.S.Prakasa Rao (1974) : Regional Development Planning In India.
8	Misra R.P. (1992): Regional planning,Concept Publishing company. New Delhi.
9	M. Chand & V. Puri(1983): Regional Planning in India, Allied publishers Ltd., New Delhi
10	Sundaram, K. V. (1985): Geography and Planning”, Concept Pub. Company, New Delhi

Curriculum of BA / BSc : DSC- Geography Practical Paper- II

Program Name	BA / BSc in Geography	Semester	VI
Course Title	Field Work / Project Work/ Dissertation	Practical Credits	02
Course Code	GEO C17-P	Contact Hours	52 Hours
Formative Assessment	25 Marks	Summative Assessment	25 Marks
Practical Content			
<ol style="list-style-type: none"> 1. Preliminary Discussion and selection of the topic. Preparation of Questionnaire, etc. 2. Data collection, Tabulation, and 3. Methodology. 4. Final report writing. 5. Presentation 			
Formative Assessment for Practical			
Assessment Occasion/ type		Marks	
Sessional Tests-1		05	
Sessional Tests-2		05	
Case study /Assignment / Seminar/ Viva-Voce		05	
Field-activity / Project work / Practical Record Book Maintenance		10	
Total		25 Marks	
<i>Formative Assessment as per guidelines.</i>			

Reference:

www.http:// Small Project Reports related to educational study tours, etc.

1. <https://www.slideshare.net/rnjanaditya/study-tour-report-48137078>
2. <https://www.deshbandhucollege.ac.in/pdf/zoology/events/Kanyakumari-Tour-Report-2019%20-2020.pdf>
3. <https://www.researchpublish.com/upload/book/paperpdf-1625557346.pdf>
4. https://www.researchgate.net/publication/324175054_Student_Learning_Experiences_During_an_International_Study_Tour
5. https://www.researchgate.net/publication/355080303_Educational_Benefits_of_Study_Tours_for_the_Students_of_Architectur_e_Make_the_world_your_classroom