

  
**RANI CHANNAMMA UNIVERSITY, BELAGAVI**  
**Vidya Sangam**  
**2015-16**

**Regulations & Syllabus**  
**for**  
**P.G. DEPARTMENT OF STUDIES IN**  
**GEOGRAPHY**

**M. Sc IV Semester**  
**Choice Based Credit System**  
**CBCS**

**WITH EFFECT FROM 2015-16 & ONWARDS**

**Department of Studies in Geography**  
**Choice Based Credit System**  
**(CBCS)**

**M. Sc IV<sup>th</sup> Semester Geography**

Paper	Subject Title	Theory/ Practical Hour/ Week	Core	Credits	Duration of Exam Hours	Max. of Marks	IA Marks	Total
	<i>Theory paper:</i>							
4.1	Regional Planning and Development	4	Core	4	3	80	20	100
4.2	Resource Geography	4	Core	4	3	80	20	100
4.3	Research Methodology in Geography	4	Core	4	3	80	20	100
4.4	<b>Optional Papers:</b> Choice any one: a) Geography of Gender & Health b) Rural Landuse Planning c) Urban Planning & Development	4 4 4	Core Core Core	4 4 4	3 3 3	80 80 80	20 20 20	100 100 100
	<i>Practical paper:</i>							
4.5	<b>Practical-I</b> Conventional and GPS Surveying	4	Core	4	4	80	20	100
4.6	<b>Practical- II</b> Project/Field Work/ Dissertation	4	Core	4	4	80	20	100

**RANI CHANNAMMA UNIVERSITY, BELAGAVI**

Department of Studies in Geography

CBCS (Choice Based Credit System)

**M. Sc IV<sup>th</sup> Semester Geography****SEMESTER-IV****PAPER-4.1 REGIONAL PLANNING AND DEVELOPMENT**

**Objectives:** To understand and evaluate the concept of region in geography and its role and relevance in regional planning, to identify the issues relating to the development of the region through the process of spatial organization of various attributes and their interrelationships. The course also aims to identify the causes of regional disparities and to suggest the measures for the development of the region.

**Course Structure:**

Unit- I	Concept of Region- types and hierarchy of regions - concept of planning-types of planning - approaches to Regional planning. Indicators of development. Measures of regional development.	10 hours
Unit- II	Basic issues in Regional planning-Gross root level and systems to regional Planning, Regional interactions and economic development.	08 hours
Unit- III	Development Strategy and planning for Natural, Social and economically background regions. Tribal area development planning.	08 hours
Unit- IV	Growth pole concept-Growth pole theory and regional planning. Planning processes – Sectoral, Temporal, and spatial, Multi level Planning-Block and District level Planning, decentralized planning and Integrated Area Development Planning.	12 hours
Unit-V	Role of urban centers in regional development – Urban scenario in Karnataka in the context of regional development – City regions and their problems. Regional Disparities-Planning Regions in Karnataka-Policies and Programmes for backward area development.	12 hours

**REFERENCE:**

1	Ashish sarakar(2011)	Regional planning in India.
2	Dickinson R.E.(1964)	City and Region; A Geographical Interpretation Routledge and Keagan Paul.
3	Friedman J.& Alonson W.(1964)	Regional Development and Planning. MIT Press. Cambridge mass.
4	Galasson John (1974)	An Introduction to Regional Planning Hutchinson Educational London.
5	Hilborot j.G.M (1971)	Regional planning. Rotterdam university Press, Rotterdam.
5	Sundaram, K. V. (1985]	Geography and Planning”, Concept Publishing Company, New Delhi
6	Misra R.P. Sundaram K.V.& V.L. S. Prakasa Rao(1974)	Regional Development Planning In India.
7	Misra R.P. (1992)	Regional planning, Concept Publishing company, New Delhi.
8	Mahesh Chand & Vinaykumar Puri(1983)	Regional Planning in India, Allied publishers Ltd., New Delhi.
9	Whynnes Charles & Hammand (1979)	Element of Human Geography, George Aflen & Unwin, London.
10	Bhat L. S.	Aspects of Regional Planning in India.

# RANI CHANNAMMA UNIVERSITY, BELAGAVI

Department of Studies in Geography

CBCS (Choice Based Credit System)

## M. Sc IV<sup>th</sup> Semester Geography

### PAPER-4.2 RESOURCE GEOGRAPHY

**Objectives:** The objective of this paper is to provide an overview of resource geography and its interface with environment. The course aims to provide an understanding of the existing reality of resources utilization and environmental depletion, further it aims to sensitize the students to the concept of sustainable resource and sustainable development.

#### Course Structure:

Unit- I	Definition, Meaning, nature and significance of Resources. Creation of Resources- Use and Misuse of Resources- Impact of Science and Technology on Resource exploitation.	00 hours
Unit- II	Classification of Resources: Renewable and non-renewable resources, and its importance. Land and Forest Resources: Importance of forest resources-Types of forest-Deforestation. Maintenance and conservation of forest resources.	10 hours
Unit- III	Atmospheric Resources: Air and air pollution and its effects- Sociological response to air pollution. Water Resources: Use of water resources and its Conservation, Water pollution . Hydrological cycle	08 hours
Unit- IV	Resources development–Resource depletion, degradation and emerging Crisis- Desertification,–Global warming-Increasing water scarcity and conflicts–Energy crisis- Issues of Sharing of resources –Challenges before developed and developing countries.	10 hours
Unit-V	Need for resource conservation - Methods of conservation, Use and Re-use of materials, Types of recycling. -World submits on the conservation of natural resources. Community participation and governance–Sense of individual responsibility, Role of Government in the conservation of natural resources.	10hours

#### REFERENCE:

1	Allen S.W and Leonard	Conserving Natural Resources
2	Dasmann	Environmental Resources.
3	Finch Trewartha and Sheares	The Earth and its Resources
4	Harper, C.L (2001)	Environment and Society, Human Perspectives on Environmental Issues, Prentice Hall, New Jersey.
5	Herald G.V.V	Conservation of Natural Resources
5	Mather, A.S. and Chapman, K.(1995)	Environmental Resources, Longman Scientific and Technical, London.
6	Negi B.S	Resource Geography
7	Olivers. Owen	Natural Resource Conservation
8	Renner G.G	Conservation of Resources
9	Vadilal Dagli	Natural Resources in Indian Economies.
10	Zimmermann E.W	Introduction to world

**RANI CHANNAMMA UNIVERSITY, BELAGAVI**

Department of Studies in Geography

CBCS (Choice Based Credit System)

**M. Sc IV<sup>th</sup> Semester Geography****PAPER-4.3 - RESEARCH METHODOLOGY IN GEOGRAPHY**

**Objectives:** The aim of this course is to provide some basic scientific procedures of research to select the research problem, using tool and methods in research, to provide more exposure of understanding statistical and quantitative methods. Further the course aims to provide intensive training for understanding formulation of research problem, organization of the work done and finalizing the work selected etc .The students will study this course with adequate information and skills required.

**Course Structure:**

Unit- I	Research Methodology: Meaning Need and purpose, Scientific Approaches to geographical research: Type of research- Traditional and scientific,	08 hours
Unit- II	Logic of Research: Hypothesis, concepts, facts, laws, theories and their importance in geographical research- Importance of deductive and inductive reasoning, scientific method and theory building.	10 hours
Unit- III	Tools and Techniques of Research: Selection of the problem. Observation, Perception, Interview, Questionnaire, Schedule and check list- sources of data – primary and secondary, use of sampling techniques- use of SPSS software in data analysis.	10 hours
Unit- IV	Research tool and Research Design: Formulation a research proposal- Identification and defining the problem, objective and scope of Research, and preparing bibliography in a scientific manner- Proficiency in field methods- proficiency in the use of maps and Photographs- proficiency in the analysis of statistical data and Quantification.	10 hours
Unit-V	Writing of report- significance of report writing- Chapter wise Organization of the thesis, the text of the reference material- Drafting of the thesis – First, Second and final draft. Summary and Conclusion of the work.	10 hours

**REFERENCE:**

1	Anderson, J. Durston, B.H. & Poole, M, (1970)	Thesis and Assignment Writing, Wiley Eastern Ltd, New Delhi
2	Cooray, P.G (1992)	Guide to Scientific and Technical Writing, Handagala, Srilanka
3	Davis J.C. (1986)	Statistics and data Analysis, John Wiley and Sons NY.
4	Fitz Gerald, B.P. ed (1974	Science in Geography, Series 1, 2, 3, 4, 5, 6. Oxford University press, London
5	Hang, L.L. and Lounsbury, J.F. (1971)	Research Methods in Geography, Brown company Publishers, Iowa
5	Kothari, C. R.(1990)	Research methodology, methods and Techniques Vishwa Prakashan, New Delhi.
6	Mishra, R.P.(1991)	Research methodology in Geography. Concept Publishing, New Delhi.

**RANI CHANNAMMA UNIVERSITY, BELAGAVI**

Department of Studies in Geography

CBCS(Choice Based Credit System)

**M. Sc IV<sup>th</sup> Semester Geography****SEMESTER-IV****Paper-4.4-(a) GEOGRAPHY OF GENDER AND HEALTH  
(Optional)**

**Objectives:** The basic objective of this course is to give to the students that the significance and variability of gender relationship across the human world and also aimed at understanding spatial and structural dimensions of gender at global and regional level. The course also acquaints the students with the role of geographical factors influencing the spatial distribution of diseases. To make the students abreast of existing health-care facilities, so as to train them with better health care planning for the country.

**Course Structure:**

Unit- I	Meaning, Definition & significance of Gender- Interdependence between man and Woman- Geography of Gender as an area of Specialization. Multiple role men and women with forest, agriculture, mining, construction, Industry, and Service, Male and Female involvement in economic and social activities.	10 hours
Unit- II	Gender based Demographic Structure: Fertility, mortality, Infant mortality rates between Boys & Girls.-Maternal mortality rate-Female infanticide- Poverty & caste-Dependency ratio	08 hours
Unit- III	Social & cultural aspects: Gender gap in social & public life- Wage differentials in economic activities- Gender division of labour- Health care & nutrition- Gender-gap in Literacy & Education.	08 hours
Unit- IV	Modernization, Population change & Health: WHO classification of diseases. Disease Ecology-Bacterial & fungal factors affecting of health. Deficiencies of Health: Nutrition & habits, Nutritional Deficiencies, Disease pattern in India and Karnataka.	10 hours
Unit-V	Health care planning: Global Inequalities, Level of health care, health care accessibility and utilization. Health care system - state level, National level- Role of Govt. and NGO's.: WHO, UNICEF, Red Cross. Health care policy in India.	10 hours

**REFERENCE:**

1	Mcdowell Linda. (1999)	Gender, Identity and Place, Polity Press, U.K.
2	Raju, Saraswati. and Bagchi, Dipika. (1998)	Women & Work in South Asia Regional Patterns and Perspectives, Routledge, U.K. & U.S.A.
3	Mcdowell, Linda. and Sharp, Joanne P. (1997)	Space, Gender and Knowledge, Arnold, U.K.
4	Visvanathan, Nalini.(1997	The Women, Gender and Development Reader,
5	Government of India (1974)	Towards Equality: Report of the Committee on the Status women India, Govt. Prin. Press, Delhi
5	Raju, J. et. al., (1999)	Atlas on Men and Women in India, Kali for Women, New Delhi,
6	Momsen, J.& Townsend, J	Geography of Gender in the Third World, U.K
7	Edmundson, W.C.1992	Diet, Disease and Development, Health and Health Care in the Third World, New Delhi, Macmillan. 13. Phillips, D.R. 1990
8	Akhtar, R. and A.T.A. Learmonth. 1985	Geographical Aspects of Health and Disease in India,

**RANI CHANNAMMA UNIVERSITY, BELAGAVI**

Department of Studies in Geography

CBCS (Choice Based Credit System)

**M. Sc IV<sup>th</sup> Semester Geography**

**PAPER-4.4-(b) RURAL LANDUSE PLANNING  
(Optional)**

**Objectives:** The aim of the course is to introduce the students about the concept, principles of landuse, and land use planning, and its overuse and misuse of soil in recent years have resulted in degradation of soil. The course further aims to familiarize the students with the application of various landuse theories, models, land capability classifications and agricultural landuse problems and planning policies at macro, meso and micro levels.

**Course Structure:**

Unit- I	Definition, meaning and principles of land use planning. Factors influencing agricultural land use .significance of land use studies. Agricultural land use and its problems.	08 hours
Unit- II	Land resource-Function of land-Land use and land cover-land cover damage-Issues related land use change. Aims and objectives of landuse planning, efficiency, equity and acceptability, sustainability.	10 hours
Unit- III	Soil profile-O- horizon, A- horizon, B- Horizon, C- horizon, E- Horizon and R- horizon. Soil forming factors-parent materials, organic, topographic & spatio-temporal dimensions.	10 hours
Unit- IV	Planning of soil, Soil conservation and management in rural areas. Agricultural land use and land capability classifications. Methods of land capability.	08 hours
Unit-V	Agricultural land use problems and planning. Difference between rural and urban land use planning. Principles of land use planning of Macro, Meso and Micro levels.	12 hours

**REFERENCE:**

1	Ali Mohamad	Studies in Agricultural Geography.
2	M. Shafi,(2006)	Agricultural Geography” Dorling Kindersly (India) pvt, Ltd. Licensees of Pearson Education in South Asia. New Delhi.
3	Majid Hssain, (2002)	Systematic Agricultural Geography” Rawat Publication, Jaipur.
4	Noor Mohammed	Perspectives in Agricultural Geography, Vol. I to II, concept publishing company, New Delhi.
5	Sing and Dhillon, (2000 )	Agricultural Geography”, Tata Mcgrow – Hill Publishing company ltd, New Delhi.
5	Jasbir Sing,	Agricultural Geography.
6	Stamp. L. D	The Land of Britain-it purpose and scope.
7	Shafi. M(1969)	Landuse planning, Classification and capability Geographers, Vol-XVI, 1969.

**RANI CHANNAMMA UNIVERSITY, BELAGAVI**

Department of Studies in Geography  
CBCS(Choice Based Credit System)

**M. Sc IV<sup>th</sup> Semester Geography****PAPER-4.4-(C) URBAN PLANNING AND DEVELOPMENT  
(Optional)**

**Objectives:** The objective of this paper is to provide an overview of urban planning India. The aim is to acquaint the student with spatial and structural characteristics of Human settlement under varied environmental conditions, to enable them to diagnose spatial issues related to planning of urban and rural settlements.

**Course Structure:**

Unit- I	Urban planning: Definition, meaning, Objectives of town planning. Economic justification of town planning. Site for ideal town and its Requirements, town & its characteristics. planning for modern town. Significance of urban planning.	05 hours
Unit- II	Urban planning-Evolution of planning- Principles and practices-History of Urban planning in India –Ancient, Medieval and Modern. Master plan for large cities-its need purpose and scope.	10 hours
Unit- III	Planning for Built-up area: Planning for housing, Industries and Commerce. Urban growth models & theories of urban land use and its utility. Master Plan a case study Belgaum city.	10 hours
Unit- IV	Definition of Slum-Census of slums-Slum clearance and its Programmes, planning for Prevention of slum formation, Effects of slums, and slum clearance.	10 hours
Unit-V	Urban planning in India- policies issues problems involved-Urban land values, problems & prospects. Urban landuse survey. Use of GIS Technique in urban planning.	10 hours

**REFERENCE:**

1	Alexander J.W.(1991)	Economic Geography. Prentice Hall of India. Delhi.
2	Claire	Hand Book on Urban planning.
3	Carter H.(1975)	The study of urban geography. E. Arnold, London.
4	David Peter & Hopkinson M.(1983)	The geography of settlements, Oliver & Boyot, Ed.
5	Haggett Peter (1991)	Geography a modern synthesis Harper & Row N Y
5	Johnston J.H.(1974)	Urban Geography, Pergoman Press, Oxford.
6	Johnston R.,J.(1984)	City & Society. Unwin hyman, London.
7	King L.J.& Golledge R.G.(1978)	Cities, space & Behavior, Prentice Hall, Engle wood cliff, New Jersey.
8	Mandal R.B.(2000)	Urban Geography, Concept Publishing Co. Delhi.
9	MayerH.M.&Cohen1967)	Readings in Urban Geography, Central Book depot. Allahabad.
10	Northam ray M.(1975)	Urban Geography, John Willey & Sons, New York.
11	Rangwala.S.C	Town Planning, Charotar publishing house, India
12	Ramachandran R.(1991)	Urbanization and Urban Systems in India, Delhi.
13	Robinson,Brian T(1973	Urban growth, Mathuen & Company, London.
14	Sidhartha K. & Mukherjee. S.(2000)	Cities-Urbanizations & Urban Systems. Kisalaya pub. Pvt.Ltd.,New Delhi.
15	Sundaram K.V	Urban and Regional planning in India.



**RANI CHANNAMMA UNIVERSITY, BELAGAVI**

Department of Studies in Geography

(Choice Based Credit System)

**M. Sc IV<sup>th</sup> Semester Geography****PAPER – 4.5 CONVENTIONAL AND GPS SURVEYING****(Practical - I)**

**Objectives:** The objective of this course is to introduce to the students about some basic information and concepts of survey and its various methods. Further this course aims to train the students to handle these survey instruments and to understand techniques towards measuring analyzing the area.

**Course Structure:**

Unit- I	Definition, Meaning and Purpose of Surveying-Types of surveying: Advantages of surveying- Use of conventional and GPS survey.	08 hours
Unit- II	Plane Table survey: working principles of the instrument. Methods: Method of Resection and Intersection survey.	10 hours
Unit- III	Dumpy Level survey: working principle of the dumpy level- Methods: Simple and differential leveling, Interpolation method. Prismatic Compass: working principles of the prismatic compass. Method of plotting closed method and Open Traverse method.	10hours
Unit- IV	Theodolite Survey: working principles of the Instrument - Methods: Measurement of Vertical objects/angles and measurement of Horizontal angles.	08 hours
Unit-V	GPS Survey (Global Positioning System): Introduction, Functions, Space segment, control segment, user segment. Uses of GPS Technology-Location, Navigation, Tracking, Mapping and Timing. Calculation of distance, Survey with GPS.	10hours

**REFERENCE:**

1	Gopal Singh	Map Work and Practical Geography, 3rd edition, Vikas Publishing House New Delhi,
2	Gupta K.K and Tyagi V.C	Working with maps Survey of India Department of Science and Technology, Govt. of India, Dehra Dun 1992.
3	Mishra R.P	Fundamentals of Cartography 1969, Prasaranga, University of Mysore, Mysore.
4	Punmia P.C	Surveying, Laxmi publication, New Delhi, 2005.
5	Rampal	Surveying, Mittal Publication, Meerat, 2002
5	Singh. R.L	Elements of Practical Geography Kalyani Publishers, New Delhi, 1979.
6		
7		

**RANI CHANNAMMA UNIVERSITY, BELAGAVI**

Department of Studies in Geography

(Choice Based Credit System)

**M. Sc IV<sup>th</sup> Semester Geography**

**PAPER-4.6 FIELD WORK AND DISSERTATION**

**(Practical - II)**

**Objectives:** The objectives of this course are to understand the spatial and structural dimensions of population and emerging issues. The course is further aimed at familiarizing the students with global and regional level problems and also equips them for comprehending the Indian situation.

**Course Structure:**

Unit- I	Methods of field investigation and its importance in Geography.	05 hours
Unit- II	Field work of different areas and area levels (micro-meso-macro).	05 hours
Unit- III	Method of Collection of field data, Sampling methods and Preparation of Questionnaires and its importance.	10 hours
Unit- IV	Data input, processing, representation, analysis and interpretation. (using computer and GIS techniques) Report writing.	20 hours

- Note: 1.** Study tour and dissertation work is compulsory for the duration of ten days. The submission of final dissertation work( book form) to the department before the commencement of final exam.
- 2.** The concerned staff member should to select a topic only at village/ block/taluka and district level with intensive field work for the preparation of dissertation report.

**SCHEME OF EVALUATION:**

a) Preparation of dissertation:50 - Marks

b) Internal Test :20 - Marks

c) Viva- voce: 30 - Marks.

**Total Marks:100 Marks**

**REFERENCE:**

1	Anderson, J. Durston, B.H. & Poole, M, (1970)	Thesis and Assignment Writing, Wiley Eastern Ltd, New Delhi
2	Cooray, P.G (1992)	Guide to Scientific and Technical Writing, Handagala, Srilanka
3	Davis J.C. (1986)	Statistics and data Analysis, John Wiley and Sons NY.
4	Fitz Gerald, B.P. ed (1974	Science in Geography, Series 1, 2, 3, 4, 5, 6. Oxford University press, London
5	Hang, L.L. and Lounsbury, J.F. (1971)	Research Methods in Geography, Brown company Publishers, Iowa
5	Kothari, C. R.(1990)	Research methodology, methods and Techniques Vishwa Prakashan, New Delhi.
6	Mishra, R.P.(1991)	Research methodology in Geography. Concept Publishing, New Delhi.

