

**Syllabus Prescribed for M.A. Third Year PG Programme
Programme: M.A. Geography**

Semester IV Paper – I

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
DSC-1.4 AGG	Agricultural Geography	60 Periods of 1 hours

Cos:-

1. Introduced the students to the basic principles and concepts in Agriculture Geography
2. Acquainted with the applications of Agriculture Geography in different areas and development.
3. Incorporated and understand the various factors of Agriculture development.
4. Acquainted with the dynamic aspect of Agriculture Geography.

Unit	Content	
Unit I	Definition, nature, scope and significance of Agricultural Geography, Various approaches to the study of Agricultural Geography, Origin and dispersal of Agriculture.	Period 10
Unit-II	Determinants of Agricultural pattern – Physical, Economic, Social and Technological, Agricultural Systems – Location, Distribution, Types and characteristics of agriculture, General pattern of world Agriculture, Pressure of population of Land	Period 12
Unit III	Agricultural regionalization : concept and Techniques of delimitation of Agricultural Regions – Cropping pattern, Crop combination, Concentration and diversification pattern, Regional patterns of Agricultural productivity, Degree of commercialization, Patterns of crop rotation	Period 14
Unit-IV	Agricultural land use models – Significance of Agricultural models, Limitations of models, Classification of Agricultural models, Von-thunen’s Model, Jonasson’s Model	Period 12
Unit- V	Agricultural in India – Land use patterns in India, Regional patterns of productivity in India, Crop combination regions in India, Dryland agricultural, Food security, Problems of Indian Agriculture, Agricultural policy in India, Green Revolution, White revolution, Globalization and Indian Agriculture.	Period 12

References :

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Programme: M.A. Geography**

Semester IV Paper – II

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
DSC-II.4/ ECG	Economic Geography	60 Periods of 1 hours

Cos

1. Define Economic Geography, understand its nature and scope, and explain its significance in the study of economic activities and regional development.
2. Identify and describe the fundamentals of Economic Geography, including the various approaches and methodologies used in analyzing economic processes and spatial patterns.
3. Comprehend the key concepts and principles in Economic Geography, such as the spatial distribution of economic activities, production, exchange, and consumption patterns.
4. Define marketing and assess its importance in economic activities and regional development.
5. Analyze the role of transportation in promoting interregional and intraregional trade and economic development.
6. Analyze the Transport Policy and Planning in India and its role in facilitating economic growth and regional connectivity.

Unit	Content
Unit I	Definition, nature and scope of Economic Geography, fundamentals of Economic Geography, Approaches and methodology in the study of Economic Geography, Concepts and principles in Economic Geography, Basis of economic processes : Production, Exchange and Consumption. Classification of economic activities. (Period 12)
Unit-II	Factors of location of economic activities – Physical, Social, Economic and Cultural, The factors for Industrial location, Theories of Industrial location – Alfred Weber, August Losh and Walter Isard theory, Selected branches of manufacturing - Iron and Steel Industry, Cotton Textile Industry, Chemical Industry. (Period 12)
Unit III	Definition and importance of marketing, Classification of market centers Locational Analysis, Spatial pattern, Components of market morphology, Types of shopping centers, Delimitation of market areas - Empirical and Theoretical methods. .(Period 12)
Unit-IV	Transportation: Factors associated with the development of transport system, Characteristics and relative significance of modes of transportation, Accessibility and connectivity, Transport cost Theory of Edgar M. Hoover. .(Period 12)
Unit- V	Economic development of India: Regional disparities, Salient features of Indian economy, Role of Agriculture in economic development of India, Industrial policy of India, Special economic zones, Transport policy and planning in India. (Period 12)

References :

- 1) Alexander J.W. (1976) : 'Economic Geography, Prentice Hall of India, New Delhi.
- 2) Alexandersson (1988) Gunnar : 'Geography of Manufacturing,' Prentice Hall of India Pvt. Ltd., New Delhi.
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- 19) Knox P Agnew,J (2008) and Mccarthy L : 'The Geography of World Economy,' Hodder Arnold, London.
- 20) Knowles, R & (1990) Wareing, J : 'Economic and social Geography,' Heinemann Professional Book London.
- 21) Losh August (1954) : 'Economics of Locations,' Yale University Press, New York.
- 22) Rabinson, H (1978) & Bomford, C.G. : 'Geography of Transport,' Macdonald and Evans, U.S.A.
- 23) Redcliff, M. (1987) : 'Development and the Environmental Crisis,' Methuen, London.
- 24) Roy Prithwish (2000) : 'Economic Geography - A Study of Resources,' New Central Book Agency (P) Ltd, Kolkata.
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- 26) Saxena H.M. (1984) : 'Geography of Marketing,' Sterling Publishers, New Delhi.
- 27) Sinha B.N. (1971) : 'Industrial Geography of India.'
- 28) Smith, D.M. (1971) : 'Industrial location: An Economic Geographical Analysis,' John Wiley and Sons, New York.
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Programme: M.A. Geography
Semester IV Paper – III

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
DSC-III.4 / GRS	Geography of Rural Settlement	45 Periods of 1 hours

COs-

1. Understand meaning, scope and significance
2. Understand size, spacing of Rural settlement and classification of Rural settlement
3. Know the social and economic issue in Rural settlement
4. Understand the Environmental issue in Rural settlement
5. Know the causes and consequences of Rural Migration
6. Understand the Role of GIS and Remote sensing in Rural Settlement.

Unit	Content
Unit I	Meaning and scope of Settlement Geography, Significance and development of Geography of Rural Settlements, Approaches in the study of Rural Settlement Geography, Evolution and development of Rural settlement from ancient to 21st century- Spatio-temporal dimensions and sequent occupancy. (Periods 9)
Unit-II	Distribution of Rural Settlements: size and spacing of Rural settlements, Types, forms and patterns of Rural settlements: Causes and effects, Functional classification of Rural settlements, Central places and rural service centers: Their nature, hierarchy and functions, Rural – Urban fringe – structure, characteristics and functions. (Periods 9)
Unit III	Social and economic issues in Rural Settlements – Poverty, Housing and Shelter, Deprivation and Inequality, Empowerment of women, Health care, Rural-urban interaction (Periods 9)
Unit-IV	Environmental issues in Rural settlements: Access to environmental infrastructure Water supply, Sanitation, Drainage, Occupational health hazards (Periods 9)
Unit- V	Rural Settlement in India : House types and field patterns of rural settlement in India Types of rural settlements in India, Causes and consequences of Rural migration, Measures of development of amenities and infrastructure in rural India, Problems of Rural settlements, Rural development planning in India, Role of GIS and Remote sensing in rural settlements. (Periods 9)

References :

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- 12) Mosely, M.J. (2005) : 'Rural Development : Principles and Practices,' Sage Publication, London.

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- 14) Panda, P.C. (1990) : 'Geomorphology and Rural Settlements in India,' Chugha Publication
- 15) Ramchandran, H.(1985): 'Village clusters and Rural Development,' Concepts Publication ,New Delhi.
- 16) Rao, E.N. (1986) : 'Strategy for Integrated Rural Development, B.R. Publication Co. Delhi.
- 17) Rappoport, A (1969) : 'House forms and Culture, Prentice Hall, New Jersey.
- 18) Sen, L.K. (ed)(1972) : 'Reading in Micro-level Planning and Rural Growth Centers, National Institute of Community Development, Hyderabad.
- 19) Singh R.Y. (1994) : 'Geography of Settlements' Rawat Publications, Jaipur.
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Semester IV Paper – IV

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
DSC-IV /HG	Human Geography (Elective)	45 Periods of 1 hours

Course Outcomes After completion of this course students will

1. Well aware of the basic concepts of human geography.
2. Understand the Approaches to study human geography
3. Acquaint with the knowledge of Space and Society.
4. Acquaint with the knowledge of tribe and Understand their problems India.
5. Understand the Contemporary Issues of Population

Unit	Content
Unit I	Introduction to Human Geography: Definition, Nature, and scope of human geography, Branches in human geography. (Periods 9)
Unit-II	Approaches to study human geography – Descriptive approach, Regional approach, Areal Differentiation approach and spatial organization approach. Quantitative revolution and locational analysis (Periods 9)
Unit III	Space and Society: Cultural Regions; Race; Religion and Language, Racial conflicts. (Periods 9)
Unit-IV	Major tribes, Tribal areas and their problems in India, Tribal Development Programmes in India, Need for Tribal Development Programmes in India. (Periods 9)
Unit- V	Contemporary Issues – Ageing of Population; Declining Sex Ratio; HIV/AIDS, Dengue, Covid-19 (Periods 9)

References :

1. Ahmed A., 1999: Social Geography, Rawat Publications.
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13. मानवी भूगोल (Marathi Edition) ए. बी. सवदी सर , पी. एस. कोळेकर

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Programme: M.A. Geography
Semester IV Paper – IV (Elective)

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
DSE-IV/MG	Medical Geography	45 Periods of 1 hours

COS:-

1. Acquaint the students with the role of geographical factors, viz., physical, demographic, social and economic, influencing the spatial distribution of diseases;
2. Highlight the relation of health with nutrition, environmental degradation and urbanization;
3. Decipher the causes of the changing disease pattern,
4. Make the students abreast of existing health-care facilities, so as to train them with better health care planning for the country.

Unit	Content
Unit I	Introduction to Medical Geography Nature, Scope and Recent Trends in Medical Geography. Geographical factors affecting human health with special reference to physical, social, economic, environmental and diseases arising from them. (Periods 9)
Unit-II	Classification of diseases: genetic, communicable and non-communicable; (Periods9) occupational and nutritional deficiency diseases; WHO classification of diseases,
Unit III	Ecology, etiology and transmission of major diseases: cholera, malaria, tuberculosis, hepatitis, leprosy, cardiovascular, cancer, COVID-19, AIDS and STDS; Diffusion of diseases and its causes.. (Periods 9)
Unit-IV	Health Care and Service Systems special reference to India, Spatial Aspects of Health Care Planning (Periods 9)
Unit- V	Health Care - National level, with special reference to Government and NGOs; Availability, accessibility and utilization of health care services; Primary health care; Inequalities in health care services in India; family welfare, immunization, national disease eradication, and Health for All programmes, Health care response to COVID-19. (Periods 9)

References:

1. Akhtar, R. and Learmonth, A.T. (1986) : Geographical Aspects of Health and Disease in India, Concept Publishers, New Delhi
2. Brown et.al eds (2010): A Companion to Health and Medical Geography, London, Blackwell.
3. Cliff, A. and Haggett, P. (1989): Atlas of Disease Distribution. Basil Blackwell, Oxford.
4. Curtis, S & Taket, A. (1996): Health and Societies: Changing Perspectives, London, Arnold. Digby, A. and Stewart, L. (eds.) (1996): Gender, Health and Welfare. Routledge, New York.
5. Eastwood, Martin (2003): Principles of Human Nutrition Oxford, Blackwell.
6. Gatrell, A.C. (2002): Geographies of Health, Oxford, Blackwell.
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18. संजय कपले /विजय खराते २०२२ वैद्यकीय भूगोल प्रीतम पब्लिकेशन जळगाव.
19. श्रीमती सुधा नारायण १९८० आहार विज्ञान रिसर्च पब्लिकेशन जयपूर
20. डी.डी.चौरसिया १९९१ बाल एव शिशु रोग चिकित्सा प्रकाशन नई दिल्ली.

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Programme: M.A. Geography

Semester- IV

DSC- I.4 Lab Practical Paper –I

Code of the Course/Subject	Title of the Course/Subject (Laboratory/Practical/practicum/hands-on/Activity)	(No.of Periods/Week)
DSC-I..4	Lab Practical-I	2 Periods of 2hours / Week/ Batch

*** List of Practical/Laboratory Experiments/Activities etc.**

Unit	Content	
Unit I	Statistical & Cartographic Analysis of Economic Attributes : Economic Maps and Diagrams. i) Lorenz curve ii) Ergograph iii) Triangular graph iv) Accessibility Isopleths :Isochrone v) Simple and Semi - Logarithmic graph. vi) Compound Graph vii) Poly Graph viii) Columnar diagrams. ix) Divided Rectangles x) Star diagrams.	Marks 20
Unit-II	Statistical and Cartographic Analysis of Agricultural Attributes. 1) Determination of Suitability of Crop : Relative Yield Index,Relative Spread Index. 2) Crop Concentration: Cropping Intensity, The location Quotient Method : Index of Crop Concentration. 3) Crop Combination: Weaver’s Method, Doi’s Method, Rafiullah’s Method. 4) Crop Diversification Index of crop Diversification: Bhatia’s Method. 5) Measurement of Agricultural Productivity by Kendall’s Method. 6) Carrying Capacity Index. 7) Measurement of Agricultural Efficiency.	Marks 20
Unit III	Methods of Measuring the Spatial Distribution of Manufacturing Industries. Location quotient, Co-efficient of Geographic Association, Index of Concentration, Theoretical Measures of Transport Network, Measurement of Accessibility, Models of Network Change, Linear Programming and Gravity Models. Breaking Point Theory, Trade Area Delimitation.	Marks 20
Unit-IV	Visit to Industrial area / Agriculture Produce Market Committee (Krishi Utpann Bazar Samiti) Vegetable, Fruits, Food grains, Wholesale – Retail Markets / Road Transport Office (RTO)/ State Transport Corporation (ST)/Four Wheelers, Two Wheelers Show Room etc. On the basis of observations, Students are expected to carry out field work and generate necessary data, analyze it and prepare a comprehensive visit report –supplemented with maps, sketches and photographs, to submit at the time of examination. Viva-voce on visit Report.	Marks 20
Unit- V	Viva Voce and practical Record Book.	Marks 20

Reference-

- 1) Ali, M. (1979) : ‘Dynamics of Agricultural Development in India,’ Concept Publication, New Delhi.
- 2) Alexander, J.W. (1993) : ‘Economic Geography,’ Prentice Hall, New Jersey.
- 3) Alexandersson (1988) Gunnar : ‘Geography of Manufacturing,’ Prentice Hall of India Pvt. Ltd., New Delhi.
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- 11) Kansky, N.T. (1965) 'Structure of Transport Network,' Hermant Publication, New York
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- 24) Singh Jasbir (2004) and Dhillon, S.S. : 'Agricultural Geography,' Tata Mac Graw Hill Publication, New Delhi.
- 25) Singh R.L. (1990) : 'Elements of Practical Geography,' Kalyani Publishers, New Delhi Ludhiana
- 26) Symon, L. (1968) : 'Agricultural Geography,' London
- 27) Yeats, M.H. (1978) : 'Structure of Transport Network,' Harmant Publication , New York.

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Semester- IV

DSC-II.4 Lab Practical Paper –II

Code of the Course/Subject	Title of the Course/Subject (Laboratory/Practical/practicum/ hands-on/Activity)	(No. of Periods/Week)
DSC-II.4	Lab Practical-II	2 Periods of 2hours / Week/ Batch

*** List of Practical/Laboratory Experiments/Activities etc.**

Unit	Content	
Unit I	Conceptual Foundation of Research : Meaning, Objectives and Types of Research, Research Approaches, Significance of Research, Selection of Research Topic and Study Area, Research Processes, Research Problem, Research Design.	Marks 20
Unit-II	Sources of Data, Methods of Data Collection, Processing and Analysis of Data Sampling Techniques and Fundamentals, Construction of Hypothesis sand their Testing, Review of Literature, Quotations, Footnotes, References and Bibliography	Marks 20
Unit III	Study Tour and Study Tour Report: Study Tour is to be organized to any places having geographical importance. The students shall conduct a field survey pertaining to physical features, local flora and fauna, Settlement structure, Life style of the people, Local markets etc. Students should adopt any suitable methods for the collection of data at tourist places.	Marks 20
Unit- IV	On the basis of information collected and observations, the students shall prepare and submit tour report supplemented with maps, sketches and photographs. Viva- Voce on study tour report.	Marks 20
Unit- IV	Viva Voce and practical Record Book.	Marks 20

References :

- 1) Aaglawe Pradip (2000) : 'Research Methodology and Techniques,' Vidya Prakashan, Nagpur (Marathi)
- 2) Archer J.E. (1968) & Dalton, T.H.: 'The field work in Geography,' Et. Batsford Ltd., London.
- 3) Ackoff, Robert, L(1953): 'The Design of Social Research,' Chicago.
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Programme: M.A. Geography

Semester- IV

Research project Phase II

Code of the Course/Subject	Title of the Course/Subject (Laboratory/Practical/practicum/ hands-on/Activity)	(No. of Periods/Week)
GRP-II	Research Project Phase -II	2 Periods Theory of 1 hours & 2 Periods Practical of 2 hours /Week

1. Data Collection:

- Use a combination of primary and secondary data collection methods:
- Primary data: Field observations, surveys, interviews, and measurements.
- Secondary data: Maps, satellite imagery, census data, government reports, etc.
- Gather information on elements like landforms, climate, population, land use, economic activities, etc.

2. Fieldwork:

- Conduct on-site visits to the study area to gather primary data.
- Observe and document geographical features and processes

3. Data Analysis:

- Organize and analyze the collected data using appropriate geographical techniques (e.g., GIS software, statistical analysis).

4. Interpretation and Findings:

- Interpret the results obtained from data analysis.
- Draw conclusions about the geographical patterns and processes observed in the study area.

5. Presentation and Report:

- Create a comprehensive report or presentation summarizing your field project.
- Suggest measures based on the findings in the report
- Include maps, charts, images, and graphs to support your findings.

References:-

- 1) अन्नदाते शशिकांत, अन्नदाते स्वाती, (२०१९) संशोधन पद्धती, के-सागर पब्लिकेशन
- 2) पाटील महेंद्र, (२०००). संशोधन पद्धती, अथर्व पब्लिकेशन, जळगाव
- 3) भाटकर सुधीर, निताळे विनोद, (२०२१) संशोधन पद्धती, अथर्व पब्लिकेशन, जळगाव
- 4) Kothari C.R., (2004), Research Methodology Methods and Techniques, New Age international Publication New Delhi
- 5) Sarode Anil, Bhagat P.B.,(2019). Research Methodology, Prashant publication