
SEMESTER- V

MAJOR COURSE- MJ 9: ECONOMIC GEOGRAPHY

Marks: 25 (5 Attd. + 20 SIE: 1Hr) + 75 (ESE: 3Hrs) = 100	Pass Marks: Th (SIE + ESE) = 40
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(Credits: Theory-04) 60 Hours

*Instruction to Question Setter**Semester Internal Examination (SIE 20+5=25 marks):*

The Semester Internal Examination shall have two components. (a) One Semester Internal Examination Written Test (SIE) of 20 Marks. (b) Class Attendance Score (CAS) including the behaviour of the students towards teachers and other students of college of 5 marks.

End Semester Examination (ESE 75 marks):

There will be two groups of questions A and B. Group A is compulsory which will contain three questions. Question No. 1 will be very short answer type consisting of five questions of 1 mark each. Questions No. 2 & 3 will be short answer type of 5 marks each. Group B will contain descriptive type seven questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in the questions of group B.

Course Objective:

The Learning objective of this course are as follows

1. To familiarise students about nature, scope and importance of economic geography
2. To explain the concepts of industrial location, various types of economic activities

Course Learning Outcomes:

After the completion of course, the students will have ability to:

1. Distinguish different types of economic activities and their utilities.
2. Appreciate the factors responsible for the location and distribution of activities.
3. Examine the significance and relevance of theories in relation to the location of different economic activities.



Course Content:

Module 1: Nature, scope and importance of Economic Geography, Spatial Structure of Economy, Factors Affecting location of Economic Activity with special reference to Agriculture (theory of agricultural location (Von Thunen), Industry: Industrial location (Weber's and Losch theory)

Module 2: Primary Activities: Subsistence and Commercial agriculture, forestry, fishing and mining, Subsistence and commercial Economic Activities: Fishing ground and aquaculture, Issues and challenges for the Development of Fishing and forestry.

Module 3: Secondary Activities: Manufacturing, Concept of Manufacturing Regions (Cotton Textile, Iron and Steel), Special Economic Zones and Technology Parks, Knowledge-based Technologies, Electronic age, spatial information Technology, Telecommunication

Module 4: Tertiary Activities: Transport (Land, Air, Water and Pipelines), Trade (National and International) and Services: Economic growth and Development: Definition, concept of Development and Sustainable Development, Human Resource development: concept, Measurement, indicators and component

Reading List

1. Alexander J. W., 1963: Economic Geography, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
2. Coe N. M., Kelly P. F. and Yeung H. W., 2007: Economic Geography: A Contemporary Introduction, Wiley-Blackwell.
3. Hodder B. W. and Lee Roger, 1974: Economic Geography, Taylor and Francis.
4. Combes P., Mayer T. and Thisse J. F., 2008: Economic Geography: The Integration of Regions and Nations, Princeton University Press.
5. Wheeler J. O., 1998: Economic Geography, Wiley..
6. Durand L., 1961: Economic Geography, Crowell.
7. Bagchi-Sen S. and Smith H. L., 2006: Economic Geography: Past, Present and Future, Taylor and Francis.
8. Willington D. E., 2008: Economic Geography, Husband Press.
9. Clark, Gordon L., Feldman, M.P. and Gertler, M.S., eds. 2000: The Oxford

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SEMESTER- V

MAJOR COURSE- MJ 10: WORLD REGIONAL GEOGRAPHY

Marks: 25 (5 Attd. + 20 SIE: 1Hr) + 75 (ESE: 3Hrs) = 100	Pass Marks: Th (SIE + ESE) = 40
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(Credits: Theory-04) 60 Hours

Course Objective:

The Learning objectives of this course are as follows

1. To explain the physical features, drainage and climatic features of continents
2. To familiarize students about major physiographic regions of continents

Course Learning Outcomes:

After the completion of courses, the students will have ability to:

1. Locate physical features of the world's major continents.
2. Understand climatic conditions and climatic patterns of the continents.
3. Understand the drainage of the continents

Course Content:

Module 1- Asia- Physical features, Drainage & Climatic condition & Climatic Regions; agriculture and major industry; geographical account of Great plains of China, Indus basin

Module 2- Europe- Physical features, Drainage & Climatic condition & Climatic Regions, agriculture and major industry, geographical account of Steppes grassland, Rhine basin

Module 3- North America- Physical features, Drainage & Climatic condition & Climatic Regions, agriculture and major industry, geographical account of Appalachian Highland, Central Plains

Module 4- South America- Physical features, Drainage & Climatic condition & Climatic Regions, agriculture and major industry, geographical account of Pampas, and Amazon Rainforest;

Module 5- Australia & New Zealand (Oceania) Physical features, Drainage & Climatic condition & Climatic Regions, agriculture and major industry, geographical account of Dawns grassland, and Great Sandy desert

Reading List

1. Douglas, L. Johnson.,(2009): World Regional Geography, Tenth edition, Pearson Education Inc, New Jersey.
2. Baker, A. R. H. and Billinge, M. (forthcoming) Geographies of England: the North–South Divide, Imagined and Real (Cambridge)
3. Brigham, A. P. 1903 Geographic Influences on American History (Boston)
4. Brooks, C. E. P. 1926 Climate through the Ages (London).
5. Hussain, M. (2016) World Geography, Rawat Publications

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SEMESTER- V

MAJOR COURSE- MJ 11: PRACTICAL
(INSTRUMENTAL SURVEY, TOPOGRAPHICAL ANALYSIS AND SOCIO-ECONOMIC
PROJECT WORK)

<i>Marks: Pr (ESE: 3Hrs) =100</i>	<i>Pass Marks: Pr (ESE) = 40</i>
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(Credits: Theory-04) 120 Hours

Practicals:**Course Objective:**

The Learning objectives of this course are as follows

1. To familiarise students about the various Instruments, methods, tools and techniques of ground survey
2. To make students learn and apply project development, carrying out the primary survey for data collection

Course Learning Outcomes:

After the completion of courses, the students will have the ability to:

1. Understand the importance of field-work, types of surveys and application of instruments for levelling
2. Handle and apply the instrument
3. Synthesis and develop the idea of the project work on the basis of the secondary and primary survey.

NOTE: There can be sub-division in the module

Course Content:**Module I :**

Importance of field-work, Scope and purpose, Types of survey, Principles and applications of selected survey instruments, Plane Table, Plan preparation, Resection method: trial and error method, three-point problem, tracing paper method

25 Marks.

Module II

Drawing and analysis of profiles and transect chart with interpretation, Relative Relief map by Smith method, Average slope map by Wentworth method, Average Relief map and absolute relief map

25 Marks.

Module III :

Socio-economic project work based on primary or secondary data sources

25 Marks.

Module IV:

Practical Notebook + Viva-voce

15+10=25 Marks.

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Practical Record:

- a. Practical record book- at least one exercise from all the topics.
- b. Module IV- a project report- word count of the report should be about 5,000 to 8,000 excluding figures, tables, photographs, maps, references and appendices

Reference Books:

- * Robinson A.JI (1995) Elements of Cartography John Wiley & Sons USA
- * Sarkar A.K.(1997); Practical Geography :A Systematic Approach, Oriental Longman Calcutta
- * Sharma J.P.(2010); Prayogatmak Bhugol.(Hindi) Sahitya Bhawan. Agra
- * Monkhouse F.J and Wilkinson H.R (1952) Maps and Diagrams, their Compilations and Concentration, Muthuen & Co. London.
- * Harwel J.D. Newson M.D. (1973)- Techniques in Physical Geography. Mc. Millan Edu. Ltd. London.
- * Sarkar. A: Practical Geography – A Systematic Approach.
- * R.L. Singh (2010) Practical Geography. Sharada Pustak Bhavan. 11, University Road, Allahabad
- * Kaanetkar and Kulkarni: Surveying and Levelling, Part-I and Part-II.

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MINOR COURSE-IC

(SEM V)

MINOR COURSE- MN IC:

GEOGRAPHY OF INDIA AND JHARKHAND

Marks: 15 (5 Atttd. + 10 SIE: 1Hr) + 60 (ESE: 3Hrs) = 75

Pass Marks: Th (SIE + ESE) = 30

(Credits: Theory-03) 45 Hours

Course Objective:

Hours The Learning objective of this course are as follows-

1. To familiarise students about the physical features, climate and vegetation of India and Jharkhand
2. To make student learn about economic, and agricultural features of India and Jharkhand

Learning Outcomes:

After the completion of course, the students will have ability to:

1. Understand the physical profile of the India and Jharkhand
2. Study the resource endowment and its spatial distribution and utilization
3. Synthesize and develop the idea of regional dimensions.

Course Content:

Module 1- India: Physiographic Divisions, seasons, drainage, Soil and Natural vegetation Distribution of Population by Race, and Language of India.

Module 2- Economic features of India: Mineral and Power Resources: Distribution and Utilization of Iron Ore, Coal, Petroleum, Gas;

Module 3- Agricultural Production of Rice, Wheat; Industrial Corridors and Industrial Regions of India

Module 4- Regional Account of Jharkhand: Physiography, Drainage, Climate, natural vegetation, Population and tribes (Santhal, Oraon, Munda);

Module 5- Economic features of Jharkhand: Agriculture, minerals and industry -iron and steel industry, silk; Tourism

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Reference Books:

1. Deshpande, C. D., (1992): India: A Regional Interpretation, ICSSR, New Delhi.
 2. Johnson, B. L. C., ed. (2001): Geographical Dictionary of India. Vision Books, New Delhi.
 3. Khullar, D.R. (2014): India: A Comprehensive Geography, Kalyani Publishers, New Delhi.
 4. Majid Husain (2009): Geography of India, Tata McGraw hill Education Private Ltd, New Delhi.
 5. Mandal, R. B. (ed.), (1990): Patterns of Regional Geography An International Per.. Vol. 3 Indian Perspective.
 6. Pathak, C. R. (2003): Spatial Structure and Processes of Development in India. Regional Science Ass., Kolkata.
 7. Sharma, T.C. (2013): Economic Geography of India. Rawat Publication, Jaipur.
 8. Singh R. L., (1971): India: A Regional Geography, National Geographical Society of India.
 9. Singh, Jagdish., (2003): India - A Comprehensive & Systematic Geography, Gyanodaya Praka, Gorakhpur.
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MINOR COURSE- MN 1C PR:

MINOR PRACTICALS-1C PR

Marks: Pr (ESE: 3Hrs) = 25	Pass Marks: Pr (ESE) = 10 (Credits: Practicals-01) 30 Hours
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Instruction to Question Setter for

End Semester Examination (ESE):

There will be one Practical Examination of 3Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

Experiment = 15 marks

Practical record notebook = 05 marks

Viva-voce = 05 marks

Practicals:

Course Objective:

Module 1. Nature of data- primary and secondary, methods of data collection- Questionnaire and schedule. Statistical Techniques- Mean, Median and Mode

Module 2. Instrumental Survey- Plane table (radiation and intersection method), Prismatic compass survey (Open and Closed traverse)

Reference Books:

1. Singh, L. R (2013) : Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad
2. Singh and Singh (1999): Elements of Practical Geography, Kalyani Publishers, New Delhi.

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MINOR COURSE-ID

(SEM VII)

MINOR COURSE- MN 1D:

ENVIRONMENTAL GEOGRAPHY & SUSTAINABLE DEVELOPMENT

Marks: 15 (5 Attd. + 10 SIE: 1Hr) + 60 (ESE: 3Hrs) = 75

Pass Marks: Th (SIE + ESE) = 30

(Credits: Theory-03) 45 Hours

Course Objective:

The Learning objectives of this course are as follows-

1. To familiarise students about structures, functions of ecosystems, environmental problems
2. To make students learn about sustainable development

Course Learning Outcomes:

After the completion of course, the students will have ability to:

1. Appreciate the structure and functions of ecosystems with examples
2. Understand the environmental problems and relevant management strategies
3. Understand the sustainable development, good governance, national environmental policy

Course Content:

Module 1- Environmental Geography: Concepts and Approaches; Ecosystem – Concept and Structure; Ecosystem Functions.

Module 2- Environmental Problems and Management: Air Pollution; Solid and Liquid Waste; Biodiversity Loss

Module 3- Sustainable Resource Development: Definition, Components and Limitations

Module 4- The Millennium Development Goals: National Strategies and International Experiences

Module 5- Sustainable Development Policies and Programmes: The proposal for SDGs at Rio+20; SDGs; Principles of Good Governance; National Environmental Policy

Reference Books:

1. Anand, Subhash (2010) Solid Waste Management, Mittal Publication, New Delhi.

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2. Cusper, J.K., (2010) Changing Ecosystems: Effects of Global Warming, Intabase Pub, New York.
 3. Kumaraswamy K., Alagappa Moses A., and M. Visanthi (2018) Glimpses of Environmental Sciences, Notion Press, Chennai.
 4. Miller, G.I. (2007) Living in the Environment: Principles, Connections, and Solutions, Brooks/ Cole Cengage Learning, Belmont.
 5. Agyeman, Julian, Robert D. Bullard and Bob, Evans., (Eds.) (2003): Just Sustainabilities: Development in an Unequal World, London: Earthscan. (Introduction and conclusion.).
 6. Ayers, Jessica and David, Dodman., (2010): "Climate change adaptation and development I: the state of the debate", Progress in Development Studies 10(2): 161-168.
 7. Baker, Susan., (2006): Sustainable Development, Milton Park, Abingdon, Oxon: New York, N.Y.: Routledge.
 8. Lohman, Larry., (2003):Re-imagining the population debate, Corner House Briefing
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MINOR COURSE- MN 1D PR:

MINOR PRACTICALS-1D PR

Marks: Pr (ESE: 3Hrs) = 25

Pass Marks: Pr (ESE) = 10

(Credits: Practicals-01) 30 Hours

End Semester Examination (ESE):

There will be one Practical Examination of 3Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

Experiment = 15 marks

Practical record notebook = 05 marks

Viva-voce = 05 marks

Practicals:

Course Objective:

The Learning objective of this course are as follows-

1. To explain the concept of quantitative information in Geographical study.
2. To explain the importance and sources of data
3. To familiarise students about methods of graphic data representations

Course Learning Outcomes:

After the completion of course, the students will have ability to:

1. Use statistical methods and techniques in geographical analysis
2. Understand quantitative data, graphical data representation.
3. Understand ways and sources of primary and secondary data

Course Content:

Module 1- Sources of Data- primary, secondary; Measures of central tendency- Mean, median and mode

Module 2- Graphic representation- histogram, Ogive, polygons

Reference Books:

1. Mahmood A., 1977: Statistical Methods in Geographical Studies, Concept. Pal S. K., 1998: Statistics for Geoscientists, Tata McGraw Hill, New Delhi.

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2. Sarkar, A. (2013) Quantitative geography : techniques and presentations, Orient Black Swan Private Ltd., New Delhi
 3. Silk J., 1979: Statistical Concepts in Geography, Allen and Unwin, London. Spiegel M. R.: Statistics, Schaum's Outline Series.
 4. Yeates M., 1974: An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York.
 5. Shinha, Indira (2007) Sankhyiki bhugol, Discovery Publishing House, New Delhi
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