

**GOVT. DIGVIJAY AUTONOMOUS P.G. COLLEGE,
RAJNANDGAON**



**TEACHING PLAN
2022-2023**

DEPARTMENT OF GEOGRAPHY

Govt. Digvijay PG Autonomous College Rajnandgaon
BA Geography
Semester – I
Syllabus 2022-2023

T.P.

<u>Theory</u>	Unit & Hours	Contents	
Core Course 1 Course Name: Geomorphology Credits : 4 Hours : 60	I - 15	Definition, Nature and Scope of Geomorphology (4), Interior of the Earth (3), Mountain Building Theory of Kober (4). Geological Time Table (4).	Sept.
	II- 15	Continental Drift (4). Plate Tectonics (4). Earthquakes (3). Volcanoes (4).	Octo
	III- 15	Concept of Gradation: Weathering (4). Mass Wasting (3) and Erosion - Cycle of Erosion of W.M. Davis and Walther Penck (6). Comparison – Weathering & Erosion and Davis & Penck (2).	Nov.
	IV- 15	Erosional Landforms: Fluvial -3. Aeolian -3. Costal -3. Glacial -3. Karst -3.	Dec.
Practical - 1 Course Name: Cartographic Methods & Study of Weather Map. Credits : 2 Hours : 30	Scale - 15	Definition. Types and Construction – Plain, Comparative and Diagonal	Nov.
	Weather Map - 15	History, Symbols, Low Pressure & High Pressure, Weather Map Interpretation – Summer, Winter and Monsoon.	Dec.

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Dr. K. N. Prasad

Dr. Shushma Yadav

Shri K. K. Dwivedi

Dr. S. K. Das

Dr. A. K. Mishra

Dr. S. Jeyamani

Ku. Tameshwari Sahu

Shri Basant Bahekar

Govt. Digvijay PG Autonomous College Rajnandgaon
BA Geography
Semester – II
Syllabus 2022-2023

<u>Theory</u>	<u>Unit & Hours</u>	<u>Contents</u>	<u>T. P.</u>
Core Course 2 Course Name: Human Geography and Cultural Landscape Credits : Hours : 60	I - 15	Definition, Nature and Scope of Human Geography (4). Evolution & Growth of Human Geography (3). Relation of Human Geography with Other Social Sciences (2). Natural Determinism, Possibilism & Neo-Determinism (6).	Jan.
	II- 15	Population – Growth (2), Distribution (2), Composition- Age (2), Sex (2), Marital (2) and Occupational (2). Theory of Population – Malthus and Over-Population (3).	Feb.
	III- 15	Races (3). Tribes (3) Religion (3) Languages (3) Cultural Regions (3).	Mar.
	IV- 15	Settlement – Types & Patterns (4) Rural Settlements -3. Urban Settlements -3. Urbanization – Trends & Patterns -3. Regional Resource Development -3.	April
	Central Tendency - 14	Mean – Definition, Merits & Demerits and Usages (3) Individual Series, Discrete Series and Continuous Series (6). Median and Mode (6).	Feb.
Practical - 2 Course Name: Statistical Methods Credits : 2 Hours : 30	Deviation - 6	Mean Deviation (2), Standard Deviation (2) And Coefficient of Variation (2).	Mar.
	Graphical Representation of Data - 8	Bar Diagram – Simple Bar (2). Mixed Bar (2), Composite Bar (2). Line Graph (2).	May.

Dr. K. N. Prasad

Dr. Shushma Yadav

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Dr. S. Jeyamani

Ku. Tameshwari Sahu

Shri Basant Bahekar

Syllabus & Teaching Plan

B.A./B.Sc. Part II

CUCEI

2022-23

Dr K N PRASAD

PAPER - I

ECONOMIC AND RESOURCES GEOGRAPHY

Max. Marks: 50

(Paper Code-0187)

T.P.

- Unit I Meaning, scope and approaches to economic geography; Main concepts of economic geography; Resource: concept and classification; Natural resources: soil, forest and water. Sep - Oct
- Unit II Mineral resources: iron ore and bauxite; Power resources: coal, petroleum and hydro electricity; Resource conservation; Principal crops: wheat, rice, sugarcane and tea. Nov.
- Unit III Agricultural regions of the world (Derwent Whittlesey); Theory of agricultural location (Von Thunen); Theory of industrial location (Weber); Major industries: iron and steel, textiles, petrochemical and sugar; industrial regions of the world. Dec.
- Unit IV World transportation: major trans-continental railways, sea and air routes; International trade: patterns and trends; Major trade blocks: LAFTA, EEC, ASEAN; Effect of globalization on developing countries. Jan.
- Unit V Conservation of resources; evolution of the concept, principles, philosophy, and approach to conservation, resources conservation and practices. Policy making and sustainable development. Feb.

Books Recommended:

1. Alexander, J. W. (1988): Economic Geography. Prentice-Hall, New Delhi.
2. Bryson, J., Henry, N., Keeble, D. and Martin, R. (eds.) (1999): The Economic Geography Reader: Producing and Consuming Global Capitalism. John Wiley and Sons, Inc, New York.
3. Clark, G. L., Gertler, M. S. and Feldman, M. P. (eds.) (2000): The Oxford Handbook of Economic Geography. Oxford University Press, USA.
4. Coe, N. (2007): Economic Geography: A Contemporary Introduction. Blackwell Publishers, Inc., Massachusetts.
5. Gautam, A. (2006): *Aarthik Bhugol Ke Mool Tattava*, Sharda Pustak Bhawan, Allahabad.
6. Guha, J. S. and Chatteraj, P.R. (2002): A New Approach to Economic Geography: A Study of Resources. The World Press Private Limited, Kolkata.
7. Hanink, D. M. (1997): Principles and Applications of Economic Geography: Economy, Policy, Environment. John Wiley and Sons, Inc, New York.
8. Hartshorne, T. A. and Alexander, J. W. (1988): Economic Geography (3rd revised edition) Englewood Cliff, New Jersey, Prentice Hall
9. Hudson, R. (2005): Economic Geographies: Circuits, Flows and Spaces. Sage Publications, London.
10. Knowles, R, Warcing, J. (2000): Economic and Social Geography Made Simple, Rupa and Company, New Delhi.

AK

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31.8.20

(Dr AKMISHRA)

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Syllabus & Teaching plan 2022-23

Dr. K. N. PRASAD

B.A./B.Sc. Part I

Dr. P. Vishwakarma

PAPER - III

Dr. A. K. Mishra

PRACTICAL GEOGRAPHY

Max. Marks: 50

Dr. S. Jenamani

SECTION A

CARTOGRAPHY AND STATISTICAL METHODS

(M.M. 25)

Unit I Scale, Statement Scale, Representative Fraction (R.F.), Linear scale - Simple, Diagonal, Comparative, and Time Scales.

Unit II Contour: Methods of showing relief; Hachures, Contours; Representation of different landforms by contours.

Unit III Graph and Diagram: Line graph, Bar Diagram (Simple and Compound), Circle Diagram, Pie Diagram

Unit IV Statistical Technique: Mean, Median and Mode

SECTION B

SURVEYING -

(M.M. 15)

Unit V Chain and Tape Survey, Triangulation method, Open Traverse and Closed Traverse

PRACTICAL RECORD AND VIVA VOCE

(M.M. 10)

Books Recommended:

1. Davis, R.E. and Foote, F.S. (1953) Surveying, 4th edition, McGraw Hill Publication, New York
2. Jones, P.A. (1968) Fieldwork in Geography, Longmans, Green and Company Ltd., First Publication, London
3. Monkhouse, F.J. and Wilkinson, F.J. (1985) Maps and Diagrams, Methuen, London
4. Natrajan, V. (1976) Advanced Surveying, B.I. Publications., Mumbai
5. Pugh, J.C. (1975) Surveying for Field Scientists, Methuen and Company Ltd., London, First Publication
6. Ratzel, F. (1962) General Cartography, John Wiley and Sons, New York 5th edition
7. Sarkar, A.K. (1997) Practical Geography - A Systematic Approach, Orient Longman, Kolkata
8. Sharma, J.P. (2001) *Pravogik Bhugol*, Rastogi Publication, Meerut 3rd edition
9. Singh, R.L. and Singh, Rana P.B. (1993) Elements of Practical Geography (Hindi and English editions), Kalyani Publishers, New Delhi.
10. Singh, L.R. (2006) Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
11. Venkatramanah, C. (1997) A Text Book of Surveying, Universities Press, Hyderabad.

T. P

Oct.

Nov.

Dec.

Jan.

Jan.

Dr. P. Vishwakarma

Dr. A. K. Mishra

Dr. S. Jenamani

S. J.

PAPER - II
GEOGRAPHY OF INDIA

Max. Marks: 50
(Paper Code-0188)

T.P.

- Unit I Physical Features: Structure, Relief, Climate, Physiographic Regions, Drainage, Climate-origin and mechanism of monsoon, and regional and Seasonal variations. Sep Oct
- Unit II Natural Resources: Soils - types, their distribution and characteristics. Water Resources (major irrigation and hydel power projects); Forests-types, distribution, economic significance and conservation. Mineral and Power resources-Iron-ore, Manganese, Copper, Coal, Petroleum and Natural gas, Non conventional sources of energy. Nov
- Unit III Cultural Features : Population - Growth, Density and Distribution. Agriculture, Major crops, impact of Green Revolution and Agricultural regions. Dec
- Unit IV Industries Localization, Development & Production - Iron and steel, Cotton Textile, Cement, Sugar, Transport, Foreign Trade. Industrial Region. Jan
- Unit V Detailed Study of the following regions of India : Kashmir Valley, North-Eastern Region, Chhota Nagpur Plateau, Thar Desert, Islands of India. Feb

Books Recommended:

1. Chauhan, P.R. and Prasad, M. (2003): *Bharat Ka Vrihad Bhugol*, Vasundhara Prakashan, Gorakhpur.
2. Farmer, B.H. (1983): *An Introduction to South Asia*. Methuen, London
3. Gautam, A. (2006): *Advanced Geography of India*, Sharda Pustak Bhawan, Allahabad
4. Johnson, B.L.C. (1963): *Development in South Asia*. Penguin Books, Harmondsworth
5. Krishnan, M.S. (1982): *Geology of India and Burma*, CAS Publishers and Distributors, Delhi
6. Khullar, D.R. (2007): *India: A Comprehensive Geography*, Kalyani Publishers, New Delhi
7. Nag, P. and Gupta, S. S. (1992): *Geography of India*, Concept Publishing Company, New Delhi
8. Rao, B.P. (2007): *Bharat ke Bhaugolik Sameeksha*, Vasundhara Prakashan, Gorakhpur.
9. Sharma, T.C. and Coutinho, O. (2003): *Economic and Commercial Geography of India*, Vikas Publishing House Private Ltd. New Delhi.
10. Singh, J. (2003): *India: A Comprehensive Systematic Geography*. Gyanodaya Prakashan, Gorakhpur
11. Singh, J. (2001): *Bharat: Bhaugolik Aadhar Avam Ayam*, Gyanodaya Prakashan, Gorakhpur
12. Singh, R.L. (ed.) (1971): *India: A Regional Geography*. National Geographical Society of India, Varanasi.
13. Spate, O.H. K., Learmonth A. T. A. and Farmer, B. H. (1996): *India, Pakistan and Sri Lanka*. Methuen, London, 7th edition.
14. Sukhwai, B.L. (1987): *India: Economic Resource Base and Contemporary Political Patterns*. Sterling Publication, New Delhi
15. Tiwari, R.C. (2007): *Geography of India*, Prayag Pustak Bhawan, Allahabad.
16. Wadia, D. N. (1959): *Geology of India*. Mac-Millan and Company, London and student edition Madras.

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Syllabus & Lecturing Klem

Dr. K N PRASAD

Dr. P. B.A./B.Sc. Part II
Vishwakarma
PAPER - III

20.21.2022-23

PRACTICAL GEOGRAPHY

Max. Marks: 50

SECTION A

MAP INTERPRETATION, PROJECTIONS AND STATISTICAL METHODS (M.M. 25)

Unit-I Distribution Maps: Dot Map, Choropleth Map and Isopleth Map.

Unit II Map Projections: Definition and classification; Conical, Zenithal, and Cylindrical Projections.

Unit III Interpretation of Weather Maps: Use of Meteorological Instruments.

Unit IV Statistical Methods: Quartile: Mean Deviation, Standard Deviation and Quartile Deviation; Relative Variability and Co-efficient of Variation.

T.P.

Oct

Nov.

Dec.

Jan.

SECTION B

SURVEYING

(M.M. 15)

Unit V Surveying: Whole Circle Bearing and Reduced Bearing, Methods of Prismatic Compass Survey.

PRACTICAL RECORD AND VIVA VOCE

(M.M. 10)

Books Recommended:

1. Alvi, Z. 1995 : Statistical Geography: Methods and Applications, Rawat Pub. New Delhi: .
2. Davis, R.E. and Foote, F.S. (1953): Surveying, 4th edition, McGraw Hill Publication, New York
3. Kanetker, T.P. and Kulkarni, S.V.(1967): Surveying and Levelling, Vol I and II V.G. Prakashan, Poona.
4. Natrajan, V. (1976): Advanced Surveying, B.I. Publications., Mumbai.
5. Pal, S.K. 1999 : Statistics for Geoscientists, Concept publishing Company, New Delhi
6. Punmia, B.C.(1994): Surveying, Vol I, Laxmi Publications Private Ltd, New Delhi.
7. Raisz, E. (1962): General Cartography. John Wiley and Sons, New York. 5th edition
8. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata.
9. Sharma, J. P. (2001): *Prayogik Bhugol.*, Rastogi Publication, Meerut 3rd. edition.
10. Silk, J. 1979 : Statistical techniques in Geography, George Allen and Unwin, London
11. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi,
12. Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
13. Venkatramaiah, C. (1997): A Text Book of Surveying, Universities Press, Hyderabad.

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Syllabus & Teaching Plan 2022-23

B.A. B.Sc. Part III Dr. K N PRASAD
PAPER - I
REMOTE SENSING AND GIS
Max. Marks: 50

Unit	Content	Time
Unit I	Basics of Remote Sensing definition, history, and Scope. Electro-magnetic Radiation. Characteristics. Spectral regions and Bands. Interaction with earth surface features and atmosphere; Spectral Signature	T.P. Sep-Oct
Unit II	Types of Remote Sensing: Air borne and Space borne. Aerial photos Types and Characteristics; Remote Sensing satellites: Platforms and sensors: active and passive, sensor characteristics, spatial resolution, spectral resolution, radiometric resolution, temporal resolution. Product.	Nov.
Unit III	Visual and Digital image processing techniques. Remote Sensing application in resource mapping and environmental monitoring, remote sensing in India development and Growth Indian Satellites, Space Organizations and data products	Dec.
Unit IV	Introduction of GIS: Definition of Geoinformatics. Scope and Importance of Geoinformatics, History of GIS. Components of GIS, Functions of GIS. GIS tasks- Input, Manipulation, Management, Query analysis, Visualization, Toposheets. Surveying, Aerial photographs, Satellite data and images, Data types-Spatial and Non spatial	Jan
Unit V	Data model and data analysis: Raster data and their characteristics, Vector data and their characteristics, Raster data analysis- grid cells or Pixels. Vector data analysis- Spatial data, Generation in Vector Format, Spatial and Non -Spatial data Management Spatial information Technology	Feb-Mar

Books Recommended:

1. Bhatta, B. (2010): Remote Sensing and GIS, Oxford University Press, New Delhi.
2. Campbell, J.B. (2002) Introduction to Remote Sensing 5th edition, Taylor and Francis, London
3. Curran, P. I. (1985) Principles of Remote Sensing, Longman, London
4. Kang-tsung Chang (2003) Geographic Information Systems, Tata McGraw Hill, New Delhi
5. Lillesand, T.M. and Kiefer, R.W. (2000) Remote Sensing and Image Interpretation 4th edition, John Wiley and Sons, New York
6. Lo Albert, C.P., and Young, K.W. (2003) Concepts and Techniques of Geographical Information Systems, Prentice Hall of India Pvt. Ltd., New Delhi
7. Nag Prithvish and Kudrat M. (1998). Digital Remote Sensing, Concept Publishing Company, New Delhi
8. Star J, and J. Estes, (1994). Geographic Information Systems An Introduction, Prentice Hall, New Jersey.
9. Williams J. (1995). Geographic information from space, John Wiley and Sons, England,

Dr. Subhina Yadav
29/01/2021

Dr. K N Prasad
29/6/21

Dr. K N Prasad
29/6/21

Dr. K N Prasad
29/6/21

Syllabus & Teaching Plan

2021-22

B.A./B.Sc Part III

PAPER - II

Dr. A.K. MISHRA

GEOGRAPHY OF CHHATTISGARH

Max. Marks: 50

T. P.

Unit I	Physical Features : Geological Structure, Relief and Physiographic Regions, Drainage, Climate.	Sep-Oct
Unit II	Natural Resources : Soils - Types, characteristics and their Distribution. Water Resources (Major Irrigation and Hydel Power Projects), Forests-types, Distribution, Conservation of Forest. Mineral Resources-iron-ore, Coal, Dolomite, Lime stone, Bauxite, etc. Power Resources of Chhattisgarh.	Nov
Unit III	Agriculture and Populations - Agriculture: Cereals, Pulses and other crops. Population: Growth, Distribution, and Density; Tribal Populations; and Urban and Rural Population.	Dec
Unit IV	Industries - Iron and Steel, Cement, Sugar, Aluminum; Industrial Regions of Chhattisgarh.	Jan
Unit V	Trade and Transport, Tourism, Socio-Economic Development of Chhattisgarh.	Feb-Mar

Books Recommended:

1. Jha, Vibhash Kumar and Saumya Nayyar (2013) Chhattisgarh Samagra, Chhattisgarh Rajya Hindi Granth Akadmi, Raipur
2. Kumar, Pramila (2003): Chhattisgarh Ek Bhugolik Addhyayan. Madhya Pradesh Hindi Granth Akadmi, Bhopal
3. Nagesh Jitendra and at all (2014): Chhattisgarh Sandarbh 2014 Jansannipark Vibhag, C.G. Govt., Raipur
4. Tiwari, Vijay Kumar (): Geography of Chhattisgarh, Himalya Publishing House, Pvt. Ltd
5. Tripathi, Kaushlendra and Pursottam Chandrakar (2001): Geography of Chhattisgarh, Shardaprakashan, Aazad Nagar, Bilaspur.
6. Verma, L.N. (2017): Geography of Chhattisgarh, Madhya Pradesh Hindi Granth Akadmi, Bhopal

Dr. Sushmita Jaiswal
29/06/2021

Dr. A.K. Mishra
29.6.21

Dr. A.K. Mishra
29.6.21

Dr. A.K. Mishra
29.6.21

Dr. A.K. Mishra
29.6.21

Syllabus & Teaching Plan 2021-22

B.A./B.Sc Part III

Dr. AK MISHRA

PAPER - III

PRACTICAL GEOGRAPHY Dr. P. Vishwakarma

Max. Marks: 50

T.P.

SECTION A

MAP READINGS AND INTERPRETATION

(M.M. 20)

Unit I Graphical Representation: Band graph, Climograph, Square root, Cube-root.

OCT.

Unit II Topographical Sheets: Classification and numbering system (National and International), Interpretation of Topographical Sheets with respect to cultural and physical features

Nov.

Unit III Satellite Imageries: Describing the Marginal Information, Image interpretation Visual Methods Landuse Landcover Mapping Use and Application of GPS

Dec.

SECTION B

SURVEYING AND FIELD REPORT

(M.M. 20)

Unit IV Surveying: Plane Table Survey, Basic Principles of plane table surveying, Plane table survey including intersection and resection.

Jan

Unit V Field work and field report: physical, social and economic survey of a micro-region.

Afmsk

PRACTICAL RECORD AND VIVA VOCE

(M.M.10)

D

Books Recommended:

- 1 Archer, F.E. and Dalton, T.H. (1968) *Field Work in Geography*. William Clowes and Sons Ltd. London and Beccles
- 2 Bolton, T. and Newbury, P.A. (1968) *Geography through Fieldwork*. Blandford Press, London
- 3 Campell, J.B. (2003) *Introduction to Remote Sensing* 4 edition Taylor and Francis, London.
- 4 Chaunial, D.D. (2004) *Remote Sensing and Geographical Information System (in Hindi)*. Sharda Pustak Bhawan, Allahabad
- 5 Cracknell, A. and Ladson, H. (1990) *Remote Sensing Year Book* Taylor and Francis, London
- 6 Curran, P.J. (1985) *Principles of Remote Sensing* Longman, London.
- 7 Davis, R.E. and Foote, F.S. (1953) *Surveying*, 4 edition, McGraw Hill Publication, New York
- 8
- 9 Deekshatulu, B.L. and Rajan, Y.S. (ed) (1984): *Remote Sensing*. Indian Academy of Science, Bangalore
- 10 Floyd, F. and Sabins, Jr. (1986). *Remote Sensing: Principles and Interpretation*. W.H. Freeman, New York
- 11 Gautam, N.C. and Raghavswamy, V. (2004) *Land Use Land Cover and Management Practices in India*. B.S. Publication, Hyderabad

29/06/2021
Dr. Sakshina Mishra

29/6/21

Dr. Jai Singh Sankar