

कार्य वृत्त :-दिनांक 03/03/2023 को पूर्वान्ह 12:00 बजे केन्द्रीय अध्ययन मंडल, भूगोल की बैठक भूगोल अध्ययनशाला, पं. रविशंकर शुक्ल वि.वि., रायपुर में आयोजित हुई जिसमें निम्नानुसार अनुशंसा की गई :-

कार्य सूची - 1 के संदर्भ में सदस्यों द्वारा बी.ए./बी. एस. सी - प्रथम, द्वितीय एवं तृतीय वर्ष, 2023-24 के पाठ्यक्रम के विषय में चर्चा की गई तथा बी.ए./बी. एस. सी. - प्रथम, द्वितीय एवं तृतीय वर्ष, 2022-23 के पाठ्यक्रम में संशोधन कर निम्नलिखित संशोधित पाठ्यक्रम अनुशंसित किया गया -

Brief Summary

3 Year Integrated UG Courses (B.A./B. Sc.) in Geography

B.A. /B.Sc. Part I

The B.A. /B.Sc. Part-I Examination in Geography will be 150 marks. There will be two theory papers and one Practical each of 50 marks as follows:

Paper - I	Physical Geography
Paper - II	Human Geography
Paper - III	Practical Geography

B.A. /B.Sc. Part-II

The B.A./B.Sc. Part-II Examination in Geography will be 150 marks. There will be two theory papers and one Practical each of 50 marks as follows:

Paper-I	Economic and Resources Geography
Paper-II	Regional Geography of India
Paper-III	Practical Geography

B.A. /B.Sc. Part III

The B.A. /B.Sc. Part III Examination in Geography will be 150 marks. There will be two theory papers and one Practical each of 50 marks as follows

Paper - I	Remote Sensing and GIS
Paper - II	Geography of Chhattisgarh
Paper - III	Practical Geography

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Program: B.A./B.Sc.	Class: I Year.	Session : 2023-24
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Paper I: Physical Geography (UGeo-0101)

Course Learning Outcome (CLO)	<p>After the completion of course, the students will have ability to:</p> <ol style="list-style-type: none"> 1. Understand the internal structure of the earth, rocks that compose it and forces within the earth that act to deform it. 2. Analyze how the natural and anthropogenic operating factors affect the development of land forms. 3. Understand about the denudation processes that unceasingly act at the earth's surface to shape land forms and reduce relief. 4. Assess the role of structure, stage and time in shaping the land forms. 5. Identify the Atmospheric pressure, winds humidity, concept of precipitation, its types and understand the Air Masses and Fronts and the Weather Forecasting. 6. Identify the relief of the ocean bottom, temperature, salinity of ocean water, tide, currents coral reef and oceanic resources.
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Content of the Course

Unit	Topic
1.	Origin of the Earth, Geological Time Scale, Earth's Interior, Continental Drift Theory (Wegner), Plate Tectonics, Isostasy.
2.	Earth movements: Earthquakes and Volcanoes, Rocks, Weathering, Erosion and Normal cycle of erosion, Evolution of landscapes: Fluvial, Aeolian (Arid and Semi Arid), Glacial, Karst.
3.	Elements of Weather and Climate, Composition and Structure of the Atmosphere. World patterns of Atmospheric Temperature, Pressure, and Winds.
4.	Atmospheric Humidity and Disturbances, Climatic Classification of Koppen, Geographical account of world climate patterns: Equatorial, Monsoon, Desert and Tundra.
5.	Bottom relief of Ocean, Distribution of Temperature and Salinity of Oceans and Seas, Currents and Tides, Ocean Deposition. Law of the Sea.

Learning Resources: Text Books, Reference Books, Other Resources

Suggested Readings:

1. Ahnmed, E.: Coastal Geomorphology of India.
2. Chorley, R. J.: Spatial Analysis in Geomorphology, Methuen, London, 1972.
3. Dayal, P. : A Text book of Geomorphology, R.K. Books, New Delhi.
4. Gautam, Alka : Geomorphology, Sharda Pustak Bhawan, Allahabad.
5. Holms, A.: Principles of Physical Geology, Thomas Nelson, London.
6. Jha, V.C. : Geomorphology, Vasundhara Publication, Gorakhpur.
7. Sparks, B.W. Geomorphology, Longman, London, 1960.
8. Sharma, H.S. (cd.): Perspective in Geomorphology, Concept, New Delhi, 1980.
9. Singh, S : Geomorphology, Prayag Publication, Allahabad, 1998.
10. Steers, J.A. : The Unstable Earth Methuen, London.
11. Thornbury, W.I.). Principles of Geomorphology, John Wiloy, New York, 1960.
12. Strahler, A.N.: Physical Geography, Willey, New York.
13. सिंह.एम.बी.(2001) : भौतिक भूगोल, तारा बुक ऐजेन्सी, वारणासी।
14. सिंह, सविन्द्र (2016) : भौतिक भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद।
15. दयाल, परमे वर (2012) : भौतिक भूगोल, पंच गील प्रकाशन, जयपुर।
16. हुसैन, माजिद (2008) : भौतिक भूगोल, रावत पब्लिकेशन, जयपुर।

Suggested equivalent online course: 1. epgp.inflibnet.ac.in 2. virtual lectures available on youtube

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Program: B.A./B.Sc.		Class: I Year.	Session : 2023-24
Paper II: Human Geography (UGeo-0102)			
Course Learning Outcome (CLO)	After the completion of course, the students will have ability to:		
	<ol style="list-style-type: none"> 1. Discuss and describe the major concepts and key principles of Human Geography including place, space, scale and landscape. 2. Appreciate the diversity of the cultural backgrounds and places. 3. Problem solving from a geographic perspective by understanding the role location plays. 		
Content of the Course			
Unit	Topic		
1.	Meaning, Definition, Nature and Scope of Human Geography, Man - environment relationship: Determinism, Possibilism, Determinism, Neo-Determinism and Probabilism; Human Development Index (HDI).		
2.	Human Races: Formation and Evolution, Characteristics, Classification and Distribution. Human adaptation to environment: Eskimos, Bushman, Pigmy and Masai.		
3.	Growth, Density and Distribution of World Population and factors influencing spatial distribution. Over, Under, and Optimum Population; Migration of Population.		
4.	Rural Settlements: Characteristics, Types and Regional Pattern, Rural Houses in India, Urban Settlement- Types and Pattern.		
5.	Environmental Issues: Global Warming, Climate Change, Acid rain, Deforestation, Desertification, Air, Water and Soil Pollution.		
Learning Resources :Text Books, Reference Books, Other Resources			
Suggested Readings:			
<ol style="list-style-type: none"> 1. Chisholm, M. (1985): Human Geography, 2nd edition, Penguin Books, London. 2. De Blij, H.J.(1996): Human Geography: Culture, Society and Space,. 2nd edition. John Wiley and Sons, New York, 3. Fellman, J. D., Arthur, G., Judith, G., Hopkins, J. and Dan, S. (2007): Human Geography: Landscapes of Human Activities. McGraw-Hill, New York. 10th edition. 4. Haggett, P. (2004): Geography: A Modern Synthesis. 8th edition, Harper and Row, New York. 5. Huggett, R. J. (1998): Fundamentals of Biogeography, Routledge, London. 6. Hussain, M. (1994): Human Geography, Rawat Publications, Jaipur. 7. Johnston, R. J., Gregory, D., Pratt, G. and Watts, M. (2009): The Dictionary of Human Geography. 5th edition, Basil Blackwell Publishers, Oxford. 8. Norton, W. (2008): Human Geography, Oxford University Press, New York. 5th ed. 9. Singh, K. N. and Singh, J. (2001): <i>Manav Bhugol</i>. Gyanodaya Prakashan, Gorakhpur. 2nd edition. 10. Singh, L.R. (2005): Fundamentals of Human Geography, Sharda Pustak Bhawan, Allahabad 11. Smith, D. M.(1977): Human Geography- A Welfare Approach, Edward Arnold (Publishers) Ltd., London 			
Suggested equivalent online course:			
<ol style="list-style-type: none"> 1. eggp.inflibnet.ac.in 2. virtual lectures available on YouTube 			



 (Dr. Chakraborty)

Program: B.A./B.Sc.		Class: I Year.	Session : 2023-24
Paper III : Practical Geography (UGeo-0103)			
Course Learning Outcome (CLO)	After the completion of course, the students will have ability to: 1. Develop hands on skills in diagrammatic representation of data. 2. Comprehend thematic mapping techniques, its cartographic representation and interpretation. 3. Take up Cartography as a profession.		
Content of the Course			
Unit	Topic		
Section A: Cartography And Statistical Methods			MM- 25
1.	Basic concept of Latitude and Longitude. Identification of tropic of Cancer, Capricorn and equator on map, name of country and state. Northern hemisphere and southern hemisphere. Practice on world and India map.		
2.	Scale: Statement Scale, Representative Fraction (R.F.), Linear scale – Simple, Diagonal, Comparative, and Time Scales.		
3.	Methods of showing relief; Meaning of contour, basic features of Contours line, Hachures; Representation of different landforms by Contours; Conical hill, Plateau, V and U shape valley, Waterfall.		
4.	Graphs and Diagram: Triangular graph, Bar Diagram (Simple and Composite and multiple), Circle Diagram, Pie Diagram.		
5.	Statistical Technique: Mean Median, Mode		
Section B: Surveying			MM-15
6.	Chain and Tape Survey. Triangulation method, Open Traverse and Closed Traverse		
Section C: Practical Record And Viva Voce			MM-10
Learning Resources: Text Books, Reference Books, Other Resources			
Suggested Readings:			
1. Davis, R.E. and Foote, F.S. (1953): Surveying, 4 th 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. Raisz, E. (1962): General Cartography. John Wiley and Sons, New York. 5 th edition.			
6. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata.			
7. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi,.			
8. Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.			
9. Venkatramaiah, C. (1997): A Text Book of Surveying, Universities Press, Hyderabad.			
10. षर्मा, जे.पी. (2001) : प्रायोगिक भूगोल, रस्तोगी पब्लिकेशन, मेटूर			
11. मिश्रा, आर.एन.एवं पी.के.षर्मा (2019) : प्रायोगिक भूगोल, रावत पब्लिकेशन, जयपुर			
12. तिवारी, आर.सी.एवं सुधाकर त्रिपाठी (2009) : अभिनव प्रायोगात्मक भूगोल, प्रयाग पुस्तक भवन			
13. मॉक हाऊस तथा विल्किन्सन (अनुवाद प्रो. प्रेमचन्द्र अग्रवाल) : मानचित्र तथा आरेख, मध्यप्रदेश हिंदी इलाहबाद ग्रंथ अकादमी भोपाल			
Suggested equivalent online course:			
1. epp.inflibnet.ac.in 2. virtual lectures available on you tube			

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(Dr. Sheela Shinde)

Program: B.A./B.Sc.		Class: II Year.	Session : 2023-24
Paper I :Economic And Resources Geography (UGeo-0201)			
Content of the Course			
Course Learning Outcome (CLO)	After the completion of course, the students will have ability to: <ol style="list-style-type: none"> 1. Understand about the Nature and Scope of Economic Geography. 2. Understand the concept and classification of resource as well as major mineral resources. 3. Identify the major crops and their production and distribution. 4. Understand the fundamental theories in economic geography. 5. Understand the types, characteristics different modes of transportation at national and international level. 6. Understand various international block and role of international trade in economic development. 7. Understand the conservation and management of resources as well as sustainable development. 		
Content of the Course			
Unit	Topic		
1.	Meaning, scope and concept of economic geography; Resource: Meaning and classification		
2.	Mineral resources: iron ore and bauxite, Power resources: coal, petroleum and hydro electricity; Resource conservation. Principal Crops: Wheat, Rice, Sugarcane, Tea, Coffee, Cotton.		
3.	Agricultural regions of the world (D. Whittlesey); Theory of agricultural location (Von Thunen); Theory of industrial location (Weber).		
4.	International trade: patterns and trends; Major trade blocks: SAARC, BRICKS, OPEC, LAFTA, EEC, ASEAN; Effect of globalization on developing countries		
5.	Meaning, scope and concept of economic geography; Resource: Meaning and classification		
Learning Resources: Text Books, Reference Books, Other Resources			
Suggested readings			
<ol style="list-style-type: none"> 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): <i>Aarthik Bhugol Ke Mool Tattava</i>, 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 Hudson, R. (2005): Economic Geographies: Circuits, Flows and Spaces. Sage Publications,			
Suggested equivalent online course: 1. epgp.inflibnet.ac.in 2. virtual lectures available on YouTube			

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Handwritten signature (Dr. Sheela Shinde)

Program: B.A./B.Sc.		Class: II Year.	Session : 2023-24
Paper II : Regional Geography of India (UGeo-0202)			
Course Learning Outcome (CLO)	After the completion of course, the students will have ability to: <ol style="list-style-type: none"> 1. Understand the about the physiographic division of India and Drainage system of India. 2. Understand the seasonal variation of climate and monsoon of India. 3. Understand the various biotic, conventional and non conventional resources and their distribution in India. 4. Understand the growth, density and distribution of Indian population. 5. Identify the major crops, production and distribution, agriculture region of India 6. Understand the impact of green revolution on Indian agriculture. 7. Understand the industrial production and development in India. 		
Content of the Course			
Unit	Topic		
1.	Physical Features: Structure, Relief, Drainage, Climate and Monsoon.		
2.	Natural Resources: Soils - types, their distribution and characteristics. Water Resources (major irrigation and hydro- power projects); Forests: types and distribution.		
3.	Mineral and Power resources: Iron-ore, Bauxite, Coal, Petroleum and Natural gas, Atomic energy and Non conventional sources of energy.		
4.	Cultural Features: Population - Growth, Density and Distribution. Agriculture - Major Cereals: Paddy, Wheat. Major Cash crops: Tea, Coffee, Sugarcane. Impact of Green Revolution, Agro-climatic region.		
5.	Industries Localization, Development & Production - Iron and steel, Cotton Textile, Cement, Sugar. Transport, Industrial Region.		
Learning Resources: Text Books, Reference Books, Other Resources			
Books Recommended:			
<ol style="list-style-type: none"> 1. Chauhan, P.R. and Prasad, M. (2003): <i>Bharat Ka Vrihad Bhugol</i>, Vasundhara Prakashan, Gorakhpur. 2. Farmer, B.H. (1983): <i>An Introduction to South Asia</i>. Methuen, London 3. Gautam, A. (2006): <i>Advanced Geography of India</i>, Sharda Pustak Bhawan, Allahabad 4. Johnson, B.L.C. (1963): <i>Development in South Asia</i>. Penguin Books, Harmondsworth 5. Krishnan, M.S. (1982): <i>Geology of India and Burma</i>, CAS Publishers and Distributors, Delhi. 6. Khullar, D.R. (2007): <i>India: A Comprehensive Geography</i>, Kalyani Publishers, New Delhi 7. Nag, P. and Gupta, S. S. (1992): <i>Geography of India</i>, Concept Publishing Company, New Delhi. 8. Rao, B.P. (2007): <i>Bharat kee Bhaugolik Sameeksha</i>, Vasundhara Prakashan, Gorakhpur. 9. Singh , J. (2003): <i>India: A Comprehensive Systematic Geography</i>. Gyanodaya Prakashan, Gorakhpur 10. Singh, J. (2001): <i>Bharat: Bhougolik Aadhar Avam Ayam</i>, Gyanodaya Prakashan, Gorakhpur. 11. Singh, R.L. (ed.) (1971): <i>India: A Regional Geography</i>. National Geographical Society of India, Varanasi. 12. Spate, O.H. K., Learmonth A. T. A. and Farmer, B. H. (1996): <i>India, Pakistan and Sri Lanka</i>. Methuen, London, 7th edition. 13. Sukhwai, B.L. (1987): <i>India: Economic Resource Base and Contemporary Political Patterns</i>. Sterling Publication, New Delhi 14. Tiwari, R.C. (2007): <i>Geography of India</i>, Prayag Pustak Bhawan, Allahabad. 			
Suggested equivalent online course: 1. epgp.inflibnet.ac.in			
2. virtual lectures available on YouTube			

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Program: B.A./B.Sc.		Class: II Year.	Session : 2023-24
Paper-III Practical Geography (UGeo-0203)			
Course Learning Outcome (CLO)	After the completion of course, the students will have ability to: 1. Understand the map design and map layout through various Cartographic symbols and techniques. 2. Understand the Meaning, concept, classification and importance of map projections. 3. To get a knowledge of Weather Maps and the use of Meteorological instrument. 4. To get knowledge about Prismatic Compass Survey and Whole Circle Bearing and Reduced Bearing. 5. Students are understood about how to represent of geographical data with different types of cartographic technique and Statistical Methods through practical workbook.		
Content of the Course			
Unit	Topic		
Section A: Map Interpretation, Projections And Statistical Methods			MM- 25
1.	Principle of map design, elements of maps layout, Types of cartographic symbol: point, line, area and their application. Maps: definition and their application- Dot Map, Sphere map, Choropleth Map, chorochromatic and Isopleth Map.		
2.	Map Projections: Meaning, Definition, classification and importance; Cylindrical: Equidistance, Equal area and Mercator projection.		
3.	Conical: One standard and two standard parallel, Polar Zenithal: Orthographic, Stereographic, Gnomonic Projection.		
4.	Statistical Methods: Quartile: Mean Deviation, Standard Deviation and Quartile, Deviation; Relative Variability and Co-efficient of Variation.		
Section B: Surveying			MM- 15
5.	Surveying: Prismatic Compass Survey, Whole Circle Bearing and Reduced Bearing, correction of bearing. Open traverse and close traverse.		
Section C Practical Record And Viva Voce			M.M- 10
Learning Resources: Text Books, Reference Books, Other Resources			
Suggested Readings:			
<ol style="list-style-type: none"> 1. Davis, R.E. and Foote, F.S. (1953): Surveying, 4th edition, McGraw Hill Publication, New York 2. Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London 3. Natrajan, V. (1976): Advanced Surveying, B.I. Publications., Mumbai 4. Raisz, E. (1962): General Cartography. John Wiley and Sons, New York. 5th edition. 5. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata. 6. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad. 7. Venkatramiah, C. (1997): A Text Book of Surveying, Universities Press, Hyderabad. 8. शर्मा, जे.पी. (2001) : प्रायोगिक भूगोल, रस्तोगी पब्लिकेशन, मेदूर 9. मिश्रा, आर.एन.एवं पी.के.शर्मा (2019) : प्रायोगिक भूगोल, रावत पब्लिकेशन, जयपुर 10. तिवारी, आर.सी.एवं सुधाकर त्रिपाठी (2009) : अभिनव प्रायोगात्मक भूगोल, प्रयाग पुस्तक भवन 11. मॉक हाऊस तथा विल्किन्सन (अनुवाद प्रो. प्रेमचन्द्र अग्रवाल) : मानचित्र तथा आरेख, मध्यप्रदेश हिंदी इलाहाबाद ग्रंथ अकादमी भोपाल 			
Suggested equivalent online course: 1. epgp.inflibnet.ac.in 2. virtual lectures available on you tube			

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(Dr. Sheela Sharma)

Program: B.A./B.Sc.		Class: III Year.	Session : 2023-24
Paper I: Remote Sensing And GIS (UGeo-0301)			
Course Learning Outcome (CLO)	After the completion of course, the students will have ability to: <ol style="list-style-type: none"> 1. Understand and get the knowledge about fundamental concept of Remote sensing. 2. To understand the types of remote sensing, and types of platforms in remote sensing. 3. To get a knowledge about satellite sensor and types of sensors, and their functions and Characteristics. 4. Understand the data product, types of data product and its applications and uses in remote Sensing. 		
Content of the Course			
Unit	Topic		
1.	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		
2.	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.		
3.	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.		
4.	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, Topographical sheets, Surveying, Aerial photographs, Satellite data and images, Data types-Spatial and Non spatial.		
5.	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.		
Learning Resources: Text Books, Reference Books, Other Resources			
Suggested Readings:			
<ol style="list-style-type: none"> 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.J. (1985): Principles of Remote Sensing, Longman, London 4. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. 4th edition. John Wiley and Sons, New York 5. Nag Prithvish and Kudrat M. (1998): Digital Remote Sensing, Concept Publishing Company, New Delhi 6. Star J, and J. Estes, (1994), Geographic Information Systems: An Introduction, Prentice Hall, New Jersey. 7. Williams J. (1995): Geographic information from space, John Wiley and Sons, England, 8. चौनियाल, देवी दत्त (2004), सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली, शारदा पुस्तक भवन, इलाहाबाद-2 9. खत्री, हरीष कुमार (2019) : सुदूर संवेदन तकनीक, कैलाष पुस्तकसदन भोपाल, मध्यप्रदेश 			
Suggested equivalent online course: 1. epgp.inflibnet.ac.in 2. virtual lectures available on you tube			

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Program: B.A./B.Sc		Class: III Year.	Session : 2023-24
Paper II: Geography of Chhattisgarh (UGeo-0302)			
Course Learning Outcome (CLO)	After the completion of course, the students will have ability i. Understand the about the physiographic division of Chhattisgarh State. ii. Understand the India Drainage system of Chhattisgarh Rivers. iii. Understand the climatic variation in Chhattisgarh State. iv. Examine and understand the types of vegetation of Chhattisgarh. v. Understand the variation in industrial development in Chhattisgarh State. vi. Examine and understand the developed and underdeveloped States in Chhattisgarh.		
Content of the Course (Credit- 6)			
Unit	Topic		
1.	Physical Features : Geological Structure, Relief and Physiographic Regions, Drainage system, Climate		
2.	Natural Resources: Soils – Types, characteristics and their Distribution. Water Resources (Major Irrigation and Hydel Power Projects), Forests-types, Distribution, and Conservation of Forest. Mineral Resources: Iron-ore, Coal, Lime stone, Bauxite, Tin.		
3.	Agriculture and Populations – Agriculture: Cereals, Pulses and Millets. Population: Growth, Distribution, and Density; Tribal Populations; and Urban and Rural Population.		
4.	Industries - Iron and Steel, Cement, Sugar, Aluminum; Industrial Regions of Chhattisgarh		
5.	Trade and Transport, Tourism, Socio-Economic Development of Chhattisgarh.		
Learning Resources: Text Books, Reference Books, Other Resources			
Suggested Readings:			
1. Jha, Vibhash Kumar and Saumya Naiyyar (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 Jansanmpark Vibhag, C.G. Govt., Raipur 4. Tiwari, Vijay Kumar (2004): 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.			
Suggested equivalent online course: 1. eggp.inflibnet.ac.in			
2. virtual lectures available on YouTube			

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Dr. Sheela Shinde

Program: B.A./B.Sc		Class: III Year.	Session : 2023-24
Paper II: Geography of Chhattisgarh (UGeo-0303)			
Course Learning Outcome (CLO)	After the completion of course, the students will have ability i. Understand the about the physiographic division of Chhattisgarh State. ii. Understand the India Drainage system of Chhattisgarh Rivers. iii. Understand the climatic variation in Chhattisgarh State. iv. Examine and understand the types of vegetation of Chhattisgarh. v. Understand the variation in industrial development in Chhattisgarh State. vi. Examine and understand the developed and underdeveloped States in Chhattisgarh.		
Content of the Course			
Unit	Topic		
Section A: Map Readings And Interpretation			MM-20
1.	Graphical Representation: Band graph		
2.	Topographical Sheets: Classification and numbering system (National and International)		
3.	Satellite Imageries: Describing the Marginal Information		
Section B: Surveying And Field Report			MM-20
4.	Surveying: Plane Table Survey, Basic Principles of plane table surveying, Plane table survey including intersection and resection.		
5.	Field work and field report: physical, social and economic survey of a micro - region.		
Section C: Practical Record And Viva Voce			MM-10
Learning Resources: Text Books, Reference Books, Other Resources			
Suggested Readings:			
<ol style="list-style-type: none"> 1. Archer, J.E. and Dalton, T.H. (1968): <i>Field Work in Geography</i>. William Clowes and Sons Ltd. London and Beccles. 2. Bolton, T. and Newbury, P.A. (1968): <i>Geography through Fieldwork</i>. Blandford Press, London. 3. Monkhouse, F. J. (1985): <i>Maps and Diagrams</i>. Methuen, London. 4. Nag, P. (ed.) (1992): <i>Thematic Cartography and Remote Sensing</i>. Concept Publishing Company, New Delhi. 5. Natrajan, V. (1976): <i>Advanced Surveying</i>, B.I. Publications., Mumbai. 6. Raisz, E. (1962): <i>Principles of Cartography</i>, McGraw Hill, New York. 7. Robinson, A. H., Sale. R. D., Morrison, J. L. and Muehrcke, P. C. (1984): <i>Elements of Cartography</i>. 5th edition, John Wiley and Sons, Inc. New York. 8. Sarkar, A. K. (1997): <i>Practical Geography: A Systematic Approach</i>. Orient Longman, Kolkata 9. Sharma, J. P. (2001): <i>Prayogik Bhugol.</i>, Rastogi Publication, Meerut 3rd. edition. 10. Singh, R.L. and Singh Rana P.B. (1993): <i>Elements of Practical Geography</i>. (Hindi and English editions). Kalyani Publishers, New Delhi. 11. Stoddard, Robert H. (1982): <i>Field Techniques and Research Methods in Geography</i>. Kendall/Hunt Pub. Dubuque IO. 			
Suggested equivalent online course: 1. epgp.inflibnet.ac.in 2. virtual lectures available on YouTube			

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Dr. Sheela Shinde)