

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM & MARKING SCHEME

B.A./B.Sc. PART – II, III GEOGRAPHY

SESSION : 2022-23



ESTD: 1958

GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG, 491001 (C.G.)

(Former Name – Govt. Arts & Science College, Durg)

NAAC Accredited Grade A⁺, College with CPE - Phase III (UGC), STAR COLLEGE (DBT)

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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

Dept. of Geography

Session – 2022-23

Approved syllabus for B.A by the members of Board of Studies for the session 2022-23

The syllabus with the paper combinations is as under

B.A II / B.Sc. II:

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

B.A III / B.Sc.III :

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

The syllabus for B.A is hereby approved for the session 2022-23

Name and Signatures

	Departmental members
Chairperson /H.O.D..... <i>Bm 25.7.22</i>	1. <i>JUL</i>
Subject Expert <i>Aurel 25/7/22</i>	2. <i>QAN</i>
Subject Expert..... <i>FLROR 25/7/22</i>	3.
Subject Expert <i>T.L.VEDHIA 25.7.2022</i> <i>25/7/22</i>	4. <i>[Signature]</i>

In case any change or modification is prescribed by central Board of studies or Higher Education Dept., Govt. of Chhattisgarh with respect to content or distribution of marks for Undergraduates Syllabii, it will be implemented accordingly.

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

Dept. of Geography

Session – 2022-23

Syllabus and Marking Scheme for B.AII /B.Sc II

Paper no.	Title of the paper	Marks Allotted in Theory	
		Max	Min
I	Economic and Resources Geography	50	17
II	Regional Geography of India	50	17
III	Practical Geography	50	17
	Total	150	

02 Theory Papers - 100

01 Practical - 50

Total Marks - 150

The syllabus for B.A/ B.Sc. II is hereby approved for the session 2022-23

Name and Signatures

	Departmental members
Chairperson /H.O.D..... <i>Am 25.7.22</i>	1. <i>J</i>
Subject Expert <i>[Signature]</i>	2. <i>[Signature]</i>
Subject Expert..... <i>[Signature]</i>	3. <i>[Signature]</i>
Subject Expert <i>[Signature]</i>	4. <i>[Signature]</i>

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PAPER - I
ECONOMIC AND RESOURCES GEOGRAPHY

Max. Marks: 50

(Paper Code-0187)

- Unit I** Meaning, scope and approaches to economic geography; Main concepts of economic geography; Resource: concept and classification; Natural resources: soil, forest and water.
- Unit II** Mineral resources: iron ore and bauxite; Power resources: coal, petroleum and hydro electricity; Resource conservation; Principal crops: wheat, rice, sugarcane and tea
- 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.
- 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.
- Unit V** Conservation of resources; evolution of the concept, principles, philosophy, and approach to conservation, resources conservation and practices. Policy making and sustainable development.

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, Wareing, J. (2000): *Economic and Social Geography Made Simple*, Rupa and Company, New Delhi.

PAPER - II

GEOGRAPHY OF INDIA

Max. Marks: 50

(Paper Code-0188)

- Unit I** Physical Features: Structure, Relief, Climate, Physiographic Regions, Drainage, Climate-origin and mechanism of monsoon, and regional and Seasonal variation.
- 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.
- Unit III** Cultural Features : Population - Growth, Density and Distribution. Agriculture - Major crops, impact of Green Revolution and Agricultural regions.
- Unit IV** Industries Localization, Development & Production - Iron and steel, Cotton Textile, Cement, Sugar, Transport, Foreign Trade. Industrial Region.
- Unit V** Detailed Study of the following regions of India : Kashmir Valley, North- East Region, Chhota Nagpur Plateau, Thar Desert, Islands of India.

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: Bhougolik 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.

B.A. /B.Sc. Part II

PAPER - III
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.

SECTION B
SURVEYING

Unit V Surveying: Whole Circle Bearing and Reduced Bearing, Methods of Prismatic Compass Survey. (M.M. 15)

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.

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

Dept. of Geography

Session – 2022-23

Syllabus and Marking Scheme for B.A III /B.Sc III

Paper no.	Title of the paper	Marks Allotted in Theory	
		Max	Min
I	Remote Sensing and GIS	50	17
II	Geography of Chhattisgarh	50	17
III	Practical Geography	50	17
	Total	150	

02 Theory Papers - 100

01 Practical - 50

Total Marks - 150

The syllabus for B.AIII / B.Sc. III is hereby approved for the session 2022-23

Name and Signatures

Departmental members	
Chairperson /H.O.D.....	1.
Subject Expert	2.
Subject Expert.....	3.
Subject Expert	4.

B.A- III

PAPER –I

REMOTE SENSING AND GIS

Max. Marks : 50

- Unit I Basics of Remote Sensing : definition , history, and Scope; Electro-Magnetic Radiation : Characteristics, Spectral region, and Band; Interaction with earth surface features and atmosphere ; Spectral Signature.
- Unit II Types of Remote Sensing ; Air Borne and Space borne ; Aerial photo Types and Characteristics ; Remote Sensing satellites : Platforms and Sensors : active and passive, sensor characteristics ; spatial resolution, Radiometric resolution, temporal resolution ,Product.
- 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 Organization and data products.
- 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.
- 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.

Boods Recommended :

1. Bhatia, B (2010) : Remote Sensing and GIS, Oxford University Press, New Delhi.
2. Curran, P.J. (1995) : Principles of Remote Sensing. Longman, London.
3. Lo Albert, and C.P. ,and Young, K.W (2003) Concepts and Techniques Of Geographical Information Systems, Prentice Hall of India Pvt. Ltd, New Delhi.
4. Nag Prithvish and Kudrat M. (1998) Digital Remote Sensing, Concept Publishihg Company, New Delhi.
5. चौनियाल , देवी दत्त :(2009) सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली, भारदा पुस्तक भवन ठलाहाबाद (उ.प्र.)
- 6 . नाग , पृथ्वी एवं अन्य (2016) भौगोलिक सूचना विज्ञान, भारती प्रका ान वाराणसी.

B.A –III

PAPER –II

GEOGRAPHY OF CHHATTISGARH

Max. Marks : 50

- Unit I Physical Features : Geological Structure, Relief and Physiographic Regions, Drainage , Climate.
- 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.
- Unit III Agriculture and Population _ Agriculture : Cereals, Pulses and other Crops. Population : Growth, Distribution, and Density; Tribal Population; And Urban and Rural Population.
- Unit IV Industries _ Iron and Steel, Cement, Sugar, Industrial Region of Chhattigarh.
- Unit V Trade and Transport, Tourism, Socio-Economic Development of Chhattisgarh .

Books Recommended :

1. Kumar, Pramila 2003) : Chhattisgarh Ek Bhugolik Addhyayan, Madhy Pradesh Hindi Granth Akadmi , Bhopal
2. Tiwari, Vijay Kumar () Geography of Chhattisgarh, Himalya Publishig House , Pvt. Ltd.
3. Verma, L.N. 2017) Geography of Chhattisgarh, Madhya Pradesh Hindi Granth Akadmi, Bhopal .

B.A. III
PAPER - III
PRACTICAL GEOGRAPHY

Max . Marks : 50

SECTION – A

MAP READINGS AND INTERPRETATION (M.M. 20)

- Unit I Graphical Representation : Band graph, Climograph, Square Root, Cube root.
- Unit II Topographical Sheets : Classification and numbering system (National and International), Interpretation of Topographical Sheet with respect to cultural and physical features.
- Unit III Satelite Imageries : Describing the Marginal Information, Image Interpretation: Visual Methods – Land use / Land Cover Mapping. Use and application of GIS

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

PRACTICAL RECORD AND VIVA VOCE (M.M. 10)

Books Recommended :

1. Chaunial , D.D.(2004) Remote Sensing and Geographical Information System (in Hindi)
2. Kanetker. T.P. and Kulkarni , S.V. (1967) : Surveying and Levelling. Vol. I and II V.G. Prakashan Poona.
3. Monkhouse, F.J. (1985) Maps and Diagrams , Methuen , London.
4. Rize ,E, (1962) Principle of Cartography, Mc Graw Hill , New York.
5. Sharma , J.P.(2001) Prayogik Bhugol, Rastogi Publication, Meerut 3rd Edition.
6. Singh , R.L. and Singh Rana P.B. (1993) Elements of Practical Geography (Hindi and English editions) Kalyani Publishers, New Delhi.

Examination Cell

Question Paper Format and Distribution of Marks for Under Graduate Examination

1. The question paper for UG Classes is to be divided into three Sections - A, B & C.
2. Section A shall contain very short answer type questions (answer in one or two sentences) or objective type questions. (No Multiple choice questions. No 'fill in the blank' type Questions)
3. Section B shall contain short answer type questions with the limit of 150 words.
4. Section C shall contain long answer/descriptive type questions. The students are required to answer precisely and the answer should not exceed the limit of 350 words.
5. The scheme of marks should be as follows :

Question Type	MM 33 (Marks x No. of Questions)	MM 34 (Marks x No. of Questions)	MM 50 (Marks x No. of Questions)	MM 75 (Marks x No. of Questions)
A (Very short Answer)	8x1 = 08	1x9 = 09	1x10 = 10	1x10 = 10
B (Short Answer)	2x5 = 10	2x5 = 10	3x5 = 15	5x5 = 25
C (Long Answer)	3x5 = 15	3x5 = 15	5x5 = 25	8x5 = 40

6. The half yearly internal examinations will be held. 10% out of marks obtained by the students in each paper in internal examinations will be added to 90% of marks obtained in each paper of annual examination.

स्नातक कक्षाओं के लिए प्रश्न पत्र का प्रारूप तथा अंक विभाजन

1. स्नातक कक्षाओं के लिए प्रत्येक प्रश्न पत्र तीन खण्डों अ, ब, स में विभाजित होगा।
2. खण्ड अ में अतिलघूत्तरी प्रश्न (एक या दो वाक्यों में उत्तर) या वस्तुनिष्ठ प्रश्न होंगे। (बहुविकल्पीय प्रश्न नहीं होंगे। 'रिक्त स्थानों की पूर्ति करें' जैसे प्रश्न भी नहीं होंगे।)
3. खण्ड ब में लघूत्तरी प्रश्न होंगे जिनका उत्तर 150 शब्दों में देना होगा।
4. खण्ड स में दीर्घ उत्तरी/निबंधात्मक प्रश्न होंगे। विद्यार्थियों को अधिकतम 350 शब्दों में सटीक उत्तर लिखना होगा।
5. प्रश्नपत्र का प्रारूप एवं अंक विभाजन निम्नानुसार होगा :

प्रश्न का प्रकार	पूर्णांक 33 (अंक x प्रश्नों की संख्या)	पूर्णांक 34 (अंक x प्रश्नों की संख्या)	पूर्णांक 50 (अंक x प्रश्नों की संख्या)	पूर्णांक 75 (अंक x प्रश्नों की संख्या)
अतिलघूत्तरी प्रश्न	8x1 = 08	1x9 = 09	1x10 = 10	1x10 = 10
लघूत्तरी प्रश्न	2x5 = 10	2x5 = 10	3x5 = 15	5x5 = 25
दीर्घ उत्तरी प्रश्न	3x5 = 15	3x5 = 15	5x5 = 25	8x5 = 40

6. अर्द्धवार्षिक आंतरिक मूल्यांकन परीक्षा आयोजित होगी। इस परीक्षा में प्रत्येक प्रश्नपत्र के प्राप्तांक का 10% वार्षिक परीक्षा के प्रत्येक प्रश्नपत्र में प्राप्त अंको के 90% के साथ जोड़ा जाएगा।



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