

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM & MARKING SCHEME

B.A./B.Sc. PART – ~~II~~, III GEOGRAPHY

SESSION : 2022-23

2023-24



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 - 24

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.A.III / B.Sc. III is hereby approved for the session 2022-23 - 24

Name and Signatures

Departmental members	
Chairperson /H.O.D..... Bm 25.7.22	1. JL
Subject Expert Kusum	2. A.M.
Subject Expert..... Rajendra 25.7.22	3. K.S.
Subject Expert	4. P.

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 उलाहाबाद (उ.प्र.)
- 6 . नाग , पृथ्वी एवं अन्य (2016) भौगोलिक सूचना विज्ञान, भारती प्रकाशन 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 करो' 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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