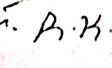
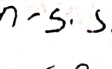
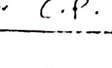
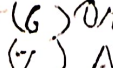
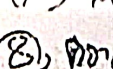
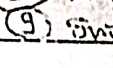
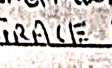
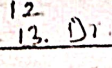
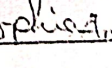
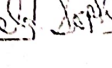


FOUR YEAR UNDERGRADUATE PROGRAM (2024 - 28)
DEPARTMENT OF GEOGRAPHY
COURSE CURRICULUM

PART-A: Introduction			
Program: Bachelor in Arts (Certificate / Diploma / Degree / Honors)		Semester - I	Session: 2024-2025
1	Course Code	GOSC - 01 T	
2	Course Title	Fundamental of Physical Geography	
3	Course Type	DSC	
4	Pre-requisite (if, any)	As per the program	
5	Course Learning Outcomes(CLO)	At the end of this course , the students will be able to : 1- Understand the functioning of Earth systems and analyze geo morphological, climatic and oceanic factors. 2- Understand the Physical aspect of Geographical concepts which are relevant in day to day life 3- To record the temperature, pressure, humidity, rainfall and other climatic conditions and evaluate the local climate 4- Understand the Oceanic Features and Conditions.	
6	Credit Value	3 Credits	Credit = 15 Hours -learning & Observation
7	Total Marks	Max. Marks: 100	Min Passing Marks:40

PART -B: Content of the Course		
Total No. of Teaching-learning Periods(01 Hr. per period) - 45 Periods (45 Hours)		
Unit	Topics (Course contents)	No. of Period
I	Fundamental of Physical Geography- Definition and Scope of Physical Geography, Origin of the Earth- Nebular Theory, Hoyle and Littleton Theory. Interior of the earth:- Composition and Structure. Folds and Faults- Origin and Classification.	12
II	Rocks: - Origin, Classification and Characteristics. Weathering- Meaning, Types. Agents of Erosion- Winds , River and their resultant topographical features	10
III	Atmosphere- Elements of Weather and Climate, Composition of the Atmosphere, Atmospheric Temperature, Pressure Belt, winds, Tropical Cyclone and Origin and mechanism of Monsoon.	12
IV	Hydrosphere- Relief of the Ocean Basins-Tetrahedral theory. Hydrological Cycle, Ocean Salinity, Ocean Temperature-vertical and horizontal Distribution , Ocean Currents (Pacific and Indian)	11
Keywords	Topographical Features, Erosion, Tetrahedral, Faults.	

Signature of Convener, Members of CBoS :

1.  Dr. D. D. Kishor
 2.  Dr. A. K. Thakur
 3.  M. S. Sahu
 4.  C. P. Sahu
 5.  Dr. D. D. Kishor
 6.  Dr. (M.) J. P. Kishor
 7.  A. Beck
 8.  Dr. Seema Mishra
 9.  Dr. Grace Kaur
 10.  Dr. Sophia
 11.  Dr. Sophia
 12.  Dr. Sophia
 13.  Dr. Sophia

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

- 1- A.H. Strahler, Arthur Strahler, *Introducing Physical Geography*, John Wiley & Sons, New York, 2005
- 2- Strahler, A.H. and Strahler, A.H., *Modern Physical Geography*, John Wiley & Sons, 1992
- 3- Thornbury, W.D., *Principles of Geomorphology*, Wiley Eastern, 1969
- 4- Critchfield, H., *General Climatology*, Prentice-Hall, New York, 1975.
- 5- Savindra Singh- *Physical Geography* (Hindi and English Both) Prawalika Publication Prayagraj
- 6- Lal D.S. – *Physical Geography*, (Hindi) Sharda Pustak Bhavan, Prayagraj, 2012
- 7- Lal D.S.-*Climatology & Oceanography* (Hindi and English Both) Sharda Pustak Bhavan Prayagraj
- 8- Mazid Husain- *Bhautik Bhoogol*, Rawat Publication, Jaipur, 2019
- 9- Alka Gautam- *Bhautik Bhoogol*, Rastogi Publication, Meerut, 2012

Reference Books:

- 1- Holmes, A. *Principle of Physical Geology*, Nelson 1966
- 2- Monkhouse, F.J., *Principles of Physical Geography*, London Press, 1962
- 3- Dayal, P., *Geomorphology*, Rajesh Publication New Delhi 6th Edition-2017

Online Resources– (e-Resources / e-books and e-learning portals)

- The Dictionary of Physical Geography by David S.G. Thomas ISBN: 9781118782316 Publication Date: 2016
<http://www.physicalgeography.net/fundamentals/1b.html>
- <https://epustakalay.com/book/27260-bhautik-bhugol-by-dr-l-n-upadhyaya/>
- <https://open.umn.edu/opentextbooks/textbooks/926>
- <http://www.physicalgeography.net/fundamentals/contents.html>
- https://books.google.co.in/books/about/Principles_of_Physical_Geography.html?id=WHqvCwAAQBAJ&redir_esc=y

OnlineResources–(e-Resources/e-books and e-learning portals)

- www.ignou.ac.in
- www.egyankosh.ac.in
- www.iitm.ac.in
- www.eskillindia.org
- www.eschiksha.mp.gov.in
- www.vlab.co.in
- www.swayam.ac.in
- www.internshala.com

PART-D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment(CIA): 30 Marks

End Semester Exam(ESE): 70 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 20 +20 Assignment/Seminar- 10 Total Marks -30	Better marks out of the two Test / Quiz+ obtained marks in Assignment shall be considered against 30 Marks
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4=20Marks Section B: Descriptive answer type qts., 1 out of 2 from each unit- 4x10=40Marks	

Signature of Convener, Members of CBoS

- ① Dr. B. L. S. [Signature]
- ② Dr. A. H. [Signature]
- ③ Dr. S. S. [Signature]
- ④ Dr. C. P. [Signature]
- ⑤ Dr. D. D. Kashyap [Signature]
- ⑥ Dr. K. J. P. [Signature]
- ⑦ A. BECK [Signature]
- ⑧ [Signature]
- ⑨ [Signature]
- ⑩ Dr. S. [Signature]
- ⑪ [Signature]
- ⑫ Dr. S. [Signature]
- ⑬ Dr. S. [Signature]

FOUR YEAR UNDERGRADUATE PROGRAM (2024 - 28)
DEPARTMENT OF GEOGRAPHY
COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Arts (Certificate / Diploma / Degree / Honors)		Semester -I	Session: 2024-2025
1	Course Code	GOGG - 01 P	
2	Course Title	Practical 1 - Cartography-Tools and Techniques	
3	Course Type	Practical	
4	Pre-requisite (if, any)	As per program	
5	Course Learning Outcomes (CLO)	At the end of this practical course the student will have an ability to 5- Understand the basic concepts of cartography 6- Learn and prepare the different kinds of maps. 7- Recognize basic themes of map making. 8- Develop an idea about different types of thematic mapping techniques.	
6	Credit Value	1 Credits	Credit =30 Hours Laboratory or Field learning/Training
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20

PART -B: Content of the Course		
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)		
Module	Topics (Course contents)	No. of Period
Lab./Field Training/ Experiment Contents of Course	4- History of Cartography, Indian cartography, Modern cartography, Drawing Equipment's, 5- Characteristics Features of Map, classification of maps, Mapping methods. Tools of Map Making, Type of printed Shades. 6- Enlargement, Reduction and Combination of Maps- Graphical and Mechanical Methods.	30
Keywords	Cartography ,Enlargement, Reduction , Graphical	

① ગાંધી નીચી ② આંધ્ર પ્રદેશ ③ એક નામના નો પાલ
 ④ માર્ક્સ ⑤ રિલેટી ⑥ પાલિકા કમિટી ⑦ મોન્ટેગુ ચેમ્બર્સ
 ⑧ રાજકીય પેટાકાગળ ⑨ આંધ્ર પ્રદેશ

Signature of Convener, Members of CBOS : (1) Dr. S. J. Kumar (2) Dr. S. J. Kumar
 (3) Dr. S. J. Kumar (4) Dr. S. J. Kumar (5) Dr. S. J. Kumar
 (6) Dr. S. J. Kumar (7) Dr. S. J. Kumar (8) Dr. S. J. Kumar
 (9) Dr. S. J. Kumar

PART-C: Learning Resources

Text Books, Reference Books and Others

1. Sharma, I.P. (2001) Prayopik Bhugol, Rastogi Publication, Meerut 3rd edition.
5. Singh, R.L. and Singh, Rana P.R. (1993): Elements of Practical Geography. (Hindi and English editions) Kalyani Publishers, New Delhi.
6. Singh, I.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan,
7. Hareem, M., Practical Geography, Mishra Trading Corporation, Varanasi, 2010
8. Chaudhan, P.R. 2005, Practical Geography, Vasundhara Prakashan, Gorakhpur
9. Ishyak M. 1989, A Textbook of Practical Geography, Heritage Publication New Delhi

Online Resources-(e-Resources/e-books and e-learning portals)

- <https://books.google.co.in/books>
- <https://uou.ac.in/sites/default/files/slm/DGIS->
- https://books.google.co.in/books?id=mZKhRkZ7qawC&printsec=copyright&redir_esc=y#v=onepage&q&q&f=false
- https://www.researchgate.net/publication/372371977_PRACTICAL_GEOGRAPHY_Prof_RN_Mishra_Dr_PK_Sharma_SAMPLE_COPY

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks:	50 Marks
Continuous Internal Assessment (CIA):	15 Marks
End Semester Exam (ESE):	35 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
	Assignment/Seminar + Attendance - 05 Total Marks - 15	
End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment	Managed by Course teacher as per lab. status
	D. Performed the Task based on lab. work - 20 Marks E. Spotting based on tools & technology (written) - 10 Marks F. Viva-voce (based on principle/technology) - 05 Marks	

Signature of Convener, Members of CBoS:

① Dr. S. L. S. ...
② ...
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④ ...
⑤ ...
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⑩ Dr. S. ...
Dr. ...

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FOUR YEAR UNDERGRADUATE PROGRAM(2024 - 28)
DEPARTMENT OF GEOGRAPHY
COURSE CURRICULUM

PART-A: Introduction

Program: Bachelor in Arts (Certificate / Diploma / Degree/Honors)		Semester - II	Session: 2024-2025
1	Course Code	GOSC - 02 T	
2	Course Title	Fundamental of Human Geography	
3	Course Type	DSC	
4	Pre-requisite(if, any)	As per the program	
5	Course Learning Outcomes(CLO)	At the end of this course the student will e have an ability to 1- Gain knowledge about major themes of human Geography. 2- Acquire knowledge on the history and evolution of humans. 3- Understand the approaches and processes of Human Geography as well as the diverse patterns of habitat and adaptations. 4- Ability to develop an idea about space and society. 5- Understand the evolution of varied types of economic activities. 6- Assess the varied aspects of development and regional disparity, in order to formulate measures of balanced development and sustainable development.	
6	Credit Value	3 Credits	Credit = 15 Hours -learning & Observation
7	Total Marks	Max. Marks: 100	Min Passing Marks:40

PART -B: Content of the Course

Total No. of Teaching-learning Periods(01 Hr. per period) - 45 Periods (45 Hours)		
Unit	Topics (Course contents)	No. of Period
I	Introduction to Human Geography Definition, nature and scope. Fundamental concept in Human Geography . Understanding of man- nature relationship:- Determinism, Possibilism and Neo-determinism. Classification of Human Occupation	12
II	Population and Settlement - Growth of population, distribution and density of the world. Socio- economic Pattern of Population – Literacy, Migration:- Causes, and types .Occupational Structure. Theory and Model of population growth:-Concept of Optimum Population, Over Population and Under population.	10
III	Human Settlement and Races- Types and characteristics of human settlement- Rural settlement and Urban Settlement. Human Races- Basis of Racial Classification, world distribution. Habitat and economy of selected communities (Gond, Eskimo, Bushmen).	12
IV	Geography and Development- Indicators and measures of Regional development . Global pattern of development:- inter-regional variations, HDI. Concept of Sustainable Development.	11
Keywords	Determinism, Possibilism, Occupational Structure. Optimum Population, Racial	

Signature of Convener, Members of CBOS :

Dr. A. L. S...

Dr. R. K. Thakur...

M. S. S. A. H. U. - (2024)

Dr. C. P. K...

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10. Dr. S. Y...

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13 Dr. S. P. K. ...

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Text Books Recommended

Text Books Recommended — *Mathematics* by Prentice Hall, New Jersey, 2001

- Text Books Recommended -**
- 10- James, M. Robenstein, *An Introduction to Human Geography*, Prentice Hall, New Jersey, 2001
 - 11- Michael, Can, *New Patterns: Process and Change in Human Geography* Nelson, 1997
 - 12- Hussain Mazid- *Human Geography*, (Hindi & English Both) Rawat Publication Jaipur
 - 13- Garg H.S. *Manav Bhoogol*, SBPD Publication, Agri.
 - 14- Haroon Mohammad, *Manav Bhoogol*, Wisdom Publication
 - 15- Kausik S.D. *Manav avam Arthik Bhoogol*, Rastogi publication Meerut.
 - 16- Maurya, S.D. *Manav Bhoogol*, Sharda Pustak Bhavan, Prayagraj. 2009
 - 17- Khullar, D. R. *Human Geography*, (In Hindi) Kalyani Publishers, Ludhiyana, 2016
 - 18- Prasad, Gayatri, *Cultural Geography*, (In Hindi) Sharda Pustak Bhavan . Prayagraj.

Reference books:

5- Bergman, Edward E., *Human Geography: Culture, Connections and Landscape*, Prentice Hall, New Jersey, 1995

6- Brown, John, *Education*, London, 1987

- Reference books:**
- 5- Bergwan, Edward E., *Human Geography: Culture, Connections and Landscape*, Prentice Hall, New Jersey, 1995
 - 6- Carr, M., *Patterns, Process and change in Human Geography*, MacMillan Education, London, 1987.
 - 7- Daniels Peter, Bradshaw Michael, Shaw Devil and Side way James, *Human Geography: Issues for the Twenty First Century*, Prentice Hall, New Jersey, 2001
 - 8- Clarke, J I, *Population Geography of Developing Country*, Pergamon press ,Oxford, 1971

➤ <https://web.ung.edu/media/university-press/human-geography.pdf>

- ✓ <https://web.ung.edu/media/university-press/human-geography.pdf>
- ✓ <https://www.drishtiias.com/hindi/images/pdf/NCERT-Hindi-Class-12-Geography-Part-1.pdf>
- ✓ <http://assets.vmu.ac.in/GE05.pdf> Human Geography
- ✓ <https://open.umn.edu/opentextbooks/textbooks/870>

www.ignou.ac.in

- ✓ www.ignou.ac.in
- ✓ www.egyankosh.ac.in
- ✓ www.iitm.ac.in
- ✓ www.eskillindia.org
- ✓ www.eshiksha.mp.gov.in
- ✓ www.vlab.co.in
- ✓ www.swavam.ac.in
- ✓ www.internshala.com

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment(CIA):30 Marks

End Semester Exam (ESE):70 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 20 +20 Assignment/Seminar- 10 Total Marks -30	Better marks out of the two Test / Quiz+ obtained marks in Assignment shall be considered against 30 Marks
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 =20Marks Section B: Descriptive answer type qts., 1out of 2 from each unit-4x10=40Marks	

Signature of Convener, Members of CBoS :

Dr. G. L. Sear

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— Dr. Sophie A.



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FOUR YEAR UNDERGRADUATE PROGRAM (2024 - 28)
DEPARTMENT OF GEOGRAPHY
COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Arts (Certificate / Diploma / Degree/ Honors)		Semester -II	Session: 2024-2025
1	Course Code	GOSC – 02 P	
2	Course Title	Practical 2 - Scale and Representation of Relief	
3	Course Type	Practical	
4	Pre-requisite (if, any)	As per program	
5	Course Learning Outcomes (CLO)	At the end of the this course the student will be able to 1- Understand and prepare different kinds of Scales and comprehend the concept of scales . 2- Identify the features of the land form through counters 3- Developed the Relief Map Making skills. 4- Gain in-depth knowledge on Drawing of Contour Features.	
6	Credit Value	1 Credits	Credit =30 Hours Laboratory or Field learning/Training
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20

PART -B: Content of the Course		
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)		
Module	Topics (Course contents)	No. of Period
Lab./Field Training/ Experiment Contents of Course	1- Scale- Methods of representing Scale, Conversion of Scale Type of Linear Scale- Simple Scale, Time Scale, Comparative Scale, Diagonal Scale 2- Representing of Relief- Pictorial, Mathematical and Combine Methods. 3- Contours-Land forms Representing By Contours- Hill, Ridge, Plateau, V shaped Valley, U shaped Valley, Waterfall,	30
Keywords	Scale, Diagonal ,Relief, V shaped Valley, Ridge	

Signature of Convener, Members of CBoS

Dr. B. L. Sini Dr

Dr. R. K. Thakur Signature

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Dr C. P. Nair)

Dr. Dr S. Yacub

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2. Dr. Stephen Ambrose - 10/1/00

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PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books-

1. Sarkar, A.K. (1997): *Practical Geography : A Systematic Approach*. Orient Publication ,Kolkata.
2. Sharma, J.P. (2001): *Prayogik Bhugol*, Rastogi Publication, Meerut .
3. Singh, R.L. and Singh, Rana P.B. (1993): *Elements of Practical Geography*. (Hindi and English editions). Kalyani Publishers, New Delhi.
4. Singh, L.R. (2006) : *Fundamentals of Practical Geography*, Sharda Pustak Bhawan,
5. Haroon, M. , *Practical Geography*, Mishra Trading Corporation, Varanasi, 2010
6. Chauhan, P R. 2005, *Practical Geography*, Vasundhara Prakashan, Gorakhpur
7. Istiyak.M. 1989, *A Textbook of Practical Geography*, Heritage Publication New Delhi
8. Mishra R.N. ,P K Sharma, *Prayogik Bhoogol* Rawat Publication, Jaipur ,2019
9. Khullar , D.R., *Prayogatmak Bhoogol*, Kalyani Publishers, Ludhiyana.

E books-

- 1- <https://www.slideshare.net/NisarKhand/instrumental-surveying-practical-plane-table-survey>
- 2- <https://bbsbec.edu.in/wp-content/uploads/2020/01/com.pdf>
- 3- <https://surveyofindia.gov.in/documents/soichapter-v.pdf>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10 Assignment/Seminar +Attendance - 05 Total Marks - 15	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment A. Performed the Task based on lab. work - 20 Marks B. Spotting based on tools & technology (written) – 10 Marks C. Viva-voce (based on principle/technology) - 05 Marks	Managed by Course teacher as per lab. status

Signature of Convener, Members of CBoS :

Dr. 23 L. Jan 1944

Dr. R. H. Thoma, Jr.

N). 5-511-11 - 125265

Dr C.P. NANNI

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10. Dr. S. Yadav

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13 Dr. Sophie A



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बी.ए./बी.एस.सी. तृतीय वर्ष
प्रश्न पत्र-प्रथम
सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली

अधिकतम अंक: 50

- इकाई -1 : सुदूर संवेदन का अर्थ तथा आधारभूत संकल्पना : परिभाषा, इतिहास, एवं विषय क्षेत्र; विद्युत चुम्बकीय विकिरण : विशेषताएँ, वर्णक्रमीय (SPECTRAL) प्रदेश एवं बैंड; पृथ्वी के धरातल एवं वायुमण्डल के साथ विकिरण अर्जा की अन्योन्यक्रिया, वर्णक्रमीय (SPECTRAL)लक्षण ।
- इकाई -2 : सुदूर संवेदन के प्रकार : वायु जनित एवं अंतरिक्ष जनित; हवाई छायाचित्र : प्रकार एवं विशेषताएँ; सुदूर संवेदन उपग्रह : प्लेटफार्म एवं संवेदक : सक्रिय एवं निष्क्रिय, संवेदक की विशेषताएँ : स्थानिक विभेदन, वर्णक्रमीय (SPECTRAL) विभेदन, रेडियोमेट्रिक विभेदन, अल्पकालिक विभेदन, उत्पाद ।
- इकाई -3 : चाक्षुष एवं अंकीय बिम्ब प्रक्रियान्वयण तकनीक; संसाधन मानचित्रण एवं पर्यावरण नियंत्रण में सुदूर संवेदन अनुप्रयोग, भारत में सुदूर संवेदन; उद्भव एवं विकास ।
- इकाई -4 : भौगोलिक सूचना प्रणाली का परिचय : भूसूचना की परिभाषा, भूसूचना का महत्व एवं विषय क्षेत्र, भौगोलिक सूचना प्रणाली का इतिहास, जी० आई० एस० की संकल्पना, जी० आई० एस० के कार्य - आंकड़ा प्रवेश, संचालन, परिचालन, प्रबंधन, त्रुटि संसूचन, विश्लेषण एवं प्रदर्शन, धरातलपत्रक, सर्वेक्षण, हवाई बिम्ब, उपग्रह आंकड़े एवं बिम्ब, आकड़ों के प्रकार धरातलीय एवं अधरातलीय या लाक्षाणिक ।
- इकाई-5 : आंकड़ा मॉडल एवं आंकड़ा विश्लेषण : रॉस्टर आंकड़ा एवं उसकी विशेषताएँ, वेक्टर आंकड़ा एवं उसकी विशेषताएँ, रास्टर आंकड़ा विश्लेषण : ग्रिड सेल अथवा पिक्सल, वेक्टर आंकड़ा विश्लेषण धरातलीय आंकड़ा, वेक्टर प्रारूप की रचना धरातलीय एवं अधरातलीय आंकड़ा प्रबंधन, धरातलीय सूचना तकनीक ।

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.J. (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,
10. चौनियाल, देवी दत्त (2004), सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली, शारदा पुस्तक भवन, इलाहाबाद-2.

29/06/2021
Dr. S. S. Singh

29/6/21

29/06/2021
Neelam Kumari

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Dr. Bheerappa

29/6/2021
Dr. Jyoti Singh

बी.ए./बी.एस.सी. तृतीय वर्ष
प्रश्न पत्र-द्वितीय
छत्तीसगढ़ का भूगोल

अधिकतम अंक : 50

- इकाई -1. भौतिक स्वरूप भौमिकीय संरचना उच्चावच, भूआकृतिक प्रदेश, अपवाह, जलवायु ।
- इकाई -2. प्राकृतिक संसाधन-मिट्टी, प्रकार, विशेषताएँ, वितरण, जलसंसाधन: प्रमुख सिंचाई और बहुउद्देशीय परियोजनाएँ, वन : प्रकार, वितरण, वनों का संरक्षण, खनिज संसाधन - लौह अयस्क, कोयला डोलोमाइट, चुना पत्थर और बाक्साइट छत्तीसगढ़ में शक्ति के संसाधन ।
- इकाई -3. कृषि- प्रमुख खाद्यान्न फसलें, दलहन एवं अन्य फसलें, जनसंख्या- वृद्धि, वितरण और घनत्व, जनजातिय जनसंख्या । ग्रामीण और नगरीय जनसंख्या ।
- इकाई -4. उद्योग, लौह इस्पात उद्योग, सिमेंट चीनी, एल्युमिनीयम, छत्तीसगढ़ के औद्योगिक प्रदेश ।
- इकाई -5. व्यापार, परिवहन, पर्यटन, छत्तीसगढ़ का सामाजिक आर्थिक विकास ।

Books Recommended:

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 (): 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

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Dr. Sushama

29/06/2021
Dr. Jaisankh Satw

खण्ड (अ)

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मानचित्र पठन एवं निर्वचन

इकाई -1. बैन्ड ग्राफ, हीदर ग्राफ, क्लाइमोग्राफ, पवनारेख ।

इकाई -2. भारतीय स्थलाकृतिक मानचित्र की व्याख्या प्रकार, वर्गीकरण धरतलीय मानचित्र के प्रकार एवं विप्लेषण, राष्ट्रीय एवं अन्तराष्ट्रीय भौतिक एवं सांस्कृतिक तत्वों के आधार पर विप्लेषण ।

इकाई -3. उपग्रह बिम्ब : प्रारम्भिक सूचनाओं की व्याख्या बिम्ब निर्वचन : चाक्षुश विधि - भूमि उपयोग भूमि आच्छादन मानचित्रण, जी0 पी0 एस0 का उपयोग एवं अनुप्रयोग ।

खण्ड (ब)

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सर्वेक्षण एवं क्षेत्रीय प्रतिवेदन

इकाई -4. सर्वेक्षण, समपटल सर्वेक्षण, प्रतिच्छेदन एवं स्थिति निर्धारण ।

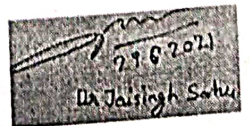
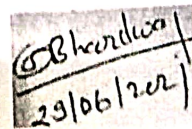
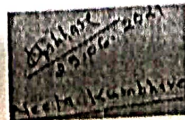
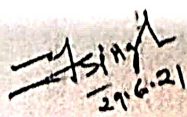
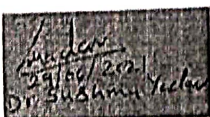
इकाई -5. भूगोल में क्षेत्रीय कार्य का महत्व किसी छोटे क्षेत्र का भौतिक सामाजिक आर्थिक सर्वेक्षण और रिपोर्ट तैयार करना ।

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प्रायोगिक पुस्तिका और मौखिक परिक्षण परीक्षा

Books Recommended:

1. Archer, J.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*. 4th 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*, 4th 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.
12. Jensen, J.R. (2004): *Remote Sensing of the Environment: An Earth Resource Perspective*. Prentice-Hall, Englewood Cliffs, New Jersey. Indian reprint available.
13. Jones, P.A. (1968): *Fieldwork in Geography*, Longmans, Green and Company Ltd., First Publication, London



14. Kanetker, T.P. and Kulkarni, S.V.(1967): Surveying and Levelling, Vol I and II V.G. Prakashan, Poona.
15. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. John Wiley and Sons, New York.
16. Monkhouse, F. J. (1985): Maps and Diagrams. Methuen, London.
17. Nag, P. (ed.) (1992): Thematic Cartography and Remote Sensing. Concept Publishing Company, New Delhi.
18. Natrajan, V. (1976): Advanced Surveying, B.I. Publications., Mumbai.
19. Rampal, K.K. (1999): Handbook of Aerial Photography and Interpretation. Concept Publishing. Company, New Delhi.
20. Raisz, E. (1962): Principles of Cartography, McGraw Hill, New York.
21. Robinson, A. H., Sale. R. D., Morrison, J. L. and Muehrcke, P. C. (1984): Elements of Cartography. 5th edition, John Wiley and Sons, Inc. New York.
22. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata
23. Sharma, J. P. (2001): *Prayogik Bhugol.*, Rastogi Publication, Meerut 3rd. edition.
24. Singh, R.L. and Singh Rana P.B. (1993): *Elements of Practical Geography*. (Hindi and English editions). Kalyani Publishers, New Delhi.
25. Stoddard, Robert H. (1982): *Field Techniques and Research Methods in Geography*. Kendall/Hunt Pub. Dubuque IO.

UNIFIED SYLLABUS

B.A./B.Sc. Part-II—GEOGRAPHY

PAPER-I—ECONOMIC AND RESOURCES GEOGRAPHY

- Unit I Meaning, scope and ^{concept of} 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, ^{coffee, cotton}
- 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. ^{SARE, Blocks, etc}
- Unit V Conservation of resources; evolution of the concept, principles, philosophy, and approach to conservation, resources conservation and practices. Policy making and sustainable development.

PAPER-II—GEOGRAPHY OF INDIA

- 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. ^{Atomic 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.

PAPER-III—PRACTICAL GEOGRAPHY

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

(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)

PAPER-II—GEOGRAPHY