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 - 1**		
2	**Course Title**	**FUNDAMENTAL OF PHYSICAL GEOGRAPHY**		
3	**Course Type**	**THEORY**		
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 :

Dr, Satish Dubey (convenor)

Dr. Kaveri Dabhadker (Member)

Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

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.N. 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 6 th 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.eshiksha.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., **1out of 2** from each unit- **4x10=40Marks**	

Signature of Convener Members :

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Dr, Sheela Shreedhar(Member) Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

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-1/PR**		
2	**Course Title**	**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*** ***1-*** Understand the basic concepts of cartography ***2-*** Learn and prepare the different kinds of maps. ***3-*** Recognize basic themes of map making. ***4-*** 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	1- History of Cartography, Indian cartography, Modern cartography, Drawing Equipment's, 2- Characteristics Features of Map, classification of maps, Mapping methods. Tools of Map Making, Type of printed Shades. 3- Enlargement, Reduction and Combination of Maps- Graphical and Mechanical Methods.	**30**
Keywords	Cartography ,Enlargement, Reduction , Graphical	

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PART–C: Learning Resources

Text Books, Reference Books and Others

1. Sharma, J.P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd edition.
2. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi.
3. Singh, L.R. (2006) : Fundamentals of Practical Geography, Sharda Pustak Bhawan,
4- Haroon, M. , Practical Geography, Mishra Trading Corporation, Varanasi,2010
5- Chauhan, P R. 2005, Practical Geography, Vasundhara Prakashan, Gorakhpur
6- Istiyak.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&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** 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**

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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**		
2	**Course Title**	**FUNDAMENTAL OF HUMAN GEOGRAPHY**		
3	**Course Type**	**THEORY**		
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	

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Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1- James, M. Robenstein, An *Introduction to Human Geography*, Prentice Hall, New Jersey, 2001
2- Michael, Can, *New Patterns: Process and Change in Human Geography Nelson,* 1997
3- Hussain Mazid- Human Geography, (Hindi & English Both) Rawat Publication Jaipur
4- Garg H.S. Manav Bhoogol, SBPD Publication, Agra.
5- Haroon Mohammad, Manav Bhoogol, Wisdom Publication
6- Kausik S.D. Manav avam Arthik Bhoogol, Rastogi publication Meerut.
7- Maurya, S.D. Manav Bhoogol, Sharda Pustak Bhavan, Prayagraj.2009
8- Khullar, D. R. Human Geography,(In Hindi) Kalyani Publishers, Ludhiyana, 2016
9- Prasad, Gayatri, Cultural Geography, (In Hindi) Sharda Pustak Bhavan . Prayagraj.

Reference books:

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

E-Books

- 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.vmou.ac.in/GE05.pdf-Human Geography
- https://open.umn.edu/opentextbooks/textbooks/870

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.eshiksha.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.,**1out of 2** from each unit-**4x10**=**40Marks**	

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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-2/PR**		
2	**Course Title**	**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	

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Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

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.

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&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**
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End Semester Exam (ESE):	**35 Marks**

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FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART-A: Introduction

Program: Bachelor in Arts *(Diploma / Degree / Honors)*	**Semester – III**	Session: **2024-2025**

1	**Course Code**	**GOSC - 03**		
2	**Course Title**	**ECONOMIC GEOGRAPHY**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per program***		
5	**Course Learning. Outcomes(CLO)**	**At the end of this course the student will be able to** 1. Understand about the nature and scope of Economic Geography. 2. Understand the concept and classification of resources natural and minerals. 3. Identify the major Crops their production and distribution. 4. Understand the fundamentals of major economic theories, 5. Understand the economic activities-primary secondary and tertiary 6. Understand the basic theories of Agriculture and Industrial location		
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	**Concepts of economic Geography** Meaning scope and major concept of economic Geography, Resources meaning classification – renewable and non-renewable and their conservation.	**12**
II	**Mineral resources:** Iron ore and Bauxite, Power resource- Coal, Petroleum & Hydro-electricity Principal Crops- Rice Wheat, Sugar cane, Tea, Coffee, Cotton	**11**
III	**Major Industries:** Mineral based-Iron and Steel Industry, Cement Industry, Forest based- Paper Industries Agro based- Cotton Textile Industries,	**11**
IV	**Theory of Agriculture location** –Von Theunen, Agriculture regions of the world- D. Whittlesey Theory of Industrial location- Weber	**11**
Keywords	***Resources:***	

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Dr. Kalpana Ganodwale (Member)

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PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Alexander,J.W.(1988):EconomicGeography.Prentice-Hall,NewDelhi,.
2. Bryson,J.,Henry,N.,Keeble,D.andMartin,R.(eds.)(1999):TheEconomicGeography Reader: Producing and Consuming Global Capitalism.JohnWileyandSons,Inc,NewYork.
3. Clark,G.L.,Gertler,M.S.andFeldman, M.P.(eds.)(2000):TheOxford HandbookofEconomicGeography.OxfordUniversityPress,USA.
4. Coe,N.(2007):EconomicGeography:AContemporaryIntroduction.Blackwell Publishers,Inc.,Massachusetts.
5. Gautam,A.(2006):*AarthikBhugo/KeMoo/Tattava,*ShardaPustakBhawan,Allahabad.

Online Resources–

e-Resources / e-books and e-learning portals

- https://epustakalay.com/book/55674-economic-geography-by-shankar-sahay-saxena/
- https://sahityabhawanpublications.com/product/economic-geography-hindi-book/
- https://himanshupublications.com/product/economic-resource-geography-hindi/
- https://books.google.co.in/books/about/Economic_Geography_%E0%A4%86%E0%A4%B0%E0%A5%8D%E0%A4%A5%E0%A4%BF%E0%A4%95.html?id=ElHnEAAAQBAJ&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.eshiksha.mp.gov.in**
- **www.vlab.co.in**
- **www.swayam.ac.in**
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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.,**1out of 2** from each unit-**4x10=40Marks**	

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Dr. Anil Sinha (Member)

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

PART-A: Introduction				
Program: Bachelor in Arts *(Diploma / Degree / Honors)*			**Semester -III**	Session: **2024-2025**
1	**Course Code**	**GOSC – 3 / PR**		
2	**Course Title**	**MAP PROJECTION**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes(CLO)**	**After the completion of course, the students will have ability to:** 1. Read and prepare maps. 2. Comprehend locational and spatial as pects of the earth surface. 3. Use and importance of maps for regional development and decision making.		
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		
Total No.of learning-Training/performancePeriods:30 Periods (30 Hours)		
Module	**Topics (Course contents)**	**No. of Period**
Lab./Field Training/ Experiment Contents of Course	Map Projection -Classification, Characteristics, Merit and demerit Gnomonic Polar Zenithal Projection, Stereographic Polar Zenitha Projection, Orthographic Polar Zenithal Projection, Conical Projection wit One Standard Parallel, Conical Projection with Two Standard Parallel, Bonne Projection, Polyconic Projection Simple Cylindrical Projection, Cylindrical Equal Area Projection, Marcators Projection, Galls Projection.	**30**
Keywords	Map Projection- Polar Zenithal, Conical and Cylindrical Projection,	

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PART–C: Learning Resources

Text Books, Reference Books and Others

1- Sharma, J.P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd edition.
2- Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi.
3- Singh, L.R. (2006) : Fundamentals of Practical Geography, Sharda Pustak Bhawan,
4- Haroon, M. , Practical Geography, Mishra Trading Corporation, Varanasi,2010
5- Chauhan, P R. 2005, Practical Geography, Vasundhara Prakashan, Gorakhpur
6- Istiyak.M. 1989,A Textbook of Practical Geography,Heritage Publication New Delhi

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- 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&f=false
- https://www.researchgate.net/publication/372371977_PRACTICAL_GEOGRAPHY_Prof_RN_Mishra_Dr_PK_Sharma_SAMPLE_COPY

PART -D: Assessment andEvaluation

Suggested Continuous Evaluation Methods:

Maximum Marks:	**50 Marks**
Continuous Internal Assessment(CIA):	**15 Marks**
EndSemester Exam(ESE):	**35 Marks**

Continuous Internal Assessment(C IA): (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 :

Dr, Satish Dubey (convenor) Dr. Kaveri Dabhadker (Member)

Dr, Sheela Shreedhar(Member) Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

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

PART- A: Introduction				
Program: Bachelor in Arts *(Diploma / Degree / Honors)*		**Semester - IV**	Session: **2024-2025**	
1	**Course Code**	**GOSC - 04**		
2	**Course Title**	**GEOGRAPHY OF INDIA**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Govt. norm***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Understand about the physiographic division of India and drainage system. 2. Understand the seasonal variations of climate and monsoon of India. 3. Understand the biotic and abiotic resources of India. 4. Understand the growth density and distribution of population of India. 5. Understand the economic activity primary, secondary and tertiary.		
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	**Physical Features:** Structure, relief, Drainage, Climate and Monsoon, Soil, Water resourc and Forest.	**12**
II	**Agriculture-Major Cereals:** Paddy, Wheat, Tea, Coffee, Sugarcane Population-Growth, Density, Distribution	**11**
III	**Mineral resources:** Iron Ore, Bauxite, Coal, Petroleum & Natural gas, Atomic energy and Non-conventional energy resources	**11**
IV	**Industries localization, development and production-** Iron and Steel, Cotton Textile, Cement & Sugar Industries, Industrial Regions, SEZ Trade and Transport	**11**
Keywords	***Physical feature, Agricultue, Mineral***	

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Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text 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 oflndia, Sharda Pustak Bhawan, Allahabad
4. Johnson, B.L.C. (1963):Development in South Asia. Penguin Books, Harrnondsworth
5. Krishnan, M.S.(1982): Geology oflndia and Bunna, CAS Publishers and Distributors, Delhi.
6. Khullar, D.R. (2007): India:A Comprehensive Geography, Kalyani Publishers, New ·oethi
7. Nag, P. and Gupta, S.S. (1992): Geography oflndia, Concept Publishing Company,New Delhi.

Online Resources–

- https://www.iipa.org.in/upload/ind_geo.pdf
- https://ncert.nic.in/textbook.php?kegy2=0-16
- https://archive.org/details/indiaasacredgeography

Online Resources–

- **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.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 =20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10=40 Marks**	

Signature of Convener Members :

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Dr. Anil Sinha (Member)

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts ***(Diploma / Degree / Honors)***			**Semester -IV**	Session: **2024-2025**
1	**Course Code**	**GOSC- 04 / PR**		
2	**Course Title**	**REPRESENTATION OF STATISTICAL DATA**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1- Read and prepare diagram. 2- Acquire knowledge to prepare Graphs and diagram from geographic data and also the ability to interpret them. 3- To understand basic statistical methods and skills for cartographic transformation of information. Skills in graphical representation of data pertaining to geography will be given.		
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	Representation of Statistical Data- Kinds of Diagram- One Dimensional, Two Dimensional and Three Dimensional. Bar Diagram, Multiple Bar Diagram , Simple Pyramid Diagram, Block Diagram, Wheel Diagram , Wind Rose, Band Graph,	**30**
Keywords	Statistical Data, Multiple, Three dimensional, Pyramid, wind rose.	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

1. Chauhan, P R. 2005, Practical Geography, Vasundhara Prakashan, Gorakhpur
2. Sharma, J.P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd edition.
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. Istiyak.M. 1989,A Textbook of Practical Geography, Heritage Publication New Delhi

E books-

1. **Map Work and Practical Geography** **https://books.google.co.in/books**
2. ***Practical*** Geography, S.B.P.D Publications https://uou.ac.in/sites/default/files/slm/DGIS- 504.pdf.
3. https://ncert.nic.in/ncerts/l/legy303.pdf\
4. https://www.uou.ac.in/sites/default/files/slm/GE-203.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 :

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FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts *(Degree / Honors)*			**Semester - V**	Session: **2024-2025**
1	**Course Code**	**GOSC - 05**		
2	**Course Title**	**DEMOGRAPHY AND POPULATION**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Learn the role of demography and population studies as a distinct fields of human geography 2. Have sound knowledge of key concept, different components of population along with its drivers 3. Examine population dynamics and characteristic with contemporary issues 4. Students will able to evaluate the contemporary issues		
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	**Defining the Field :** Nature and Scope; Sources of Data with special reference to India (Census, Vita Statistics and NSS).	**12**
II	**Population Growth & distribution :** Population Size, Distribution and Growth – Determinants and Patterns; Theories of Growth – Malthusian Theory and Demographic Transition Theory OF Population	**11**
III	**Population Dynamics :** Dynamics: Fertility, Mortality and Migration – Measures, Determinants and implication	**11**
IV	**Population composition & contemporary issues :** Population Composition and Characteristics – Age-Sex Composition; Rural and Urban Composition; Literacy. Contemporary Issues – Ageing of Population; Declining Sex Ratio; HIV/AIDS	**11**
Keywords	***Population Growth, Composition, Contemperory Issues.***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Barrett, H. R., (1995): Population Geography, Oliver and Boyd.
2. Bhende, A. and Kanitkar, T., (2000): Principles of Population Studies, Himalaya Publishing House.
3. Chandna, R C (2006): JansankhyaBhugol, Kalyani Publishers, Delhi
4. Clarke, J. I., (1965): Population Geography, Pergamon Press, Oxford.
5. Maurya, S D (2009): JansankyaBhugol, Sharda Putak Bhawan, Allahabad
6. Panda, B. P., (1988): JanasankyaBhugol, M P Hindi Granth Academy, Bhopal

Online Resources–

https://www.amazon.in/Demography-Population-Problems-Rajendra-Sharma/dp/817156691X
https://www.rawatbooks.com/demography/population

Online Resources–

- **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.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** =**20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10**=**40 Marks**	

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FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts *(Degree / Honors)*			**Semester - V**	Session: **2024-2025**
1	**Course Code**	**GOSC- 5 /PR**		
2	**Course Title**	**DISTRIBUTION MAPS AND THREE DIMENSIONAL DIAGRAMS**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**At the end of this course, the students will be ability to** ➢ Recognize the different types of thematic Map. ➢ Making of such maps to understand the representation of climate data, socio-economic data		
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	Maps & Diagrams - definition, types, importance Distribution Maps: Choropleth Map , Chorochromatic Map, Isopleth, Dot Map, Construction of three dimensional Diagram Cube Diagram, Spherical diagram Hythergraph, Climograph, Ergograph, Block diagram	**30**
Keywords	***M*aps, Three dimensional diagram**	

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Dr, Sheela Shreedhar(Member) — Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended -.

1. Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers, Meerut.
2. Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
3. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
4. Singh, L R & Singh R (1977): Manchitra or Pryaogatamek Bhugol , Central Book, Depot, Allahabad 1.
5. Singh R L and Duttta P K (2012) Prayogatama Bhugol, Central Book Depot, Allahabad
6. Prof. R.N.Mishra & P.K.Sharma (2023) Practical Geography ,Pareek Publication Jaipur

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&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** 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**

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Dr. Anil Sinha (Member)

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

PART- A: Introduction				
Program: Bachelor in Arts ***(Degree / Honors)***		**Semester VI**	Session: **2024-2025**	
1	**Course Code**	**GOSC-6**		
2	**Course Title**	**GEOMORPHOLOGY**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Understand the theories and fundamental concepts of Geomorphology. 2. Understand earth's tectonic and structural evolution. 3. Gain knowledge about earth's interior. 4. Develop an idea about concept of plate tectonics, and resultant landforms. 5. Acquire knowledge about types of folds and faults and earthquakes, volcanoes and associated landforms. 6. Understanding crustal mobility and tectonics; with special emphasis on their role in landform development. 7. Overview and critical appraisal of landform development models		
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	**Nature and Scope of Geomorphology**, Fundamental Concepts: Uniformitarianism Concept of Geologic Structure and Concept of Geomorphic Processes. Geological Tim Scale, Interior of the earth. Earth movements: Endogenic movement: Fold, Fault, Eart quake, Volcano, Plate tectonics with special reference to Himalaya.	**12**
II	**Exogenic process:** Weathering, Mass wasting, Normal cycle of erosion, Interruption of the cycle of erosion, Rejuvenation and resultant topography	**11**
III	**Drainage Pattern, Geological structure and landforms:** Development of Drainage and Landscape on Folded and Domal structure	**11**
IV	**River, Aeolian, Marine, and Karst, Glacial, Periglacial:** Erosional processes and resulting landforms, Applied Geomorphology.	**11**
Key words	***Fundamental Concepts of Geomorphology, Earth movements : Endogenic, Exogenic process***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Das Gupta, A and Kapoor, A.N., (2001) *Principles of Physical Geography,* S.C. Chand & Company Ltd. New Delhi.
2. Dayal, P., (1996) A Text book of Geomorphology. Shukla Book Depot, Patna.
3. Kale, V. S. and Gupta A., (2001): *Introduction to Geomorphology*, Orient Longman, Hyderabad.
4. Khullar, D.R., (2012) *Physical Geography*, Kalyani Publishers, New Delhi.
5. गुप्ता एस एल, भूआकृ तितिज्ञान, त5ि◌ंदी माध्यम कार्◌ाान्वर्न तनदेशालर् तदल्ली तिश्वतिद्यालर् .
6. अलका गौि◌म, भूआकृ तितिज्ञान, रस्तोगी पब्लिके शन
7. तसिं5 सतिन्द्र, भूआकृ तितिज्ञान, ि◌सुि◌ंधरा प्रकाशन
8. शमाा जे पी , भूआकृ तितिज्ञान, रस्तोगी पब्लिके शन

Online Resources–

- **https://www.exoticindiaart.com/book/details/geomorphology-nzp793/**
- **https://epustakalay.com/writer/23619-savindra-singh/**
- **https://ncert.nic.in/textbook/pdf/khgy102.pdf**

Online Resources–

- **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.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** =**20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10**=**40 Marks**	

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FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts ***(Degree / Honors)***			**Semester - V**	Session: **2024-2025**
1	**Course Code**	**GOSC- 06 / PR**		
2	**Course Title**	**STUDY & INTERPRETATION OF TOPOGRAPHICAL MAP**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1- Identify the physical features of an area. Understand the relationship between physical pattern & cultural landscape. 2- Explain Morphometric analysis of river basin & slope		
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	History of topographical Map, Types , Survey of India Topo sheets Identify – relief, drainage Pattern, slope, forest cover Settlement pattern- Rural & Urban , Transport, Communication and its Relation with various landforms ,slope analysis (went worth), morphometric analysis	**30**
Keywords	***M*aps, Three dimensional diagram**	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended -.

1. Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers, Meerut.
2. Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
3. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
4. Singh, L R & Singh R (1977): Manchitra or Pryaogatamek Bhugol , Central Book, Depot, Allahabad 1.
5. Singh R L and Duttta P K (2012) Prayogatama Bhugol, Central Book Depot, Allahabad
6. Prof. R.N.Mishra & P.K.Sharma (2023) Practical Geography ,Pareek Publication Jaipur

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&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** 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 :

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Dr, Sheela Shreedhar(Member) Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

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

PART-A: Introduction

Program: Bachelor in Arts *(Honors)*	**Semester -VII**	Session: **2024-2025**

1	**Course Code**	**GOSC-7**		
2	**Course Title**	**HISTORY OF GEOGRAPHICAL THOUGHT**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite if, any)**	***As per Programme***		
5	**Course Learning. Outcomes(CLO)**	**After the completion of course, the students will have ability to:** 1. Understand the basic concept and nature of geography 2. Students of geography may be encouraged to interact with their counterparts from other disciplines and discuss the nature of their subject. 3. The students may be encouraged to collect information on any theme amenable to geographical interpretation 4. To study and understand the founding concepts of human geography in the nineteenth century academy, and over the last century from feminist and Marxist 5. scholarship, through to post-colonial and non-representational theories.		
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	**Definition & nature** : Definition, scope and functions of Geography, Geography as a social science and natural science, Geography as science of relationship, as science of areal differentiation, as spatial science. Spatial Organization, Determinism Possiblism & Neo-determinism; Dualism in geography	**12**
I I	**Geographic al knowledge in 15 century** : The growth of Geographical knowledge from earliest times up to the 15th century. Contributions of Greek and Roman thinkers, Arab Geographers. Geographical information in Ancient Indian literature, The Dark age in Geography,	**11**
I I I	**Geographical schools** : Evolution of Geographical Thinking & Disciplinary Trends in: (i) German School (ii) French School (iii) British School (iv) American Schools (v) Russian School (vi) Indian scholar	**11**
IV	**Scientific explanation** : Scientific explanations: Inductive/Deductive; Models in Geography, Quantitative revolution, positivism. Behaviorism, System Approach, Radical geography, changing paradigms	**11**
Keywords	***Dark age, german, French school, scientific explanation***	

Signature of Convener Members :

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Dr. Kaveri Dabhadker (Member)

Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Adhikari, S.: Fundamental of Geographical Thought, R.K. Books, New Delhi
2. Husain, M.: Evolution of Geographic Thought, Rawat Pub., Jaipur, 1984
3. Dikshit, R.D.: Geographical Thought: A Contexual History of Ideas, New Delhi.
4. त्रिपाठी एवं कौशिक : भौगोलिक चिंतन एवं विधितंत्र
5. श्रीवास्तव व्ही.के. : भौगोलिक चिंतन का आधार, वसुंधरा प्रकाशन
6. मौर्य, एस.डी. : भौगोलिक चिंतन
7. वर्मा, एल.एन. : भोगोलिक चिंतन एवं विधि तंत्र, म.प्र. हिन्दी ग्रंथ अकादमी

Online Resources–

- ***https://www.geoedu.lt/wp-content/uploads/2020/09/An-Introduction-to-Ideas-in-Human-Geography.pdf***
- ***https://www.scribd.com/document/511504023/Geographical-Thought-R-D-Dikshit-Sir***
- ***https://www.collegesidekick.com/study-docs/1088154***

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.eshiksha.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) : Assignment / Seminar - Total Marks -	**20 +20** **10** **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** =**20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10**=**40 Marks**		

Signature of Convener Members :

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Dr. Anil Sinha (Member)

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts ***(Honors)***		**Semester -VII**	Session: **2024-2025**	
1	**Course Code**	**GOSC – 07 / PR**		
2	**Course Title**	**INSTRUMENTAL FIELD SURVEY – CHAIN AND TAPE ,PRISMATIC COMPASS AND PLANE TABLE SURVEY**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Design and acquire field survey measurements using modern surveying instruments 2. Gain knowledge about Chain & Tape , Plane Table, & Prismatic Compass and apply this knowledge in ground surface. 3- Instrumental surveying provides proficiency in geographical knowledge related to various sizes, shapes, lengths and directions found on the earth's surface 4- Survey methods identify the actual location of objects and areas located on the ground.		
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	(A)-**Survey- Chain and Tape Survey**- Surveying instruments, Methods of Chain & Tape Surveying- Open and Close Traverse, Survey Process, Triangulation Method , Entering details in field –book, Construction of maps. **(B)-Plane Table Surveying**- Surveying instruments, Methods of Surveying-Radiation, Intersection, Traverse methods, Resection method- Two point and Three point Problems. Merits and demerits of survey. **(C) Prismatic Compass Survey**- Surveying instruments .Type of bearing, Survey Process.-Type of traverses - Open traverse, Closed traverse. Methods of Prismatic Compass Survey, Necessary precaution in the use of Prismatic Compass.	**30**
Keywords	***Open and Close Traverse ,Triangulation Method, Radiation, Intersection, Prismatic***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

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 :

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Dr. Anil Sinha (Member)

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF .....

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts *(Honors)*			**Semester VIII**	Session: **2024-2025**
1	**Course Code**	**GOSC - 08**		
2	**Course Title**	**REGIONAL PLANNING & DEVELOPMENT**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Identify notable lagging regions and solutions for their overall development 2. Have comprehensive understanding regarding the different regions and application of different models and theories for integrated regional development. 3. Select appropriate indicators for the measurement of socio-economic regional 4. 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	**Definition and concept of Region,** Evolution, Scope, Function, and Objectives of Regiona planning: Formal, Functional, and Planning Regions. Approaches of Regional Planning	**12**
II	**Delineation of Planning Region;** Regionalization of India for Planning. Regional Disparity, Decentralization of Planning Process and Multilevel Planning in India.	**11**
III	**Theories and Models for Regional Planning:** Growth Pole Model, Growth Centre, Core-Periphery Theory, Myrdal, Hirschman and Friedmann model	**11**
IV	**Sustainable Development:** Concept Efficiency-Equity Debate: Definition, Components and Sustainability for Development. Indicators (Economic, Social and Environmental Sustainable, Development Policies and Program	**11**
Keywords	***Objectives and. Approaches of Regional Planning , Delineation of Planning Region , Theories and Models for Regional Plannings***	

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Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended

1. Misra, R. P., Sundaram, K.V. and V.L.S. Prakasa Rao, (1974): Regional Development planning in India, Vikas Publishing House Delhi.
2. Singh, R.B. (2002): Human Dimensions of Sustainable Development, Rawat Pub., Jaipur, pages
3. Sen Jyotirmoy Introduction to Regional Planning and Development Rawat publication
4. श्रीवास्तव ,शर्◌ाा ,एवं चौहान ,प्रादेशशक ननयोजन ओंर स्ंा शु◌ित ववकास वसं◌ुधरा प्रकाशन गोरखपुर
5. गुप्त हरश्शकं र प्रादेशशक ववकास ओर ननयोजन कल्याणी पब्लिशसा
6. र्◌ोया एस डी प्रादेशशक ननयोजन एवं ववकास प्रवाशिका पब्लिके शन
7. चानदना आर सी प्रादेशशक ननयोजन तथा ववकास कल्याणी पब्लिशसा

Online Resources–

- ***https://www.slideshare.net/slideshow/regional-planning-notes/238082902***
- ***https://pure.iiasa.ac.at/1832/1/XB-82-001.pdf***
- ***https://www.scribd.com/doc/17599951/Regional-Planning-Part-IV-Regional-Growth-Theories***

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.eshiksha.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) : Assignment / Seminar - Total Marks -	**20 +20** **10** **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** =**20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10**=**40 Marks**		

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Dr. Anil Sinha (Member)

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts ***(Honors)***			**Semester -VIII**	Session: **2024-2025**
1	**Course Code**	**GOSC 08 / PR**		
2	**Course Title**	**MORPHOMETRIC ANALYSIS**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. understand the hydrological and morphological characteristics of any region. 2. understand the hydrological and morphological characteristics in two different morpho-climatic setting from drainage basin morphometric parameters		
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	Contours, Profiles – Serial, Superimposed, Projected, Composite . Slope Analysis – G.H. Smith, C.K. Wentworth, Robinson, S.Finsterwalder Area-height diagram : Altimetric and Hypsographic curve Block Diagrams Drainage Analysis – Order of Streams and Texture of Drainage	**30**
Keywords	***Profiles, Slope Analysis, Area-height & Block Diagrams , Drainage Analysis***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended -.

1. Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers, Meerut.
2. Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
3. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
4. Singh, L R & Singh R (1977): Manchitra or Pryaogatamek Bhugol , Central Book, Depot, Allahabad 1.
5. Singh R L and Duttta P K (2012) Prayogatama Bhugol, Central Book Depot, Allahabad
6. Prof. R.N.Mishra & P.K.Sharma (2023) Practical Geography ,Pareek Publication Jaipur

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&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** 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**

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FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts *(Diploma / Degree/ Honors)*			**Semester - III**	Session: **2024-2025**
1	**Course Code**	**GOSE - 01**		
2	**Course Title**	**CLIMATOLOGY & OCEANOGRAPHY**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Understand the elements of weather & climate and its impact in different scales. 2. Understand the Monsoon system and comprehend the climatic aspects and its bearing on planet earth. 3. Understand the Oceanic process and its impact on land water. 4. Understand the future availability of resources through Oceans. 5. Understand the Climatic change and Global warming.		
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	**Atmospheric composition and structure**, Layers, Insolation, Temperature, Factors affectin distribution of temperature. Heat budget, Inversion of Temperature, Air Pressure and winds Circulation of winds.	**12**
II	**Atmospheric moisture**, condensation, evaporation and Humidity. Cyclones- Tropical and Temperate, Monsoon -El-Nino & La Nina	**11**
III	**General Introduction of Oceans,** Ocean Relief, Temperature , Salinity- distribution and determinants Currents – Oceanic circulation and its impact	**11**
IV	**Ocean Motions** Waves & Tides, Marine Deposits, Coral Reef, Theories Ocean resources- minerals food, Power Etc.	**11**
Keywords	***Composition, structure of atmosphere, Monsoon, Temperature , Salinity of Ocean, Store food house for future***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Lal, D.S. :Climatology, Chaitanaya Publications, Allahabad, 1986.
2. Critchfiedid, J.H. :General Climatology, Prentico Hall, India, New Delhi, 1993.
3. Das, P.K.:Monsoons 'National Book Trust, New Delhi, 1987.
4. Fein, J.S.and Slephens, P.N. :Monsons. Wiley lnterscience, 1987
5. Davis Rechard J.A.:"Oceanography-An Introduction to the Marine Environment". Wm. C. Brown Iowa, 1986.

Online Resources–

- ***https://www.imdpune.gov.in/training/training%20notes/Climatology-IMTC.pdf***
- ***https://www.bkbcollege.in/upload/dpt_book/1669712576.pdf***
- ***https://www.scribd.com/document/649484125/CLIMATOLOGY-BY-DS-LAL***

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.eshiksha.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 =20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10=40 Marks**	

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

PART- A: Introduction				
Program: Bachelor in ARTS *(Diploma / Degree / Honors)*			**Semester -III**	Session: **2024-2025**
1	**Course Code**	**GOSE- 03 / PR**		
2	**Course Title**	**STUDY OF INDIAN WEATHER MAP**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Understand the difference between weather and climate. 2. Understand the elements of climate and Meteorological instruments 3. Understand the importance of Weather maps, the method of description through various seasons-summer, winter and rainy		
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	Difference between Weather and Climate and its elements, Importance of Weather Maps Indian Meteorological Observatories, Meteorological instruments, Representation o Weather elements on Map, Interpretation of Indian daily weather report – summer winter, rainy season.	**30**
Keywords	***Weather, Climate, Monsoon, NLM, Interpretation, Instruments.***	

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PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers, Meerut.
2. Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
3. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
4. Singh, L R & Singh R (1977): Manchitra or Pryaogatamek Bhugol , Central Book, Depot, Allahabad 1.
5. Singh R L and Duttta P K (2012) Prayogatama Bhugol, Central Book Depot, Allahabad
6. Prof. R.N.Mishra & P.K.Sharma (2023) Practical Geography ,Pareek Publication Jaipur

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&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** 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** **. Performed the Task based on lab. work - 20 Marks** **. Spotting based on tools & technology (written) – 10 Marks** **. Viva-voce (based on principle/technology) - 05 Marks**	**Managed by Course teacher as per lab. status**

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

PART- A: Introduction

Program: Bachelor in Arts *(Diploma / Degree/Honors)*	**Semester - IV**	Session: **2024-2025**

1	**Course Code**	**GOSE - 02**	
2	**Course Title**	**SOIL & BIOGEOGRAPHY**	
3	**Course Type**	**THEORY**	
4	**Pre-requisite (if, any)**	***As per Programme***	
5	**Course Learning. Outcomes (CLO)**	**At the end of the semester student has ability to** 1. Acquaint with the nature and basics of Biogeography 2. Describe the major factors and processes governing the soil formation. 3. To analyze the different issues regarding soil degradation and soil conservation. 4. Explain the major principles and processes that govern the local and global distribution of plants & anima 5. Critically assess theoretical and conceptual issues relating to biodiversity and forest conservation efforts in India.	
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	**Nature of Biogeography :** Definition, scope of Biogeography, Approaches of Biography, relation with other branches of science, Relevance of the study of Biogeography, Development of Biogeography	**12**
II	**Soil formation& conservation :** Soil Formation: Factors and Processes; Soil Properties (Physical and Chemical); Soil Nutrients and Organisms; Soil Profile. Soil Taxonomy: Classification by USDA and FAO; Soil Degradation: Causes and Consequences; Soil Conservation	**11**
III	**Plant & animal community :** Plant Community: Meaning and Concepts; Evolution and Classification of Plants; Plant Response to Environment: Adaptation, Succession, and Climax; Dispersal and Distribution of Plants. Phyto-geographical regions; Consequences of deforestation . Theory of evolution of species(DARVIN) and its critics. Factor influencing the Distribution, Dispersal and migration of animals; means and barriers; Zoo- geographical regions of the world. Wild life management; Relevance of sanctuaries with special reference to India	**11**
IV	**Biodiversity ;** Concept, Types and Importance; Biodiversity Conservation; Biomes with Special Reference to Tropical Rain Forests, Tropical Monsoon Deciduous Forest, Tropical and Temperate Grass Lands. . National Forest Policy of India, Conservation of Biotic Resources. , Social forestry and Participatory Management of Forest in India.	**11**

Signature of Convener Members :

Dr, Satish Dubey (convenor) Dr. Kaveri Dabhadker (Member)

Dr, Sheela Shreedhar(Member) Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Cox, C.B. and Moore, P.D. (1993): Biogeography: An Ecological and Evolutionary Approach, 5th Edition, Blackwell, Oxford.
2. Darlington, P. J. (1957): Zoogeography: The Geographical Distribution of Animals, Wiley, New York.
3. Haggett, R.J., (1998): Fundamentals of Biogeography, Routledge, London
4. Mathur, M.S. (1988): Essentials of Biogeography, Jaipur
5. Singh , Savindra (2020), Biogeography, Pravalika Publication , Allahabad
6. Singh, R.B. (2009): (Eds.) Biogeography and Biodiversity. Rawat Publication, New Delhi.

Online Resources–

- https://www.rawatbooks.com/environment/biogeography-
- https://www.routledge.com/Fundamentals-of-Biogeography/Huggett/p/book/ 9780415323475
- https://study.com/academy/lesson/biogeography-definitions-examples.html

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.eshiksha.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** =**20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10**=**40 Marks**	

Signature of Convener Members :

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts *(Diploma / Degree / Honors)*			**Semester - IV**	Session: **2024-2025**
1	**Course Code**	**GOSE – 02 / PR**		
2	**Course Title**	**GEOLOGICAL MAPS**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**At the end of the semester student has ability to** 1. To provide the knowledge of geological structure of the earth 2. To Understand the Geological periods 3. To acquainted knowledge of rocks and their pattern		
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	Geological Maps- definition, types, importance Geological time, Rocks, basic concepts: dip, strike line, width& thickness of bed Construction of strike line , completion of bed, Cross sectional analysis of conformable-Unconformable series Cross section analysis of fold & fault	**30**
Keywords	***Geological map, rocks. Strike line, cross section***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers, Meerut.
2. Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
3. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
4. Singh, L R & Singh R (1977): Manchitra or Pryaogatamek Bhugol , Central Book, Depot, Allahabad 1.
5. Singh R L and Duttta P K (2012) Prayogatama Bhugol, Central Book Depot, Allahabad
6. Prof. R.N.Mishra & P.K.Sharma (2023) Practical Geography ,Pareek Publication Jaipur

Online Resources–

1. **Map Work and Practical Geography** https://books.google.co.in/books
2. ***Practical*** Geography, S.B.P.D Publicationshttps://uou.ac.in/sites/default/files/slm/DGIS-504.pdf
3. https://ncert.nic.in/ncerts/l/legy303.pdf
4. https://www.uou.ac.in/sites/default/files/slm/GE-203.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 :

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

PART-A: Introduction

Program: Bachelor in Arts *(Degree / Honors)*	**Semester - V**	Session: **2024-2025**

1	**Course Code**	**GOSE - 03**	
2	**Course Title**	**DISASTER MANAGEMENT**	
3	**Course Type**	**THEORY**	
4	**Pre-requisite(if, any)**	***As per Programme***	
5	**Course Learning. Outcomes(CLO)**	**At the end of the semester student has ability to** 1. Understand the need and significance of studying disaster management 2. Understand the different types of disasters and causes for disasters. 3. Gain knowledge on the impacts Disasters on environment and society 4. Study and assess vulnerability of a geographical area. 5. Students will be equipped with various methods of risk reduction measures and risk mitigation. 6. Understand the role of Information Technology in Disaster Management	
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	**Concept of Hazards & Disasters,** Vulnerability and risk. Natural and man made hazards, Types of hazards, Concept of disaster management	10
II	**Disaster management cycle**- Pre disaster management, During disaster management, Post Disaster review and management, Prevention, mitigation, preparedness, Adaptation.	12
III	**Detail study of nature and characteristics of hazards**:- Flood, Cyclone, Drought, Earthquake. Man -made hazards – Industrial , Fire and Ground water depletion , Virus epidemic Disasters,	12
IV	**Indigenous community based disaster preparedness**. Role of NDMA, NIDM, NDRF, Disaster working system. Role of NGOs and Dos & not Dos in disaster management.	11
Keywords	***Hazards ,Vulnerability, Prevention, mitigation, Cyclone***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Larry R. Collins-Disaster Management and Preparedness, Rutledge and Taylor & Francis Group
2. JACK RABIN ,Disaster Management Handbook, Taylor & Francis,2008
3. W. Nick Carter, Disaster Management -A Disaster Manager's Hand book , Asian Development Bank
4. Shrivastava, A K. , A Text book of Disaster Management, Scientific Publishers Jodhpur , Rajasthan
5. Singh Savindra(2014) Apda Prabandhan, Pravalika Publication, Prayagraj.
6. Husain Mazid(2018) Paryavaran avam Paristhaitiki, GK Publication, New Delhi.
7. Sinha, A.K(2023) .Disaster Management, (Hindi)Ganga Prakashan Pyagraj
8. Pathak G.K (2021) Apda Prabandhan, (In Hindi)Rajesh Publication New Delhi.
9. Garg H.S.- Disaster Management – (IN Hindi)SBPD Publications, 2018

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

- **E books-** Disaster Management and Information Technology
  https://link.springer.com/book/10.1007/978-3-031-20939-0
- https://www.academia.edu/33090026/DISASTER_MANAGEMENT P Krishna Sankar
- https://asdma.gov.in/pdf/publication/undp/disaster_management_in_india.pdf
  https://ncert.nic.in/textbook/pdf/khgy107.pdf

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.eshiksha.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.,**1out of 2** from each unit-**4x10=40Marks**	

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FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART-A: Introduction

Program: Bachelor in Arts *(Diploma / Degree / Honors)*	**Semester -III**	Session: **2024-2025**

1	**Course Code**	**GOSE – 03 / PR**		
2	**Course Title**	**STATISTICAL METHODS**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes(CLO)**	**After the completion of course, the students will have ability to:** 1. Learn the significance of statistics in geography. 2. Understand the importance of use of data in geography 3. Recognize the importance and application of Statistics in Geography 4. Interpret statistical data for a holistic 5. understanding of geographical phenomena. Know about different types of sampling. 6. Develop an idea about theoretical distribution. 7. Learn to use tabulation of data. Gain knowledge about association and correlation		
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/performancePeriods:30 Periods (30 Hours)

Module	**Topics (Course contents)**	**No. of Period**
Lab./Field Training/ Experiment Contents of Course	Use of Data in Geography: Significance of Statistical Methods in Geography; Sources of Data, Scales of Measurement (Nominal, Ordinal, Interval and Ratio.) Tabulation and Descriptive Statistics: Central Tendency - Mean, Median and Mode, Dispersion : Standard Deviation, Variance and Coefficient of Variation Sampling: Methods of sampling Purposive, Random, Systematic and Stratified. Correlation: Rank Correlation, Product Moment Correlation.	**30**
Keywords	***Use and Sources of Data, Scales of Measurement, Central Tendency, Dispersion, Correlation.***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Ajai,S.G.andSanjaya,S.G.(2009)*StatisticalMethodsforPracticeandResearch* ,Sage Publications, NewDelhi.
2. Mahmood,A.,1977: *Statistical Methodsin Geographical Studies,* Concept.
3. Rogerson, P. A., (2001)*Statistical Methods for Geography*, Sage Publications, New Delhi.
4. Sarkar,A.(2013):*Quantitativegeography:techniquesandpresentations.*OrientBlack Swan Private Ltd., New Delhi
5. Shinha,Indira.,(2007):*Sankhyiki bhugol(Hindi).*Discovery Publishing House, New Delhi.
6. Elhance D N Practical Problems in Statistics , Kitab Mahal Allahabad
7. शर्माररे्◌शचंद्रएवंजैनआरके ,समंख्यिकीके ससद्धांतरमजीवप्रकमशनरे्◌रठ
8. शुक्लएवंसहमयसमंख्यिकीके र्◌ूलससद्धांत

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&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):	**35Marks**

Continuous Internal Assessment(C IA): **(By Course Teacher)**	Internal Test / Quiz-(2): **10 &10** Assignment/Seminar +Attendance- **05** Total Marks -**15**	Better marks out of thetwo 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 :

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Dr. Anil Sinha (Member)

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

PART- A: Introduction				
Program: Bachelor in Arts *(Degree / Honors)*			**Semester VI**	Session: **2024-2025**
1	**Course Code**	**GOSE- 04**		
2	**Course Title**	**INDUSTRIAL GEOGRAPHY**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Know and learn different types of industry 2. Know and learn about sources of raw materials for industry 3. Know and learn about production problem 4. Know and learn information related to trade of manufactural good 5. Know and learn about spatial distribution of industry 6. Know and learn different types of industry		
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	**Nature and Scope of Industrial Geography**. Factors affecting the location of industry, Geographical characteristics and location of Industries (Weber' theory); Small and Medium Industries	**12**
II	**Heavy Industries:** Coal, Iron & Steel, Cotton textile, Location factors of Rural based industries, and Agro based Industries Footloose Industries	**11**
III	**Mega Industrial Complexes:** National Capital Region, Mumbai –Pune Industrial region, Chennai- Bangalore Industrial region and Chhota Nagpur Industrial region. Hugli region, Gujrat region.	**11**
IV	**Impact of Industrialization in India:** Environmental, Social- Economic. Industrial Policy of India.	**11**
Keywords	***Factors affecting the location Off Industry, Small and Medium & Heavy Industries, Industrial Complexes Impact of Industrialization in India:***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Critchfield, S.D.: Economic Geography of Asia, Allied Book Agency, Calcutta.1984.
2. Dreze, J and S. A.: India: Economic Development and social opportunity: Oxford university Press, New Delhi,1996.
3. मोहम्मद हारून ,आर्थिक भूगोल कमूलतत्व वसुंधरा प्रकाशन गोरखपुर 2004
4. अलका गौतम , आर्थिक भूगोल कमूलतत्व शारदा पुस्तक भवन प्रयागराज 2022
5. बी,सी जाट आर्थिक भूगोल सार्हत्य भवन पब्लिके शन 2019
6. ए पी चौधरी एवुं अचिना चौधरी औद्योर्गक भूगोल प्रशांत पब्लिके शन

Online Resources–

- **https://euacademic.org/BookUpload/19.pdf**
- **https://archive.org/details/industrialgeogra0000rile**
- **https://www.slideshare.net/MohaiminulIslamBappy/industrial-geography-and-environment-197471986**

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.eshiksha.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 =20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10=40 Marks**	

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FOUR YEAR UNDERGRADUATE PROGRAM(2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART-A: Introduction				
Program: Bachelor in Arts *(Degree / Honors)*			**Semester -VI**	Session: **2024-2025**
1	**Course Code**	**GOSE – 4 / PR**		
2	**Course Title**	**AERIAL PHOTOGRAPH**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes(CLO)**	**After the completion of the course the students should be able to -** 1. Appreciate the strength and application of aerial photograph 2. Map the resources, their location and availability 3. Apply this knowledge for sustainable development		
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/performancePeriods:30 Periods (30 Hours)		
Module	**Topics (Course contents)**	**No. of Period**
Lab./Field Training/ Experiment Contents of Course	Aerial photograph: Definition, Development and Process; Sensors, Scanner, Platform and their types. Aerial Photography: Principles, Geometry of Aerial Photograph; EMR Interaction with Atmosphere and Earth Surface. Spectral Reflectance Curve Satellites and their types and ResolutionVisual Image Interpretation: Digital Image Processing and Classification, Data Analysis, Geo-Referencing; Editing and Output Map Generation.	**30**
Keywords	***Aerial Photograph: Principles, Geometry, Platform,Visual Image Interpretation.***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1- Anji Reddy, M. (2008): Textbook of Remote Sensing and Geographic Information System, B.S. Publication, Hydrabad

2- Chauniyal, D.D., (2010): Sudur Samvedan evam Bhogolik Suchana Pranali (Hindi), Sharda Pustak Bhawan, Allahabad.

3- ओझा महेश कु मार , फोटोग्राममम ति और सुदरू संवेदन मास्टर माईनड प्रटं ंग वर्लडड इंदौर

4- खत्री हरीश कु मार, सुदरू संवेदन िकनीक ,कै लाश पु स्त क सदन भोपाल

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&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** 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 :

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Dr, Sheela Shreedhar(Member) Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

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

PART-A: Introduction

Program: Bachelor in Arts *(Honors)*	**Semester - VII**	Session: **2024-2025**

1	**Course Code**	**GOSE - 5**	
2	**Course Title**	**RURAL SETTLEMENT GEOGRAPHY**	
3	**Course Type**	**THEORY**	
4	**Pre-requisite (if, any)**	***As per Programme***	
5	**Course Learning. Outcomes(CLO)**	**After the completion of the course the students should be able to -** 1- The students gain knowledge and acquire clear concept of rural settlement and understanding of origin and distribution of settlements. 2- Increase a greater understanding of man land relationship that is crucial for sustainable development 3- Students will be able to collaborate in conceptual knowledge of rural development policies and strategies in the research work undertaken. 4- Acquire the skill of identifying rural settlement types from tropical Street. 5- Students will gain knowledge about area based approach to rural development draught area programs	
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	**Bases, Evolution and Models**. Nature, scope, definition and significance of Rural Settlement Geography. Concepts and characteristics of rural settlements, **Evolution and growth of rural settlements and their causes**: Old and New. **Spatio-Temporal diffusion Model Of Rural settlement**:-Eric By lund (Sweden), J. C. Hudson (USA),	12
II	Distribution of rural settlements; Type of Rural Settlement. Spacing, and nature of dispersion; Morphological Classification of Rural Settlement- : India, USA, Europe, African countries.	10
III	**Rural Morphological Pattern and Dwellings**. Village- Farm Distance, Field Size pattern, Land Use Pattern, Socio- spatial structure. **Rural Dwelling and House Type**-Factors affecting rural Dwelling, Morphology of rural dwelling, **Classification of house type**-based on building materials, plans, and architectural style. Characteristics of Dwelling in Monsoon Asia and Arid zone.	12
IV	**Rural Planning-**. Contemporary Issue of Indian Villages. Approaches to rural Planning, Program of Rural Planning. Components of rural Planning, Strategy of rural Planning, Rural-service centers:- Nature, Hierarchy, Service area. Major indicators of transformation of Indian villages.	11
Keywords	***Diffusion ,Morphological, Dwellings, Service centers, Rural Planning***	

Signature of Convener Members :

Dr, Satish Dubey (convenor)

Dr. Kaveri Dabhadker (Member)

Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1- Ghosh, S. (1999): A Geography of Settlements. Orient Longman, Kolkata.
2- Singh, R.Y. (2005): Geography of Settlements.in Hindi Rawat Publications, Jaipur and New Delhi.
3- Singh, S.B. (1977): Rural Settlement Geography. U.B.B.P., Publications, Gorakhpur.
4- Tiwari, R. C. (2000): Settlement Geography; in Hindi. Prayag Pustak Bhawan Allahabad.
5- Bansal ,S. C.**(2005)** Rural Settlement Geography, in Hindi, Minaxi Publication, Meerut.
6- Maurya, S.D. (2011) Settlement Geography, Sharda Pustak Bhavan, Prayagraj.
7- Verma L.N. (1983) Settlement Geography , Rajasthan Hindi Granth Acedemy.
8- Singh, R.L. (eds.) (1973): Rural Settlements in Monsoon Asia, National Geographical Society of India, Varanasi
9- Singh, R. L. and Singh, Rana P. B. (eds.) (1978): Transformation of Rural Habitat in Indian
10- Perspective, National Geographical Society of India, Varanasi, Pub. 19.

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

- https://www.scribd.com/document/37102471/Settlement-Geography
- https://www.academia.edu/17771848/SETTLEMENT_GEOGRAPHY
- https://ia801509.us.archive.org/30/items/in.ernet.dli.2015.119504/2015.119504.Geography-Of-Settlements_text.pdf
- https://www.scribd.com/document/37102471/Settlement-Geography

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.eshiksha.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.,**1out of 2** from each unit-**4x10**=**40Marks**	

Signature of Convener Members :

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Dr. Anil Sinha (Member)

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

PART-A: Introduction				
Program: Bachelor in Arts *(Honors)*			**Semester -VII**	Session: **2024-2025**
1	**Course Code**	**GOSE 05 / PR**		
2	**Course Title**	**PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEM**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes(CLO)**	**After the completion of course, the students will have ability to:** 1. Interpret satellite imagery and understand the preparation of false color composites from them. 2. Training in the use Geographic Information System (GIS) software for contemporary mapping skills 3. Have knowledge of using GPS & DGPS for the accurate location 4. Apply the GIS science plat form for the monitoring and forecasting analysis		
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/performancePeriods:30 Periods (30 Hours)		
Module	**Topics (Course contents)**	**No. of Period**
Lab./Field Training/ Experiment Contents of Course	Evolution of GI Science, Institutions and GI data sharing, GIS: Definition and Components. Global Positioning System(GPS) –Principles and Uses GIS Data Structures:Types(spatialandNon-spatial),RasterandVectorDataStructure GIS Data Analysis: Input; Geo-Referencing; Editing, Query. Application of GIS: Land Use Mapping; Urban Sprawl Analysis; Forests Monitoring, Natural disasters	**30**
Keywords	***GIS: components ,data structure, data analysis ,application. GPS- Principle &use.***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Chauniyal,D.D.,(2010):*SudurSamvedanevamBhogolikSuchanaPranali*,Sharda Pustak Bhawan, Allahabad
2. Heywoods,I.,Cornelius,SandCarver,S.,(2006):*AnIntroductiontoGeographical Information system*, Prentice Hall
3. चौनियाल,देवीदत्त ,सुदू रसंवेदिएवंभौगोनलकसूचिाप्रणालीशारदापुस्तकभवि इलाहाबाद

Online Resources–

- https://www.slideshare.net/slideshow/principles-of-gis-unit-1/248303262
- https://www.studocu.com/in/document/university-of-calcutta/geography/principles-of-gis-and-its-data-structure/55965075
- https://gdmc.nl/oosterom/PoGISHyperlinked.pdf

PART-D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

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

Continuous Internal Assessment(C IA): **(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 :

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Dr, Sheela Shreedhar(Member) Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

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

PART- A: Introduction				
Program: Bachelor in Arts ***(Honors)***		**Semester - VII**	Session: **2024-2025**	
1	**Course Code**	**GOSE-6**		
2	**Course Title**	**URBAN GEOGRAPHY**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1- Understand the nature of Urban Geography 2- Understand the fundamentals and patterns of urbanization process 3- Understand & learn the functional classification of cities. 4- Understand the Rural Urban relationship 5- Understand contemporary problems of Delhi, Mumbai, Kolkata and Chennai		
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	**Definition and scope of urban geography.** Theories of Origin of Evolution and growth of urban settlement .the geographical setting of urban centers :- site situation and location	**12**
II	**Urban morphology and land use pattern :-** Burgess concentric zone theory , Hoyt sector model , Ulman and Harris multiple Nuclei model Urbanization in developed and developing nations	**11**
III	**Urbanization patterns** ;Umland, Rural – Urban fringe, satellite town, sub urbanization, out growth With special reference to India	**11**
IV	**Urban planning & issues:** problems of housing, slums, and civic amenities - Water and Transport, Pollution, and Crime Case studies of Delhi, Mumbai, Kolkata, and Chennai.	**11**
Keywords	***Evolution of City, Urbanization, Rural Urban relationship, Urban Planning***	

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Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1- Singh, R .L. : Banaras : A study in Urban Geography (Student Friends Allahabad).
2- R.L. Singh : Banglore :A Urban Survey.(National Geographical Soceity of India, B.H.U., Varanasi).
3- P.C. Malhotra : Survey of Bhopal City and Bairagarh (Asia Publishing Bombay).
4- Toylor G. : Ur9an Geography, (Muthuen and Co., London).
5- Abercrornbie : Town and Country- Planning (Oxford University, Press London)
6- Dikinson R.E. : The West European.City. (Routledge and Kegan Paul, London).
7- Shah, Manjoor Alam :Hyderabad and Secunderabad, Twin City Studies in Urban Geography (Allie Published, Delhi).

Online Resources–

- https://geografia.posgrado.unam.mx/wp-content/uploads/2024/02/Michael-Pacione-Urban-Geography_-A-Global-Perspective-Pacione-2E-PB1.pdf
- https://www.eolss.net/sample-chapters/C01/E6-14-03-06.pdf
- **http://ndl.ethernet.edu.et/bitstream/123456789/44921/1/163.pdf**

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.eshiksha.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:	**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) : **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 =20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10=40 Marks**	

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Dr. Anil Sinha (Member)

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

PART-A: Introduction

Program: Bachelor in Arts *(Honors)*	**Semester - VII**	Session: **2024-2025**

1	**Course Code**	**GOSE -7**	
2	**Course Title**	**POLITICAL GEOGRAPHY**	
3	**Course Type**	**THEORY**	
4	**Pre-requisite (if, any)**	***As per Programme***	
5	**Course Learning. Outcomes(CLO)**	**After the completion of course, the students will have ability to:** 1. Understand the meaning & scope of Political Geography. 2. Understand the historical development of Political Geography. 3. Understand the concept of nation and state. 4. Understand the Frontiers & Boundaries, Capital & Core Area 5. Understand the different dimensions of electoral geography and resource conflicts	
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	**Elements of Political Geography:** Meaning & Scope, Political Geography & Huma Geography, Political Geography & Geo- Politics, Political Geography and its relation wit other social sciences. Political Geography & its Application. Theory of Heart land & Rim land	**12**
II	**Physical elements in Political Geography-**Location, size, shape, climate, relief, Seas & Ocean, Economic elements- Food ,Power ,Mineral resources, Manufacturing, Means of transport. Cultural elements- Population-distribution density, growth, migration, urbanization, problem of over and less population, population and food problem, Language, Religion	**11**
III	**Nation and State:** Evolution, Elements & Classification, Unitary and Federal state Frontiers and boundaries, capital and core areas with special reference to India. Electoral Geography – Geography of Voting, Geographic influences on voting pattern, Geography of representation, Garry mandering	**11**
IV	**Political Geography of resource conflict:** Unrest in South West Asia, Russia Vs NATO, Geo politics of Indian Ocean, South China Sea	**11**
Keywords	***Heart land, Rim land, Elements, Nation and State, Election, Resource Conflict***	

Signature of Convener Members :

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Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Adhikari, S. (2007): *Political Geography*, Rawat Publication, NewDelhi.
2. Adhikari, S. (2013): *Political Geography of India* –Sharda PustakBhawan, Allahabad.
3. Agnew, J., (2002): Making Political Geography, Arnold.
4. Agnew, J., Mitchell K. and Total G., (2003): A Companion to Political Geography, Blackwell.
5. Cox, K. R., Low M.and Robinson J., (2008):The Sage Handbook of Political Geography, Sage Publications.

Online Resources–

- http://ndl.ethernet.edu.et/bitstream/123456789/2193/1/39.pdf.pdf
- https://www.berghahnbooks.com/downloads/OpenAccess/MishkovaEuropean/MishkovaEuropean_12.pdf
- https://www.eolss.net/sample-chapters/C01/E6-14-03-08.pdf
- https://link.springer.com/book/10.1007/978-1-349-86076-0

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.eshiksha.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:	**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): **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 :

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Dr. Anil Sinha (Member)

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts ***(Honors)***			**Semester - VII**	Session: **2024-2025**
1	**Course Code**	**GOSE – 07 / PR**		
2	**Course Title**	**COMPUTER CARTOGRAPHY**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**At the end of this course, the students will be able to :** ➢ Learn the computer hardware , software & its uses . ➢ Understand the use of computer in mapping ➢ Represent the geographical data using MS-EXEL -graphs		
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	I. Computer cartography: meaning, concepts, theories, methods and tools of computer cartography II. Computer: Input units, Output units, Storage, Operating system, software for Mapping & diagrammatic representation of geographic data III. Making of graphs- Pie graph, Bar graph, line graph with MS EXCEL IV. Mapping with computer .	**30**
Keywords	***Cartography, computer, mapping***	

Signature of Convener Members :

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Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Gupta K. K. and Tyagi V. C., 1992: Working with Maps, Survey of India, DST, New Delhi.
2. Mishra R.P and Ramesh A. 2000: Fundamentals of Cartography. Concept Publ. Com., New Delhi,
3. Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers, Meerut.
4. Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
5. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
6. Prof. R.N.Mishra & P.K.Sharma (2023) Practical Geography ,Pareek Publication Jaipur

Online Resources–

1. **Map Work and Practical Geography** https://books.google.co.in/books
2. ***Practical*** Geography, S.B.P.D Publicationshttps://uou.ac.in/sites/default/files/slm/DGIS-504.pdf
3. https://ncert.nic.in/ncerts/l/legy303.pdf
4. https://www.uou.ac.in/sites/default/files/slm/GE-203.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 :

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

PART-A: Introduction

Program: Bachelor in Arts *(Honors)*	**Semester - VII**	Session: **2024-2025**

1	**Course Code**	**GOSE – 8**		
2	**Course Title**	**SUSTAINABLE DEVELOPMENT**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes(CLO)**	**At the end of this course, the students will be able to :** 1. Students will be able to define sustainability and identify major sustainability challenges. 2. Understand the basic concept of Sustainable Development (SD), the environmental, social and economic dimensions. 3. Understand the embedment of sustainability issues in environmental, societal, and economic systems, and the relevance of the conditions, interrelations, and dynamics of these systems. 4. Students will be able to apply concepts of sustainable development to address sustainability challenges in a global context. 5. Students will have an understanding of their social responsibility as future professionals and citizens.		
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	**Sustainable Development**: Definition, Components, Concept, Limitations and Historical Background. of Sustainable Development, Indicators of Sustainability. Dimensions to Sustainable Development - society, environment and economy.	12
II	**Ecology and Biodiversity**- Biotic and abiotic elements and their sustainable use, Ecology and Sustainability: Terms and Thoughts- Food chains, , Energy flow in ecosystem, Bio-geographical Regions of the world.	10
III	**Environmental Degradation**-Global warming, Climate Change ,Soil Conservation, Deforestation, Water Security, Consequence of Climate Change in India,	12
IV	**Sustainable Development Policies and Programmes**: The proposal for SDGs at **Rio- summit**, Goal-Based Development; Principles of Good Governance; National Environmental Policy. Sustainable Agriculture, Sustainable Energy Development, Environmental : Perception, Ethics, and Quality with Special reference to India. .	11
Keywords	***Diffusion ,Morphological, Dwellings, Service centers, Rural Planning***	

Signature of Convener Members :

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Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1- Husain, Mazid,2018, Pryavaran avam Paristhitiki,GK Publication New Delhi 2-
Saxena, H.M. 2020,Environmental Geography,Rawat Publication,Jaipur

3 Singh Savindra,2022, Paryavaran Bhugol ka Swaroop, Pravalika Publication, Allahabad

4- Saxena H.M. 2014. पर्यावरण प्रदूषण एवं संधृत ववकयस-(Hindi)Rajasthan Hindi Granth Academy.

5- Singh, R.B. (Eds.) (2001) Urban Sustainability in the Context of Global Change, Science Pub., Inc., Enfield (NH), USA and Oxford & IBH Pub., New Delhi.

6- Sawhney ,A. 2004, The New Face of Environmental Management in India, Ashagate Aldershot

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

E books-

- https://www.igu-cge.org/wp-
- content/uploads/2018/02/Luzern_Gesamtdokument_Band_42_101007.pdf
- https://dspmuranchi.ac.in/pdf/Blog/SustainableDevelopmen.pdf
- https://www.iisd.org/system/files/publications/sourcebook_on_sd_0.pdf

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.eshiksha.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.,**1out of 2** from each unit-**4x10=40Marks**	

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Dr. Anil Sinha (Member)

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

PART- A: Introduction				
Program: Bachelor in ARTS ***(Honors)***			**Semester -VII**	Session: **2024-2025**
1	**Course Code**	**GOSE – 08 / PR**		
2	**Course Title**	**DUMPY LEVEL SURVEYING**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**At the end of this course, the students will be able to :** 1. Understand the surveying and Levelling. 2. Understand the methods of levelling. 3. Understand how to construct longitudinal profile.		
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	Instruments required for levelling, staff reading, Methods of levelling- Simple Differential, Various way of checking the field book through Calculation, Plotting o Longitudinal Profile	**30**
Keywords	***Levelling, Staff reading, Longitudinal Profile, Bench Mark, Reduced Level***	

Signature of Convener Members :

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Dr. Kaveri Dabhadker (Member)

Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers, Meerut.
2. Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
3. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
4. Singh, L R & Singh R (1977): Manchitra or Pryaogatamek Bhugol , Central Book, Depot, Allahabad 1.
5. Singh R L and Duttta P K (2012) Prayogatama Bhugol, Central Book Depot, Allahabad
6. Prof. R.N.Mishra & P.K.Sharma (2023) Practical Geography ,Pareek Publication Jaipur

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&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** 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 :

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Dr, Sheela Shreedhar(Member) Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts ***(Honors)***			**Semester - VIII**	Session: **2024-2025**
1	**Course Code**	**GOSE - 09**		
2	**Course Title**	**RURAL DEVELOPMENT IN INDIA**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**At the end of the semester student has ability to** 1. Student may have ability to understand the meaning & approaches of rural development 2. Learn the various issues of rural development student can evaluate the possibilities of employment in rural sectors of the country 3. Assess the various policies of rural development and its consequences in Indian perspective 4. Understand the perspective of rural development tin Chhattisgarh		
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 and approaches of rural development :** Concept of Rural Development , Definition and meaning of rural development , Natur and Scope of Rural Development in India ,Approaches to Rural Development in India Gandhian Approach , Decentralized Planning Approach, Sectoral Approach Participatory Approach	**12**
II	**Rural Problems :** Basic amenities, safe drinking water, health care, education , social issues.	**11**
III	**Sources of Rural Employment** : Self Help Group- Concept, Characteristics and Functions. Swarnajayanti Gram Swarojgar Yojana (SGSY)- Salient features MANREGA Nature and Scope , Agro Based Industries, EMPLOYMENT GENERATION, Rural Tourism – Concept, Nature, Scope, Importance and Limitations	**11**
IV	**Policies of rural development in India/C.G.:** Policies for agriculture development, Swachha Bharat, P.M. Awas yojna, national health mission, social up liftmen, Rural development in Chhattisgarh	**11**
Keywords	***Chhattisgarh, Rural Area, Agriculture***	

Signature of Convener Members :

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Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Singh, R.B. (1985): Geography of Rural Development. New Delhi, India: Co.
2. Satya Sundaram , Rural Development Himalaya publication House Mumbai
3. R. D. Sudharam : Indian economy Chand and co. Ramnagar New Delhi.
4. Dr. B.S.Nagi. :Commercial Geography KedarnathRamnath publications Meerut,
5. Katar Singh -Rural Development –Principles, Policies and Managemen.
6. Misra R. P. and Sundaram, K. V. (eds.), 1979: Rural Area Development: Perspectivest.

Online Resources–

- https://www.india.gov.in/download-e-book-ministry-rural-development
- https://kingcenter.stanford.edu/sites/g/files/sbiybj16611/files/media/file/187wp_0.pdf
- http://www.gwcollegenagbhid.ac.in/uploaded_files/B.Com%20Sem%20VI%20Indian%20Eco.%20Rural%20Devlopment.pdf

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.eshiksha.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 =20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10=40 Marks**	

Signature of Convener Members :

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Dr, Sheela Shreedhar(Member) Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts ***(Honors)***			**Semester -VII**	Session: **2024-2025**
1	**Course Code**	**GOSE 07 / PR**		
2	**Course Title**	**CARTOGRAPHICAL ANALYSIS OF GEOGRAPHICAL PATTERNS AND SYSTEM**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Understand the types of data measurement. 2. Comprehend the representation and interpretation of the results. 3. Put into practice results obtained in representation as well as day-to-day life.		
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	Simple linear Regression, Probability, Sampling, normal distribution curve, Lorenz Curve, **Tests of significance statistical & Confidence level** – Chi square test, t-test, f-tes **Test for distribution in space - Mean center** Nearest Neighbor Analysis, Z-score, Gravit model Rank size rules, Crop combination region.	**30**
Keywords	***Regression, Probability, Sampling, Tests of significance statistical , Test for distribution in space***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Ajai, S. G. and Sanjaya, S.G. (2009) *Statistical Methods for Practice and Research,* Sage Publications, New Delhi.
2. Mahmood, A., 1977: *Statistical Methods in Geographical Studies*, Concept.
3. Rogerson, P. A., (2001) *Statistical Methods for Geography*, Sage Publications, New Delhi.
4. Sarkar, A. (2013): *Quantitative geography: techniques and presentations*. Orient Black Swan Private Ltd., New Delhi
5. Shinha, Indira., (2007):*Sankhyiki bhugol(Hindi)*. Discovery Publishing House, New Delhi.
6. Elhance D N Practical Problems in Statistics , Kitab Mahal Allahabad
7. शर्मा र्◌ेशचंद्र एवं जैन आर के ,सांख्यिकी के ख्सद्धांत रमजीव प्रकमशन र्◌ेरठ
8. शुक्ल एवं सहाय सांख्यिकी कमूल ससद्◌ाांत sahitya bhavan aagra,

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&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** 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**

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Dr, Sheela Shreedhar(Member) — Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction

Program: Bachelor in Arts *(Honors)*	**Semester - VIII**	Session: **2024-2025**

1	**Course Code**	**GOSE - 10**		
2	**Course Title**	**GEOGRAPHY OF TOURISM**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Understand of the definition, nature, and scope of tourism. 2. Recognize and articulate the economic, social, and cultural importance of tourism 3. Analyze the impact of physical determinants such as relief, climate, forests, and water bodies on tourism development and experiences. 4. Identify and evaluate the influence of religious, historical, and cultural factors on tourist attractions and destination choices 5. Evaluate the importance of infrastructure in development of tourism. Have sound knowledge on geographical, environmental and socio-cultural aspects of tourism in India.		
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	**Definition and Nature** i. Definition of Tourists and Tourism ii. Nature of Tourism iii. Importance, Scope of Tourism , Tourism as Industry, Geography in Tourism	**12**
II	**Factors affecting the Tourism** Development a) Physical i. Relief ii. Climate iii. Forest b) Socio-Cultural i. Religious ii. Historical c) Political --i) Policies ii) Safety of Tourists iii) Accessibility	**11**
III	**Classification of tourism** based on i. Nationality ii. Travel Time iii. Purpose - I i. Agro-Tourism ii. Eco- Tourism iii. Wildlife Tourism - iv Health/medical Tourism v Sports Tourism, vi Religious Tourism, vii Adventure Tourism, Cultural Tourism	**11**
IV	**Basic Infrastructure in Tourism.** Mode of Transportation i) Road ii) Rail iii) Water iv)Air Communication i.. Internet/Telephone/Mobile/TV iii. Electronic and Printing Media, Travel and Tourism Agencies Globalization and Tourism,	**11**
Keywords	***Chhattisgarh, Tourism, Infrastructure***	

Signature of Convener Members :

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Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Robinson H. (1996) Geography of Tourism:
2. Bhatia A.K.,Tourism Development, Principles and Practices: Sterling Publisher Ltd., New Delhi
3. Douglas Pearce (1987Tourism Today: A Geographical Analysis:)
4. Mathiseson A. and Wall C,. Tourism: Economic Physical and Social Impact: Logman, U.K
5. Rana Pratap (2003) Geography of Tourism:
6. Gupta V.K Tourism in India:.
7. Kaul R. N., Dynamics of Tourism: Sterling Publisher Ltd.

Online Resources–

https://www.amazon.in/Geography-Tourism-Set-2-Vols/dp/8178800527
https://perpus.univpancasila.ac.id/repository/EBUPT180170.pdf
https://www.researchgate.net/publication/371227271_Introduction_to_Geography_of_Tourism

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.eshiksha.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** =**20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10**=**40 Marks**	

Signature of Convener Members :

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts ***(Honors)***			**Semester - VIII**	Session: **2024-2025**
1	**Course Code**	**GOSE – 10 / PR**		
2	**Course Title**	**FIELD WORK - TOUR & TOUR REPORT**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**At the end of this course, the students will be able to :** 1. To understand the geography in real world 2. To describe the analytical view on places visited 3. To understand the various geographical features of the earth surface . 4. Recognize and articulate the economic, social, and cultural importance of tourism		
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	Excursion Tour /Field survey - coastal, Mountain, Plateau and Natural regions of India & Chhattisgarh, Nearby places of your location Report writing (travel expenses bear by the institute as per their resources.)	**30**
Keywords	***Excurssion, Report Writing***	

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PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Sharma J. P., 2010: Prayogic Bhugol, Rastogi Publishers, Meerut.
2. Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publishers.
3. Slocum T. A., Mcmaster R. B. and Kessler F. C., 2008: Thematic Cartography and Geovisualization (3rd Edition), Prentice Hall.
4. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
5. Singh, L R & Singh R (1977): Manchitra or Pryaogatamek Bhugol , Central Book, Depot, Allahabad 1.
6. Singh R L and Duttta P K (2012) Prayogatama Bhugol, Central Book Depot, Allahabad

Prof. R.N.Mishra & P.K.Sharma (2023) Practical Geography ,Pareek Publication Jaipur

Online Resources–

1. **Map Work and Practical Geography** **https://books.google.co.in/books**
2. ***Practical*** Geography, S.B.P.D Publicationshttps://uou.ac.in/sites/default/files/slm/DGIS-504.pdf
3. https://ncert.nic.in/ncerts/l/legy303.pdf
4. https://www.uou.ac.in/sites/default/files/slm/GE-203.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**

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

PART-A: Introduction				
Program: Bachelor in Arts ***(Honors)***		**Semester - VIII**	Session: **2024-2025**	
1	**Course Code**	**GOSE – 11**		
2	**Course Title**	**TRIBAL DEVELOPMENT IN INDIA**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes(CLO)**	**At the end of this course, the students will be able to :** 1- Students will learn about the situation of the tribal people in India and Chhattisgarh. 2- The students will learn about the concept of tribal society and the tribal situation in India. 3- Understand how and why both human culture and the natural environment are dynamic creations of their mutual interaction. 4- Students will able to analyze the problem of tribal people in India. 5- The student will also learn about the different dimensions of health and nutrition with special reference to tribe.		
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	**Tribes in Indian Civilizations**; Racial Base of Tribes, Tribal Society, Major tribes of India. Tribes and their regional distribution. Tribal Demography-Rural –Urban, Sex ratio, Population Growth	12
II	**Tribal Society**- Family, Marriage Language, Tribal Institution, Tradition, , Economic Structure of Tribal Population Special reference to Chhattisgarh, Forest- based economies, Agriculture, Traditional occupation.	10
III	**Tribal Development**: concept and approaches. **Tribal Problems and Remedial measures**- Illiteracy, Poverty, Indebtedness, Land alienation, Health , Tribal transformation in India, socio-economic and ecological development.	12
IV	Planning and welfare programmes for the tribes and their implementation, Regional Pattern of development, Policy for development of tribal areas in five years plans.	11
Keywords	***Diffusion ,Morphological, Dwellings, Service centers, Rural Planning***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1- Beteille A. 1996. Concept of tribes with special reference to India. In Society and politics in India: essays in a comparative perspective (pp 57-78). London: Athlone Press
2- Choudhury, B. 1982. Tribal Development in India. New Delhi: Inter-India Publication.
3- Ghurye, G.S. 1943. The aboriginals: so-called and their future. Poona: Gokhale Institute of Politics and Economics.
4- Govt. of India. 2014. Report of the high-level committee on socioeconomic, health and educational status of tribal communities of India. New Delhi: Ministry of Tribal Affairs Government of India May, 2014
5- Verma,Nivedita Tribal Culture: Study of Bastar Region) Hindi ,Ravat Publication, 2022 7- Katara,Panna Lal, **JANJATIYA BHUGOL** ,PARADISE PUBLISHERS,2018
6- बेहरा मगुनी चरण , भारत में जनजातीय अध्ययन: इततहास, पुरातत्व और संस्कृतत केपररप्रेक्ष्य ,रावत पब्लिके शन,2022
7- Maurya ,S.D. ,Human Geography , Sharda Pustak Bhavan,2009,
8- Tripathi Ramdeo, Population Geography, Vasundhara Prakashan, 2005
9- Tiwari D. N. , Van, Adiwasi avam Pryavaran , Shanti Prakashan Allahabad.1989
10- Tiwari ,S.K. and Shrikamal Sharma , Madhya Pradesh ki Janjatiyan- Samaj avam Vyavastha, MP Hindi Granth Academy, 1994

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

E books

- https://www.scert.cg.gov.in/pdf/mle/MLE-Book-5/8-Chhattisgarh
- https://ncert.nic.in/textbook/pdf/ghss105.pdf
- https://egyankosh.ac.in/bitstream/123456789/66433/1/Unit8.pdf
- https://govthomesciencecollegehbd.com/downloads/40569.pdf

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.eshiksha.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.,**1out of 2** from each unit-**4x10=40Marks**	

Signature of Convener Members :

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Dr. Anil Sinha (Member)

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

PART-A: Introduction

Program: Bachelor in Arts *(Honors)*	**Semester - VIII**	Session: **2024-2025**

1	**Course Code**	**GOSE – 11/ PR**		
2	**Course Title**	**PROJECT REPOT ON SOCIO- ECONOMIC SURVEY**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes(CLO)**	**At the end of this course, the students will be able to :** 1- Conduct field work in physical and human geography besides investigation into socio economic and environmental issues. 2- Develop tool to collect primary data from the field and interpret them meaningfully. 3- Make use of proper tools and serving method from measurement in context of collection and processing of data. 4- Prepare field report with suitable table map and diagrams based on the data collected from the field and secondary sources. 5- After Competing this course the students will be completely familiar with research.		
6	**Credit Value**	**1 Credits**	***Credit = 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 Teaching–learning Periods(01 Hr. per period) - 30 Periods (30 Hours)

Module	Topics (Course contents)	No. of Period
Lab./Field Training/ Experiment Contents of Course	Step-1 To Provide the students with information based research methodology for Socio-Economic survey and to prepare them for socio-economic survey of a Revenue Village. Step-2 Chapter and questionnaire will be provided by the department. Before presenting the socio-economic report of the village, the village map, secondary data related to the village, land use data, etc. will have to be compiled in a comprehensive manner. Steps-3 After Collection , Tabulation and Processing of Primary and secondary data of the selected Revenue Village, Steps-4 A Project Report of at least 40 pages will be presented for evaluation	**30**
Keywords		

Signature of Convener Members :

Dr, Satish Dubey (convenor)

Dr. Kaveri Dabhadker (Member)

Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1- Haroon, M. , Practical Geography, Mishra Trading Corporation, Varanasi,2010
2- Chauhan, P R. 2005, Practical Geography, Vasundhara Prakashan, Gorakhpur
3- Mishra R.N. ,P K Sharma, Prayogik Bhoogol Rawat Publication, Jaipur ,2019
4- Khullar , D.R., Prayogatmak Bhoogol, Kalyani Publishers, Ludhiyana.
5- Saha Pijushkanti & Dr. Partha Basu ADVANCED PRACTICAL GEOGRAPHY Books and Allied PVT Ltd. 2021

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

E books-

- **https://www.researchgate.net/publication/346487159_Re-Emphasising_'Geography**
- https://www.cicollege.ac.in/documents/P0808190447.pdf
- https://www.gokhalecollegekolkata.edu.in/SSR/criterion1/1_3_2-GEOA-GEOG-Field-Project.pdf
- https://ncert.nic.in/textbook/pdf/legy305.pdf
- https://www.cifor-icraf.org/publications/pdf_files/Books/BLiswanti1201.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**	

Signature of Convener Members :

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Dr, Sheela Shreedhar(Member) Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

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

PART-A: Introduction				
Program: Bachelor in Arts ***(Honors)***			**Semester - VII**	Session: **2024-2025**
1	**Course Code**	**GOSE–06/ PR**		
2	**Course Title**	**FUNDAMENTALS OF REMOTE SENSING**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per program***		
5	**Course Learning. Outcomes(CLO)**	**At the end of this course, the students will be able to :** 1- The student will be able to gain in-depth knowledge and use of remote sensing software. 2- Create, analyze and critically evaluate different technical/research solutions. 3- Develop the skill so as to use digital satellite data using software 4- Prepare the maps based with satellite data to compare with the ground realities. 5- Classify digital data for the land use/land cover and urban studies		
6	**Credit Value**	**1 Credits**	***Credit = 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 Teaching–learning Periods(01 Hr. per period) - 30 Periods (30 Hours)		
Module	**Topics (Course contents)**	**No. of Period**
Image Processing	Image Acquire from online portel (Google, Bhuvan, USGS), Geo Refrencing of Image Processing (Digital / Manual): Pre-processing (Radiometric and Geometric Correction); Enhancement (Filtering); Classification (Supervised and Un- supervised) Image Interpretation. . Application of Digital Remote Sensing: Land Use /Land Cover	**30**
Keywords	***Image Interpretation, land use /land cover***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Bhatta , B., (2008): *Remote Sensing and GIS*, Oxford University Press, New Delhi.
2. Campbell, J. B., (2007): *Introduction to Remote Sensing*, Guildford Press
3. Chauniyal, D., (2010): *SudurSamvedana Avam Bhaugolik Suchna Pranali*, Sharda Pustak Bhawan, Allahabad.
4. Hord R.M.,(1989): *Digital Image Processing of Remotely Sensed Data*, Academic, New York.
5. Jensen, J. R., (2005): *Introductory Digital Image Processing: A Remote Sensing Perspective*, Pearson Prentice-Hall.
6. Jensen, J. R.,(2007): *Remote Sensing of the Environment: An Earth Resource Perspective*, Prentice-Hall Inc, New Jersey.

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

E books-

1- https://mrcet.com/downloads/digital_notes/ECE/IV%20Year/DIGITAL%20IMAGE%20PROCESSING.pdf

2- https://pce- fet.com/common/library/books/17/5186_FundamentalsofDigitalImageProcessing-APracticalApproachwithExamplesinMatlab.pdf

PART-D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks:	**50 Marks**
Continuous Internal Assessment(CIA):	**15 Marks**
EndSemester Exam(ESE):	**35 Marks**

Continuous Internal Assessment(C IA): **(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**	

Signature of Convener Members :

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

PART- A: Introduction				
Program: Bachelor in Arts *(Honors)*			**Semester VIII**	Session: **2024-2025**
1	**Course Code**	**GOSE-12**		
2	**Course Title**	**AGRICULTURE AND FOOD SECURITY**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Conceptualize the agriculture and its determinants. 2. Get the overview of Indian and World agriculture regions and systems. 3. Have sound knowledge of agriculture revolutions and food security 4. Get information about agricultural policies 5. Learn methods of division of agricultural region		
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	**Defining the field:** Introduction, nature and scope of Agriculturel Geogrhphy; Land use/ land cover definition and classification. Determinants of Agriculture: Physical, Technological and Institutional.	**12**
II	**Agricultural Systems of the World :** Whittlesey's classification and Agricultural Land use model of Von Thunens modification and relevance	**11**
III	**Agricultural Regions of India:** Agricultural productivity Crop diversification Crop Combination Regions. Agroclimatic regions of India	**11**
IV	**Food Security:** Concept, approaches, pattern, Food, nutrition and health Rural development and government policies.	**11**
Keywords	***Determinants of Agriculture , Determinants of Agriculture , Agricultural Regions of India:***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

***Text Books Recommended* – Text**

1. Basu, D.N., and Guha, G.S., (1996): *Agro-Climatic Regional Planning in India*, Vol.I& II, Concept Publication, New Delhi.
2. Hussain, M. (1996):*Systematic Agricultural Geography*, Rawat Publications, Jaipur.
3. Mohammad, N., (1992): *New Dimension in Agriculture Geography*, Vol. I to VIII, Concept Pub., New Delhi.
4. Shafi, M., (2006): *Agricultural Geography*, Doring Kindersley India Pvt. Ltd., New Delhi
5. Singh, J., and Dhillon, S.S., (1984): *Agricultural Geography*, Tata McGraw Hill, New Delhi.
6. हुसैन माजिद ,कृ जि भूगोल,ृकजि भूगोल रावत पब्लिके शन
7. गौतम अलका , ृकजि भूगोल शारदा पुस्तक भवन इलाहाबाद
8. खत्री हरीश ुकमार , ृकजि भूगोल,कै लाश पुस्तक सदन भोपाल .

Online Resources–

- https://ncert.nic.in/textbook/pdf/hess403.pdf
- https://www.slideshare.net/slideshow/agriculturegeography160112142549pdf/252216564
- https://relay.rvce.edu.in/primo-explore/book-search/fetch.php/agricultural-geography-by-majid-husain.pdf

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.eshiksha.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 =20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10=40 Marks**	

Signature of Convener Members :

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Dr. Anil Sinha (Member)

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

PART-A: Introduction

Program: Bachelor in Arts *(Honors)*	**Semester - VIII**	Session: **2024-2025**

1	**Course Code**	**GOSE – 12**		
2	**Course Title**	**AGRICULTURE AND FOOD SECURITY**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes(CLO)**	**After the completion of course, the students will have ability to:** 1. The students will able to analyze the agriculture development and productivity and its impact on various sectors. 2. Have sound knowledge of agriculture Revolution and food security. 3. Explain the role of agriculture determinants towards the changing pattern. 4. A good understanding of inter-relationship between climate change, environment, food security and sustainability at global and regional (India) level. 5. To understand the concept of food security and issues in achieving it.		
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	**Determinants of agricultural land use** - Physical, economic, social, and technological. Land holding and land tenure systems, Land reforms, land use policy and planning.	11
II	**Selected agricultural concepts and their measurements**:-cropping pattern, crop concentration, intensity of cropping, degree of commercialization, efficiency and productivity, crop combination regions. **Agriculture in India**- Agricultural development in India, Regional pattern of productivity in India. Green Revolution - its impact and consequences ,White Revolution,	12
III	**Methods and strategies for improving crop yield under climate and environment stress**- bio-pesticides, GM crops; sustainable agriculture; traditional agriculture; organic agriculture; ;	10
IV	**Agricultural Policy in India. Contemporary Issues**:-, Food security concept; types of food insecurity; poverty, hunger and malnutrition, Drought and food security, environmental degradation, Food safety Nutritional security, balanced diet, hunger and human health;; impact on health of farmers. Policy, economic and social aspect , policy of food security; role of institutions (e.g., FAO, NABARD)	12
Keywords	***Land Tenure, land use, Bio-pesticides, Malnutrition, Green Revolution.***	

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Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. **Singh Jashbeer, SS Dhillan, Agricultural Geography, Tata McGraw, New Delhi**
2. M.Shafi,(2006) Agricultural Geography Dorling Kindersly (India)
3. Gregor, H.P. : Geography of Agriculture. Prentice Hall, New York, 1970.
4. Grigg, D.B. : The Agricultural Systems of the World. Cambridge University Press, New York 1974.
5. Hartshorn, T.N. and Alexander, J.W. : Economic Geography. Prentice Hall, New Delhi, 1988
6. Tiwari, R.C. and Others(2007)Agricultural Geography, in Hindi, Prayag Pustak Bhavan Allahabad
7. Kumar, Pramila and S.K. Sharma (2002)Agricultural Geography, in Hindi, M.P. Hindi Granth Acedemy Bhopal
8. Kumari, Sarita and Deenanath Thakur, Krishi Bhoogol, Rajesh Publication, New Delhi.,2018
9. Sinha, Anil Kumar, Agricultural Development in India, Asian Press Books Kolkata,2022

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

E books

- **http://moef.gov.in/wp-content/uploads/wssd/doc4/consul_book_ch4.pdf**
- https://www.researchgate.net/publication/323622213_Sustainable_Agriculture_and_Food_Security
- https://relay.rvce.edu.in/primo-explore/book-search/fetch.php/agricultural-geography-by-majid-husain.pdf

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.eshiksha.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.,**1out of 2** from each unit-**4x10=40Marks**	

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

PART-A: Introduction				
Program: Bachelor in Arts ***(Honors)***			**Semester - VIII**	Session: **2024-2025**
1	**Course Code**	**GOSE – 12/ PR**		
2	**Course Title**	**FIELD STUDY AND RESEARCH REPORT**		
3	**Course Type**	**PRACTICAL**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes(CLO)**	**After the completion of course, the students will have ability to:** 1. The student will be able to gain in-depth knowledge and use adequate methods in the field of study of micro area. 2. Create, analyze and critically evaluate different technical/research solutions. 3. Identify the issues that must be addressed within the framework of the specific dissertation in order to take into consideration. 4. Presentation of dissertation will develop research attitude. 5. Research dissertation identifies the socio-economic problems of an area. 6. Research dissertation increases the identification of regional problems.		
6	**Credit Value**	**1 Credits**	***Credit = 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 Teaching–learning Periods(01 Hr. per period) - 30 Periods (30 Hours)		
Module	**Topics (Course contents)**	**No. of Period**
Lab./Field Training/ Experiment Contents of Course	Steps-01- Introduction – Objective of Research Report. Literature Review /Hypothesis, / Methodology/ Field Survey. Steps-02- Classification and Tabulation of Data Steps-03- Results / Discussion/ Conclusion / Research Report Writing. Steps-04- Appendices / Bibliography/References	**30**
Keywords	***Research Report ,Methodology, Tabulation of Data, Bibliography***	

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Dr, Sheela Shreedhar(Member)

Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Patni manju, Research Methods, Star Publication Agra,
2. Narsimha Murty, K.L. Research in Geography,Ashish Publishing House New Delhi,1992
3. Lal Das, D.K. Social Research : Theory and Practice, Rawat Publication ,Jaipur,2017
   4-Rijwi, S.M. Statistical Geography(Hindi) Rajasthan Hindi Granth academy, 2019
4. Shrivastava, V.K., Statistical Methods of Geography, Vasundhara Prakashan Gorakhpur, 1991
5. Haroon, M. , Practical Geography, Mishra Trading Corporation, Varanasi,2010
6. Chauhan, P R. 2005, Practical Geography, Vasundhara Prakashan, Gorakhpur
7. Mishra R.N. ,P K Sharma, Prayogik Bhoogol Rawat Publication, Jaipur ,2019
8. Khullar , D.R., Prayogatmak Bhoogol, Kalyani Publishers, Ludhiyana.

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

E books-

1- https://gyansanchay.csjmu.ac.in/wp-content/uploads/2022/09/Socio-Economic-Survey-and- Report-Writing.pdf

2- https://www.scribd.com/document/639109628/S-4-FIELD-WORK-NOTES-GEOGRAPHY

3- https://www.ijfmr.com/papers/2022/6/1213.pdf

4- http://ndl.ethernet.edu.et/bitstream/123456789/18890/1/115.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**	

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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 - I**		Session: **2024-2025**
1	**Course Code**	**GOGE - 01**		
2	**Course Title**	**GEOGRAPHY OF CHHATTISGARH**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	After the completion of course, the students will have ability to: 1. The students will be Understand location , extent and physical features of of the chhattisgarh. 2. To explain and analyze the resource distribution utilization and development in the state 3. Describe and understand the demographic characteristics of Chhattisgarh 4. Able to explain the Industrial development and Planning process of all sectors of the Chhattisgarh. 5. Acquaint themselves with geographical knowledge of Chhattisgarh that will assist them in the preparation of competitive examinations.		
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	**Physical setting :** Location , administrative division, Physical structure, soil vegetation & drainag Climate and climate region ,	**12**
II	**Resource Use & Industrial development :** Resource and their utilization : Minerals, Water, Land , Industrial Development – Cement , Iron & Steel	**11**
III	**Population Structure**, Density literacy, occupation structure &caste structure Tribes-Gond,Kawar	**11**
IV	**Infrastructure& Govt. policies, planning :** Infrastructure Transport, Health care, education Major policies and planning of Chhattisgarh – Agriculture, P.D.S, Tribal development, forest, water resource management	**11**
Keywords	***Chhattisgarh, Resource & their utilization, infrastructure***	

Signature of Convener Members :

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Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Chhattisgarh Ka Bhoogol : Dr. V.K.Tiwari,Himalaya Publication ,Mumbai
2. Chhattisgarh Ka Bhoogol : Dr. Pramila Kumar , Madhyapradesh Hindi Granth Acadami ,Bhopal (M.P.)
3. Chhattisgarh Ka Bhoogol : Dr. L.N. Verma ,Chhattisgarh Hindi Granth Acadami, Raipur(C.G.)
4. Chhattisgarh Ka Bhoogol : Dr. S.R.Kamlesh
5. Chhattisgarh Ka Bhoogol : Dr. Kiran Gajpal

Online Resources–

- https://pscnotes.com/CGPCS--Module-6A-Chhattisgarh- Geography
- https://www.scribd.com/document/681506232/CG-Bhugol-LN-Verma
- https://www.allgk.in/chhattisgarh-geography-gk-book-pdf-download/
- https://testbook.com/chhattisgarh-gk/geography-of-chhattisgarh

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.eshiksha.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** =**20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10**=**40 Marks**	

Signature of Convener Members :

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Dr, Sheela Shreedhar(Member) Dr. Kalpana Ganodwale (Member)

Dr. Anil Sinha (Member)

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM

PART- A: Introduction				
Program: Bachelor in Arts *(Degree/Honors)*			**Semester - V**	Session: **2024-2025**
1	**Course Code**	**GOSC - 05**		
2	**Course Title**	**GEOGRAPHY OF CHHATTISGARH**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. The students will be Understand location , extent and physical features of of the chhattisgarh. 2. To explain and analyze the resource distribution utilization and development in the state 3. Describe and understand the demographic characteristics of Chhattisgarh 4. Able to explain the Industrial development and Planning process of all sectors of the Chhattisgarh. 5. Acquaint themselves with geographical knowledge of Chhattisgarh that will assist them in the preparation of competitive examinations.		
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	**Physical setting :** Location , administrative division, Physical structure, soil vegetation & drainag Climate and climate region ,	**12**
II	**Resource Use & Industrial development :** Resource and their utilization : Minerals, Water, Land , Industrial Development – Cement , Iron & Steel	**11**
III	**Population Structure :** Population Structure, Density literacy, occupation structure &caste structure Tribes- Gond,Kawar	**11**
IV	Infrastructure& Govt. policies, planning : Infrastructure Transport, Health care, education Major policies and planning of Chhattisgarh – Agriculture, P.D.S, Tribal development, forest, water resource managment	**11**
Keywords	***Chhattisgarh, Resource & their utilization, infrastructure***	

Signature of Convener Members :

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Dr. Anil Sinha (Member)

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

1. Chhattisgarh Ka Bhoogol : Dr. V.K.Tiwari,Himalaya Publication ,Mumbai
2. Chhattisgarh Ka Bhoogol : Dr. Pramila Kumar , Madhyapradesh Hindi Granth Acadami ,Bhopal (M.P.)
3. Chhattisgarh Ka Bhoogol : Dr. L.N. Verma ,Chhattisgarh Hindi Granth Acadami, Raipur(C.G.)
4. Chhattisgarh Ka Bhoogol : Dr. S.R.Kamlesh
5. Chhattisgarh Ka Bhoogol : Dr. Kiran Gajpal

Online Resources–

- https://pscnotes.com/CGPCS--Module-6A-Chhattisgarh- Geography
- https://www.scribd.com/document/681506232/CG-Bhugol-LN-Verma
- https://www.allgk.in/chhattisgarh-geography-gk-book-pdf-download/
- https://testbook.com/chhattisgarh-gk/geography-of-chhattisgarh

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.eshiksha.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 =20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10=40 Marks**	

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

PART- A: Introduction				
Program: Bachelor in ARTS *(Diploma / Degree / Honors)*			**Semester -III**	Session: **2024-2025**
1	**Course Code**	**GOGE-2**		
2	**Course Title**	**INDIAN GEOGRAPHY AND SOCIETY**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Understand the physical profile of the country 2. Study the resource endowment and its spatial distribution and utilization for sustainable development 3. Synthesize and develop the idea of regional dimensions. 4. The student will get information about the facts related to social development in India 5. Student will get information about the socio-economic aspects of tribal society in India.		
6	**Credit Value**	**2 Credits**	***Credit = 15 Hours - learning & Observation***	
7	**Total Marks**	**Max. Marks: 50**	**Min Passing Marks: 20**	

PART -B: Content of the Course		
Total No. of Teaching–learning Periods (01 Hr. per period) - 30 Periods (30 Hours)		
Unit	**Topics (Course contents)**	**No. of Period**
I	**Naming location and shape of India.** Multi-colored geographical form-Unity in Diversity Physiographic Divisions, Climate: - characteristics and classification; Soil and Natura vegetation.	**08**
II	**Population:** Distribution and Growth, Structure; Social: Distribution of Population by Religion, Tribes and their Correlates. Cultural Region of India	**07**
III	**Economic:** Mineral and Power Resources: Distribution and Utilization of Iron Ore, Coal, and Petroleum.	**08**
IV	**Agricultural** Production of Rice, Wheat, Cotton and Sugarcane; Spatial Patterns of Industrial Development.	**08**
Keywords	***Unity in Diversity, Physiography, Climate, Soil, Forest, Population, Minerals and Crops***	

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PART–C: Learning Resources

Text Books, Reference Books and Others

1. Deshpande, C. D., (1992): *India: A Regional Interpretation*, ICSSR, New Delhi.
2. Khullar, D.R. (2014): *India: A Comprehensive Geography*, Kalyani Publishers, New Delhi.
3. Majid Husain (2009): *Geography of India*, Tata McGraw hill Education Private Ltd, New Delhi.
4. Mandal, R. B. (ed.), (1990): *Patterns of Regional Geography–An International Perspective. Vol. 3 – Indian Perspective*
5. Pathak, C. R. (2003): *Spatial Structure and Processes of Development in India*. Regional Science Assoc., Kolkata

Reference Books-

1. Singh R. L., (1971): *India: A Regional Geography*, National Geographical Society of India.
2. Singh, Jagdish.,(2003): *India - A Comprehensive & Systematic Geography*, Gyanodaya Prakashan, Gorakhpur.
3. Douglas, L. Johnson.,(2009): World Regional Geography, Tenth edition, Pearson Education Inc, New Jersey.
4. Johnson, B. L. C., ed. (2001): *Geographical Dictionary of India*. Vision Books, New Delhi

Text Books Recommended -

Online Resources–

- https://www.iipa.org.in/upload/ind_geo.pdf
- https://elearning.uou.ac.in/pluginfile.php/1569/mod_resource/content/1/GE-102.pdf
- https://ncert.nic.in/textbook.php?kegy1=0-7

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.eshiksha.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:	**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):	**Two section – A & B** Section **A**: **Q1**. Objective – **05 x1= 05** Mark; **Q2**. Short answer type- **5x2 =10 Marks** Section **B**: Descriptive answer type qts.,**1out of 2** from each unit- **4x05 =20 Marks**	

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

PART- A: Introduction				
Program: Bachelor in ARTS *(Degree / Honors)*			**Semester - V**	Session: **2024-2025**
1	**Course Code**	**GOSEC**		
2	**Course Title**	**PRINCIPLE OF MAP MAKING**		
3	**Course Type**	**HANDS ON TRAINING**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. Understand to have sound knowledge regarding the classification and elements of maps. 2. Have proper utilization of maps for the development. 3. Appreciate the preparation of various thematic maps with the application of various techniques**.**		
6	**Credit Value**	**2 Credits (1C + 1C)**	***Credit = 15 Hours – Theoretical learning and = 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 Teaching–learning Periods: Theory – 15 Periods (15 Hrs) and Lab. or Field learning/Training 30 Periods (30 Hours)		
Module	**Topics (Course contents)**	**No. of Period**
Theory Contents	Maps – Classification and Types; Principles of Map Design, Diagrammatic Data Presentation – Line, Bar and Circle. Point, Line and Areal data and Maps	**15**
Lab./Field Training Contents	Thematic Mapping Techniques – Properties, Uses and Limitations; Areal Data -- Choropleth, Dot, Proportional Circles; Point Data – Isopleths- Map making with themes	**30**
Keywords	***Scale, Choropleth, Isopleth and Dot maps***	

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PART–C: Learning Resources

Text Books, Reference Books and Others

1. Singh L.R.- Elements of practical geography, central Book Depot,Allahabad.
2. Monkhouse, F.J.& H.R. Willinson :Maps and Diagrams Methuen,London.
3. Sarkar, A., (2015):*Practical geography: A systematic approach*. Orient Black Swan Private Ltd., New Delhi
4. Sharma, J. P., (2010): *Prayogic Bhugol (Hindi)*, Rastogi Publishers, Meerut. 9. Singh, R. L. and
5. Singh, Rana, P. B., (1999): *Elements of Practical Geography*, Kalyani Publishers.

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&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 Coordinator)	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 learned skill - 20 Marks** **B. Spotting based on tools (written) – 10 Marks** **C. Viva-voce (based on principle/technology) - 05 Marks**	**Managed by Coordinator as per skilling**

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

PART- A: Introduction				
Program: Bachelor in ARTS ***(Honors)***			**Semester -8**	Session: **2024-2025**
1	**Course Code**	**GOVAC**		
2	**Course Title**	**GEOGRAPHICAL KNOWLEDGE IN ANCIENT INDIA**		
3	**Course Type**	**THEORY**		
4	**Pre-requisite (if, any)**	***As per Programme***		
5	**Course Learning. Outcomes (CLO)**	**After the completion of course, the students will have ability to:** 1. After this study, it will help students to understand the historical development of geographical knowledge and science. 2. It will help in understanding the nature of development of knowledge and science in ancient India. 3. The understanding of the richness of geographical knowledge in ancient Indian literature will increase. 4. This study will make students feel cultural pride		
6	**Credit Value**	**2 Credits**	***Credit = 15 Hours - learning & Observation***	
7	**Total Marks**	**Max. Marks: 50**	**Min Passing Marks: 20**	

PART -B: Content of the Course		
Total No. of Teaching–learning Periods (01 Hr. per period) - 30 Periods (30 Hours)		
Unit	**Topics (Course contents)**	**No. of Period**
I	**Evolution of geographical knowledge in ancient India-** Indus valley age, Vaidik age, Epic age, Puranic age. Seven Dwipas of the earth in Puranas.	**08**
II	**Geographers in Ancient India-** Aryabhatta, VarahaMihir, Bhaskaracharya,Kautilya and Kalidas	**07**
III	**Main aspect of Geography in Ancient India** -Astronomical knowledge, Origin of Cosmos and Earth, Age of the earth, Latitude and Longitude, Day and Night, Phenomena's of seasons.	**08**
IV	**Different branches of Geography in Ancient India**---Physical Geography, Mathematical Geography ,Astronomical Geography, Climatology, Human Geography, Agriculture Geography, Industrial Geography, Political Geography, Urban Geography .	**08**
Keywords	***Geographical Knowledge, Astronomical Knowledge, Branches of Geography in Ancient India.***	

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PART–C: Learning Resources

Text Books, Reference Books and Others

1- ***Text Books Recommended*** **-**Ali . S.M. 1966, The Geography Of PURANAS , Pupil Publishing House New Delhi.
2- Dixit R.D.2004 , Geographical Thought: A contextual History of Ideas, Prentice Hallof India, New Delhi
3- Dubey, B, 1967, Geographical Concept in Ancient India, NGSI, BHU, Varanasi.
4- Jat, B.C. 2020, History of Geographical Thought.(Hindi) Malik Book Company Jaipur
5- Kaushik, S.D. and D.S. Rawat , 2023, Geographical Thought and methodology, Rastogi Publication, Meerut
6- Harun Mohammad, 2014, An Outline of Geographical Thought, Mishra Trading Corporation, Varanasi

Online Resources–

- .https://www.geoedu.lt/wp-content/uploads/2020/09/An-Introduction-to-Ideas-in-Human-Geography.pdf
- **https://www.uou.ac.in/sites/default/files/slm/GE-301.pdf**
- .https://books.google.co.in/books?id=2DdYDwAAQBAJ&printsec=frontcover&redir_esc=y#v=onepage&q&f=f alse

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

- www.ignou.ac.in
- www.egyankosh.ac.in
- www.iitm.ac.in
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- www.eshiksha.mp.gov.in
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