

- List of all papers in all six semesters.

Semester-wise Titles of the Papers in BA (Geography)

| Year | Sem. | Course Code | Paper Title | Theory/Practical | Credits |
|------|------|-------------|---|------------------|---------|
| 1 | I | A110101T | Physical Geography | Theory | 4 |
| 1 | I | A110102P | Elements of Map and Surveying | Practical | 2 |
| 1 | II | A110201T | Human Geography | Theory | 4 |
| 1 | II | A110202P | Thematic Mapping and Surveying | Practical | 2 |
| 2 | III | A110301T | Environment, Disaster Management and Climate Change | Theory | 4 |
| 2 | III | A110302P | Statistical Techniques and Surveying | Practical | 2 |
| 2 | IV | A110401T | Economic Geography | Theory | 4 |
| 2 | IV | A110402P | Weather Maps, Geological Maps and Surveying | Practical | 2 |
| 3 | V | A110501T | Regional Geography | Theory | 4 |
| 3 | V | A110502T | Basics of Remote Sensing and GIS | Theory | 4 |
| 3 | V | A110503R | Tour and Tour report | Practical | 2 |
| 3 | V | A110504R | Project Report-1 | Practical | 3 |
| 3 | VI | A110601T | Geography of India | Theory | 4 |
| 3 | VI | A110602T | Evolution of Geographical Thoughts | Theory | 4 |
| 3 | VI | A110603P | Remote Sensing and GIS | Practical | 2 |
| 3 | VI | A110604R | Project Report-2 | Practical | 3 |

**BA 1st Year, Sem. I ,
Course I
(Theory)**

| | | |
|---|--|------------------------|
| Programme/Class: Certificate/ BA | Year: First | Semester: First |
| Subject: Geography | | |
| Course Code: A110101T | Course Title: Physical Geography | |
| Course outcomes: Students will be able to understand <ul style="list-style-type: none">• The Earth geomorphic transition from beginning to present day.• Plate tectonics and related movements• Landforms carved by various agents of erosion• Earth's climate and that factors that influence it• Oceans system and biogeography of the world. | | |
| Credits: 4 | | Core Compulsory |
| Max. Marks: 25+75 | | Min. Passing Marks: 40 |
| Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w | | |
| Unit | Topics | No. of Lectures |
| I | Nature and Scope of Physical Geography, Origin of Universe, solar system and Earth. Geological Time Scale (with special reference to evidences from India), Interior of the Earth. | 8 |
| II | Origin of Continents and Oceans, Isostasy, Earthquakes and Volcanoes, Geosynclines, Continental Drift theory, Concept of Plate Tectonics. | 8 |
| III | Rocks, Folding, Faulting, Weathering, Erosion, Cycle of Erosion by Davis and Penck, Drainage Pattern. | 8 |
| IV | Fluvial, Karst, Aeolian, Glacial, and Coastal Landforms | 8 |
| V | Composition and Structure of atmosphere: Insolation, Atmospheric pressure and winds. | 8 |
| VI | Airmasses and Fronts, cyclones and anti-cyclones, Humidity, precipitation and rainfall types. | 7 |
| VII | Ocean Bottoms, composition of marine water-temperature and salinity. Circulation of Ocean water-Waves, Currents and Tides, Ocean deposits, Corals and atolls. | 7 |

| | | |
|---|---|---|
| VIII | Biosphere, Biotic succession, Biome, Zoo-geographical regions of the world. | 6 |
| Suggested Readings: <ol style="list-style-type: none"> 1. Haroon, M (2022)), Physical Geography (Hindi), Wisdom Publication, Varanasi 2. Singh, Savindra (2018), Physical Geography (Eng./Hindi) Allahabad, India: Prayag Pustak 3. Huggett, R.J. (2007): <i>Fundamentals of Geomorphology</i>. New York, U.S.A.: Routledge. 4. Khullar, D.R. (2012). <i>Physical Geography</i>. New Delhi, India: Kalyani Publishers. 5. Strahler, A. H. and Strahler, A N. (2001): <i>Modern Physical Geography</i> (4/E). New York, U.S.A.: John Wiley and Sons, Inc. 6. Thornbury, W. D. (2004): <i>Principal of Geomorphology</i>. New York, U.S.A.: Wiley. 7. Bloom, A. L. (2003). <i>Geomorphology: A Systematic Analysis of Late Cenozoic Landforms</i>, New Delhi, India: Prentice-Hall of India <p>This course can be opted as an elective by the students of following subjects: Open for all</p> | | |
| Suggested Continuous Evaluation Methods: Assignment / Test / Quiz (MCQ) / Seminar/ Presentations | | |
| Suggested equivalent online courses: https://onlinecourses.swayam2.ac.in/cec21_hs03/preview https://onlinecourses.swayam2.ac.in/nos20_sc25/preview | | |

BA 1st Year, Sem. I
Course II
(Practical)

| Program/Class: Certificate/BA | Year: First | Semester: First |
|---|---|-----------------------|
| Subject: Geography | | |
| Course Code: A110102P | Course Title: Elements of Map and Surveying | |
| Course Learning Outcomes On completion of this course, learners will be able to: <ul style="list-style-type: none">Understand the basic idea of Map, Scale and Topographic sheets | | |
| Credits: 2 | | Core Compulsory |
| Max. Marks: -25+75 | | Min. Passing Marks:40 |
| Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w | | |
| Unit | Topics | No. of Lectures |
| I | Cartography: Nature and Scope. Scales–Concept and application; Graphical Construction of Plain, Comparative, Diagonal Scales and Vernier scale. | 7 |
| II | Map Projections: Classification, Properties and Uses; Graphical Construction of Polar Zenithal, Stereographic, Bonne's and Mercator's Projections, and reference to Universal Transverse Mercator (UTM) Projection. | 7 |
| III | Topographical Map: Coverage, Scale and Topo Symbol, Interpretation Survey of India Toposheets. Representation of landforms by Contours. Slope Analysis – Wentworth's method. | 8 |
| IV | Basics of Surveying: Surveying: meaning, classification, merits and demerits. Plane Table Surveying. | 8 |
| Suggested Readings: 1. Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London 2. Raisz, E. (1962): General Cartography. John Wiley and Sons, New York. 5th edition. 3. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata. 4. Haroon, M (2021) : Prayogik Bhugol, Part- I, Wisdom Publication, Varanasi. 5. Sharma, J. P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd. edition. 6. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi,. 7. Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad. | | |
| This course can be opted as an elective by the students of following subjects: Open for all | | |

Note: In Final Examination Student shall be examined by external and internal examiners.

Marks Distribution: Written Exam, Viva, Practical File, Map Preparation, Topo sheet interpretation.

BA 1st Year, Sem. II
Course I
(Theory)

| | | |
|--|---|-----------------------|
| Program/Class: Certificate/BA | Year: First | Semester: Second |
| Subject: Geography | | |
| Course Code:A110201T | Course Title: Human Geography | |
| Course Learning Outcomes On completion of this course, learners will be able to: <ul style="list-style-type: none">• To understand the Concept, Nature, Meaning and Scope of Human Geography• To understand the natural and Cultural Changes in and around the Human Environs and their interrelationship. | | |
| Credits: 4 | | Core Compulsory |
| Max. Marks: -25+75 | | Min. Passing Marks:40 |
| Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w | | |
| Unit | Topics | No. of Lectures |
| I | Concept and Nature, Meaning and Scope of Human Geography. Development of Geographical understanding in India with special reference to Puranas. | 7 |
| II | Man and Environment relationship - Determinism, Possibilism, and Neo-determinism | 7 |
| III | Distribution of population and world pattern, global migration - causes and consequences, concept of over population and under population. | 7 |
| IV | Human Settlements: Origin, types (Rural-Urban) characteristics, House types and their distribution with special reference to India. | 7 |
| V | Primitive Economics-Food gathering, Hunting, Pastoral herding, Fishing, Lumbering and Primitive agriculture. | 8 |
| VI | Cultural Regions, Cultural Diffusion, Race, Religion and Language. | 8 |
| VII | World Tribes: Eskimos, Kirghiz, Bushman, Masai, Semang, Pygmies. | 8 |
| VIII | Indian Tribes: Bhotias, Gaddis, Tharus, Bhil, Gond, Santhal, Nagas. | 8 |

Suggested Readings:

1. Chisholm, M. (1985): Human Geography, 2nd edition, Penguin Books, London.
2. B N Singh (2019) Manav Bhugol ka Swaroop, Pravalika Publication, Allahabad
3. de Blij, H.J.(1996): Human Geography: Culture, Society and Space, 2nd edition. John Wiley and Sons, New York,
4. Haggett, P. (2004): Geography: A Modern Synthesis. 8th edition, Harper and Row, New York.
5. Haroon, M. (2018) : Manav Bhugol, Wisdom Publication, Varanasi.
6. Hussain, M. (1994): Human Geography, Rawat Publications, Jaipur.
7. B N Singh (2021) Manav evam Arthik Bhugol, Pravalika Publication, Allahabad
8. Kaushik, S.D. and Sharma, A.K. (1996): Principles of Human Geography (in Hindi), Rastogi Publication, Meerut.
9. Norton, W. (2008): Human Geography, Oxford University Press, New York. 5th ed.
10. Singh, K. N. and Singh, J. (2001): Manav Bhugol. Gyanodaya Prakashan, Gorakhpur. 2nd edition.
11. Singh, L.R. (2005): Fundamentals of Human Geography, Sharda Pustak Bhawan, Allahabad
12. Smith, D. M.(1977): Human Geography- A Welfare Approach, Edward Arnold (Publishers) Ltd., London
13. Stoddard, R.H., Wishart, D.J. and Blouet, B.W. (1986): Human Geography. Prentice-Hall, Englewood Cliffs, New Jersey.
14. B N Singh (2020) Samajik aur Sanskritik Bhugol, Pravalika Publication, Allahabad
15. Johnston, R. J., Gregory, D., Pratt, G. and Watts, M. (2009): The Dictionary of Human Geography. 5th edition, Basil Blackwell Publishers, Oxford.
16. Ali, S. Muzafer (1966). Geography of the Puranas. New Delhi, People's Pub. House.

Suggested Continuous Evaluation Methods:

Assignment / Test / Quiz(MCQ) / Seminar/ Presentations

Course prerequisites: 12th Standard Pass/Open to all

Suggested equivalent online courses:

Courses on Swayam / MOOCs

https://onlinecourses.swayam2.ac.in/nou20_hs18/preview

BA 1st Year, Sem. II
Course II
(Practical)

| | | |
|---|--|------------------------|
| Program/Class: Certificate/BA | Year: First | Semester: Second |
| Subject: Geography | | |
| Course Code:A110202P | Course Title: Thematic Mapping and Surveying | |
| Course Learning Outcomes On completion of this course, learners will be able to: <ul style="list-style-type: none"> Understand the basic idea of Map, Scale and Topographic sheets | | |
| Credits: 2 | Core Compulsory | |
| Max. Marks: -25+75 | Min. Passing Marks:40 | |
| Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w | | |
| Unit | Topics | No. of Lectures |
| I | Maps – Classification and Types, Principles of Map Design. Diagrammatic Data Presentation – Line, Bar and Circle. | 7 |
| II | Thematic Mapping Techniques – Properties, Uses and Limitations; Areal Data -- Choropleth, Dot, Proportional Circles; Point Data – Isopleths. | 7 |
| III | Cartographic Overlays – Point, Line and Areal Data. Thematic Maps – Preparation and Interpretation. | 8 |
| IV | Instrumental Survey: Prismatic Compass | 8 |
| Suggested Readings: <ol style="list-style-type: none"> Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London Raisz, E. (1962): General Cartography. John Wiley and Sons, New York. 5th edition. Haroon, M. (2021) : Prayogatmak Bhugol, Wisdom Publication, Varanasi. Sharma, J. P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd. edition. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi,. Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad. Sharma, JP. (2008): Prayogatmak Bhugol Ki Rooprekha, Rastogi Publications-Meerut. | | |
| Note: In Final Examination Student shall be examined by external and internal examiners. Marks Distribution: Written Exam, Viva, Practical File, Map Preparation. | | |

BA 2nd Year, Sem. III
Course I
(Theory)

| | | |
|---|---|------------------------|
| Programme/Class: Diploma/BA | Year: Second | Semester: Third |
| Subject: Geography | | |
| Course Code: A110301T | Course Title: Environment, Disaster Management and Climate Change | |
| Course outcomes: Students will be able to understand | | |
| <ul style="list-style-type: none">• The course aim is to give basic understanding of concept Environment, Climate Change and Disaster Management.• Understanding of the concept of appraisal and conservation of Environment and Natural Resources.• It will help in developing understanding about various Impacts of Climate Change.• This course shall introduce the basic concepts related to disaster Management.• This paper shall help in understanding Global effort in field of disaster management. | | |
| Credits: 4 | | Core Compulsory |
| Max. Marks: 25+75 | | Min. Passing Marks: 40 |
| Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w | | |
| Unit | Topics | No. of Lectures |
| I | Concepts & components of Environment, Ecology and ecosystem. Indian traditional Knowledge in Environment and disaster Management. | 8 |
| II | Bio-diversity and its conservation, sustainable development. | 8 |
| III | Deforestation, soil erosion, soil exhaustion, Desertification, Air pollution, water pollution Disposal of solid waste. | 8 |
| IV | Ganga Action Plan, Tiger project, Tehri dam & Narmada Valley project. | 8 |
| V | Science of Climate Change: Understanding Climate Change; Green House Gases and Global Warming. | 8 |
| VI | Global Climatic Assessment – IPCC, Impacts of Climate Change, National Action Plan on Climate Change. | 7 |
| VII | Disasters, Hazards, Risk, Vulnerability, Type of Disasters, Disaster Management, Disaster | 7 |

| | | |
|------|--|---|
| | Management Cycle. | |
| VIII | Flood, Drought, Cyclone, Earthquake, Tsunami, Landslide, Chemical and Nuclear Disasters. Do's and Don'ts During Disasters. | 6 |

Suggested Readings:

1. Casper J.K. (2010). *Changing Ecosystems: Effects of Global Warming*. New York, USA: Infobase Pub.
2. Hudson, T. (2011). *Living with Earth: An Introduction to Environmental Geology*. Delhi, India: PHI Learning Private Limited.
3. Miller, G.T. (2007). *Living in the Environment: Principal, Connections, and Solutions*. Belmont, Australia: Brooks/ Cole Cengage Learning.
4. Singh, R.B. (1993) *Environmental Geography*. Delhi, India: Heritage Publishers.
5. UNEP. (2007). *Global Environment Outlook: GEO4: Environment For Development, United Nations Environment Programme*. UK: University Press, Cambridge.
6. Government of India. (2011). *Disaster Management in India*. Delhi, India: Ministry of Home Affairs.
7. Singh, Savendra (2019) *Pryavaran Bhugol*, Pravalika Publication, Allahabad
8. Kapur, A. (2010). *Vulnerable India: A Geographical Study of Disasters*. Delhi, India: Sage Publication.
9. Singh, Savendra (2019) *Apada Prabandhan*, Pravalika Publication, Allahabad.
10. Ramkumar, M. (2009). *Geological Hazards: Causes, Consequences and Methods of Containment*. New Delhi, India: New India Publishing Agency.
11. Climate Change: Understanding Climate Change; Green House Gases and Global Warming; Global Climatic Assessment- IPCC
12. Climate Change and Vulnerability: Physical Vulnerability; Economic Vulnerability; Social Vulnerability.
13. Impact of Climate Change: Agriculture and Water; Flora and Fauna; Human Health
14. Adaptation and Mitigation: Global Initiatives with Particular Reference to South Asia.
15. The Climate Change Policy Framework: Global Initiatives UNFCCC and COPs; National and Local Action Plan on Climate Change.
16. Government of India. (2008). *Vulnerability Atlas of India*. New Delhi, India: Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India
17. Modh, S. (2010). *Managing Natural Disaster: Hydrological, Marine and Geological Disasters*. Delhi, India: Macmillan.
18. Bansal SC,(2020) *Jalvayu vigyan evam Samudra Vigyan*, Meenakshi Publication, Meerut.
19. Bansal SC,(2019) *Prayavarn ek adhyan*, Meenakshi Publication, Meerut.

This course can be opted as an elective by the students of following subjects: Open for all

Suggested Continuous Evaluation Methods:

Assignment / test / Quiz(MCQ) / Seminar/ Presentations

BA 2nd Year, Sem. III
Course II
(Practical)

| | | |
|---|--|------------------------|
| Programme/Class: Diploma/BA | Year: Second | Semester: Third |
| Subject: Geography | | |
| Course Code: A110302P | Course Title: Statistical Techniques and Surveying | |
| Course outcomes: Students will be able to understand <ul style="list-style-type: none">• To differentiate between qualitative and quantitative information.• To understand the nature of various data.• To understand sampling methods for data collection.• To present data through graphical and diagrammatic formats.• To use the concept of probability mainly the normal distribution. | | |
| Credits: 2 | | Core Compulsory |
| Max. Marks: 25+75 | | Min. Passing Marks: 40 |
| Total No. of Lectures-Tutorials-Practical (in hours per week): P- 2/w | | |
| Unit | Topics | No. of Lectures |
| I | Use of Data in Geography: Significance of Statistical Methods in Geography; Sources of Data, Scales of Measurement (Nominal, Ordinal, Interval, Ratio) | 8 |
| II | Tabulation and Descriptive Statistics: Frequency Distribution Table, Cross Tabulation, Graphical Presentation of Data (Bar diagram, Histograms, Frequency Curve and Cumulative Frequency Curves), Measurement of Central Tendencies (Mean, Median and Mode), Measurement of Partitions (Deciles, Quartiles and Percentiles), Dispersion (Standard Deviation, Variance and Coefficient of Variation). | 8 |
| | Sampling: Probability sampling Non-probability sampling. Correlation: Rank Correlation and Product Moment Correlation. | 7 |
| | Instrumental Survey: Sextant | 7 |

Suggested Readings:

1. Berry B. J. L. and Marble D. F. (eds.): Spatial Analysis – A Reader in Geography.
2. Ebdon D., 1977: Statistics in Geography: A Practical Approach.
3. Davis, R.E. and Foote, F.S. (1953): Surveying, 4th edition, McGraw Hill

Publication, New York

4. Haroon, M. (2019) : Prayogatmak Bhugol, Wisdom Publication, Varanasi.
5. Sharma, JP (2001) Prayogik Bhugol, Rastogi Publication, Meerut
6. Hammond P. and McCullagh P. S., 1978: Quantitative Techniques in Geography: An Introduction, Oxford University Press.
7. Sharma, PM, (2009) Bhugol Me sankhkiya Vidhyan, Rajasthan Granth Accademy, Jaipur
8. Bansal SC, (2020) Shodh vidhitantra va sankhikiya Vishyan, RK Books Publication, New Delhi.
9. King L. S., 1969: Statistical Analysis in Geography, Prentice-Hall.
10. Mahmood A., 1977: Statistical Methods in Geographical Studies, Concept.
11. Pal S. K., 1998: Statistics for Geoscientists, Tata McGraw Hill, New Delhi.
12. Sarkar, A. (2013) Quantitative geography: techniques and presentations. Orient Black Swan Private Ltd., New Delhi
13. Silk J., 1979: Statistical Concepts in Geography, Allen and Unwin, London.
14. Spiegel M. R.: Statistics, Schaum's Outline Series.
15. Yeats M., 1974: An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York.

This course can be opted as an elective by the students of following subjects: Open for all

Note: In Final Examination Student shall be examined by external and internal examiners.
Marks Distribution: Written Exam, Viva, Practical File, Instrumental Surveys.

| | | |
|---|---|-----------------------|
| Program/Class: Diploma /BA | Year: Second | Semester: Fourth |
| Subject: Geography | | |
| Course Code: A110401T | Course Title: Economic Geography | |
| Course Learning Outcomes | | |
| On completion of this course, learners will be able to: | | |
| <ul style="list-style-type: none">• Define Meaning, concepts and approaches of Economic Geography• Understand the nature of Economic activities, Resource Distribution• Understand the Effect of globalization on developing countries. | | |
| Credits: 4 | | Core Compulsory |
| Max. Marks: 25+75 | | Min. Passing Marks:40 |
| Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w | | |
| Unit | Topics | No. of Lectures |
| I | Meaning, concepts and approaches of Economic Geography; agricultural region of the world (Derwent Whittlesey). | 8 |
| II | Resource: meaning, concept and classification. Spatial organization of economic activities. | 8 |
| III | Economic organization of space, Forestry, fishing and mining activities. | 7 |
| IV | Agricultural typologies, agricultural land use model (J.H. Von Thunen) | 7 |
| V | Types of industries; Factors of location of industries; iron and steel industry, cotton textiles and sugar; Theory of industrial location (Alfred Weber). | 8 |
| VI | World transportation: Sea routes and major trans-continental railways. | 8 |
| VII | WTO and International trade: Patterns and trends | 7 |
| VIII | Effect of globalization on developing countries. | 7 |
| Suggested Readings: | | |
| 1. Haroon, M. (2020) : Arthik Bhugol, Vasundhara Prakashan, Gorakhpur. | | |
| 2. Haroon, M. (2020): Arthik Bhugol k Mooltatva, Vasundhara Prakashan, Gorakhpur | | |
| 3. B N Singh (2021) Manav evam Arthik Bhugol, Pravalika Publication, Allahabad | | |
| 4. Bryson, J., Henry, N., Keeble, D. and Martin, R. (eds.) (1999): The Economic Geography Reader: Producing and Consuming Global Capitalism. John Wiley and Sons, Inc, New York. | | |
| 5. Clark, G. L., Gertler, M. S. and Feldman, M. P. (eds.) (2000): The Oxford Handbook of Economic Geography. Oxford University Press, USA. | | |

6. Coe, N. (2007): Economic Geography: A Contemporary Introduction. Blackwell Publishers, Inc., Massachusetts.
7. Gautam, A. (2006): Aarthik Bhugol Ke Mool Tattava, Sharda Pustak Bhawan, Allahabad.
8. Guha, J. S. and Chattoraj, P.R. (2002): A New Approach to Economic Geography: A Study of Resources. The World Press Private Limited, Kolkata.
9. Hanink, D. M. (1997): Principles and Applications of Economic Geography: Economy, Policy, Environment. John Wiley and Sons, Inc, New York.
10. Hartshorne, T. A. and Alexander, J. W. (1988): Economic Geography (3rd revised edition) Englewood Cliff, New Jersey, Prentice Hall
11. Hudson, R. (2005): Economic Geographies: Circuits, Flows and Spaces. Sage Publications, London.
12. Knowles, R, Wareing, J. (2000): Economic and Social Geography Made Simple, Rupa and Company, New Delhi.
13. Sokal, Martin 2011. Economic Geographics of Globalisation: A short Introduction. Cheltenham, UK : Edward Elgar.
14. Alexander, J. W. (1988): Economic Geography. Prentice-Hall, New Delhi,

Suggested Continuous Evaluation Methods:

Assignment / test / Quiz(MCQ) / Seminar/Presentations

Suggested equivalent online courses:

Courses on Swayam / MOOCs

https://onlinecourses.nptel.ac.in/noc21_hs50/preview

BA 2nd Year, Sem. IV
Course II
(Practical)

| Program/Class: Diploma /BA | Year: Second | Semester: Fourth |
|--|---|------------------|
| Subject: Geography | | |
| Course Code:A110402P | Course Title: Weather Maps, Geological Maps and Surveying | |
| Course Learning Outcomes On completion of this course, learners will be able to: <ul style="list-style-type: none">Identify the various Survey Operations and Survey InstrumentsTo understand the idea of Basic and applied Instrumental surveying | | |
| Credits: 2 | Core Compulsory | |
| Max. Marks: 25+75 | Min. Passing Marks:40 | |
| Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w | | |
| Unit | Topics | No. of Lectures |
| I | Weather Maps, Study and Interpretation of Weather Map, Weather Forecasting. | 7 |
| II | Geological Maps: Types, Signs, Bed and Bedding plane, Rock Outcrop, Dip, Strike etc. Construction of Geological Sections. | 7 |
| III | Instrumental Survey: Indian Clinometer. | 8 |
| IV | Instrumental Survey: Theodolite | 8 |
| Suggested Readings: <ol style="list-style-type: none">Haroon, M. (2019) : Prayogatmak Bhugol, Wisdom Publication, Varanasi.Sharma, JP (2001) Prayogik Bhugol, Rastogi Publication, MeerutJones, P.A.(1968): Fieldwork in Geography, Longmans, Green and Company Ltd., First Publication, LondonKanetker, T.P. and Kulkarni, S.V.(1967): Surveying and Levelling, Vol I and II V.G. Prakashan, Poona.Natrajan, V. (1976): Advanced Surveying, B.I. Publications., Mumbai.Pugh, J.C. (1975): Surveying for Field Scientists, Methuen and Company Ltd., London, First Publication.Punmia, B.C.(1994): Surveying, Vol I, Laxmi Publications Private Ltd, New Delhi.Shephard, F.A. (1968): Surveying Problems and Solutions, Edward Arnold (Publishers) Ltd, LondonSingh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions), Kalyani Publishers, Ludhiana and New Delhi.Venkatramaiah, C. (1997): A Text Book of Surveying, Universities Press, Hyderabad.Davis, R.E. and Foote, F.S. (1953): Surveying, 4th edition, McGraw Hill Publication, New York. | | |

BA 3rd Year, Sem. V
Course I
(Theory)

| | | |
|--|---|-----------------|
| Programme/Class: Degree/BA | Year: Third | Semester: Fifth |
| Subject: Geography | | |
| Course Code: A110501T | Course Title: Regional Geography | |
| Course outcomes: Students will be able to understand <ul style="list-style-type: none">• To understand the concept of Region and Regional Planning.• To familiarize the students with Theories and Models for Regional Planning.• To develop understanding about concept of Development, Sustainable Development and Multi level planning. | | |
| Credits: 4 | Core Compulsory | |
| Max. Marks: 25+75 | Min. Passing Marks: 40 | |
| Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w | | |
| Unit | Topics | No. of Lectures |
| I | Definition of Region, Evolution and objectives of regional planning. Planning practices in Ancient India. | 8 |
| II | Types of Regional planning, Formal, Functional, and Planning Regions. | 8 |
| III | Delimitations of Region and Regional Planning. | 8 |
| IV | Theories and Models for Regional Planning: Growth Pole Model of Perroux; Myrdal, Hirschman, Rostow and Friedmann. | 8 |
| V | Sustainable Development, Concept of Development and Underdevelopment. | 8 |
| VI | Efficiency-Equity Debate: Definition, Components and Sustainability for Development. | 7 |
| VII | Indicators (Economic, Social and Environmental). | 7 |
| VIII | Need for regional planning in India, Five Year Plans and Regional Planning, multi- level planning in India. | 6 |

Suggested Readings:

1. Agyeman, Julian, Robert, D. Bullard and Bob, Evans. (Eds.) (2003). *Just Sustainabilities: Development in an Unequal World*. London: Earthscan. (Introduction and conclusion.).
2. Anand, Subhash., (2011). *Ecodevelopment : Glocal Perspectives*. New Delhi, India: Research India Press.

3. Misra, R. P., Sundaram, K.V., and Rao, V.L.S. (1974). *Regional Development planning in India*. Delhi, India: Vikas Publishing House.
4. Singh, M B, () Pradeshik Vikas Niyogan, Tara Book Agency, Varanasi.
5. Peet, R. (1999). *Theories of Development*. New York, USA: The Guilford Press.
6. Berry, B.J.L. and Horton, F.F. (1970): *Geographic Perspectives on Urban Systems*. Prentice Hall, New Jersey.
7. Bhat L.S. (1972): *Regional Planning In India*, Statistical Publishing Society
8. Blij H. J. De, 1971: *Geography: Regions and Concepts*, John Wiley and Sons.
9. Kulshetra ,S.K,(2012) : *Urban and Regional Planning in India : A hand book for Professional Practioners* , Sage Publication , New Delhi
10. Kundu, A. (1992): *Urban Development Urban Research in India*, Khanna Publ. New Delhi.
11. Misra , R.P, Sundaram K.V, PrakashRao , VLS(1974): *Regional Development Planning in India* , Vikas Publication , New Delhi.
12. Misra, R.P (1992): *Regional Planning: Concepts , techniques , Policies and Case Studies* , Concept , New Delhi
13. Friedmann, J. and Alonso W. (1975). *Regional Policy - Readings in Theory and Applications*. Massachusetts, USA: MIT Press.

This course can be opted as an elective by the students of following subjects: Open for all

Suggested Continuous Evaluation Methods:

Assignment / test / Quiz(MCQ) / Seminar/ Presentations

Suggested equivalent online courses:

https://onlinecourses.swayam2.ac.in/aic19_ge05/preview .

BA 3rd Year, Sem. V
Course II
(Theory)

(Theory)

| Program/Class: Degree /BA | Year: Third | Semester: Fifth |
|---|---|-----------------|
| Subject: Geography | | |
| Course Code:A110502T | Course Title: Basics of Remote Sensing and GIS | |
| Course Learning Outcomes On completion of this course, learners will be able to: <ul style="list-style-type: none"> Understand the Basic idea and application of Remote sensing Techniques and Geographical Information System | | |
| Credits: 4 | Core Compulsory | |
| Max. Marks: 25+75 | Min. Passing Marks:40 | |
| Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w | | |
| Unit | Topics | No. of Lectures |
| I | Remote Sensing: Definition, Type, Scope and Historical Development. Types of Satellites. | 7 |
| II | Electro-magnetic radiation: Characteristics, spectral regions and bands. Stages or Process of Remote Sensing. | 7 |
| III | Remote sensing satellites: Platform and sensors. Resolution: Spatial, Spectral, Temporal, Radiometric Resolution. | 8 |
| IV | Remote Sensing data processing and applications: Visual and digital image processing techniques. | 8 |
| V | Remote Sensing applications in Urban Planning, Agriculture, Forestry, Land use/Land cover Mapping, Oceanic Studies and Disaster Management. | 6 |
| VI | Introduction to GIS: Definition, concept and history of GIS. | 8 |
| VII | Computer fundamentals for GIS, GIS Packages like ARC GIS, ERDAS, QGI etc. | 8 |
| VIII | Coordinate system, Datum, Raster and vector data. | 8 |

Suggested Readings:

- Choniya, D D, (2016) Sudur Samvaden evam Bhogolic Suchna Pranali ke sighant, Sharda Pustak Bhavan, Allahabad.
- Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. 4th edition. John Wiley and Sons, New York
- Campbell, J.B. (2002): Introduction to Remote Sensing. 5th edition, Taylor and Francis, London
- Bhatta, B. (2010): Remote Sensing and GIS, Oxford University Press, New Delhi.
- Nag Prithvish and Kudrat M. (1998): Digital Remote Sensing, Concept Publishing Company, New Delhi
- Curran, P.J. (1985): Principles of Remote Sensing, Longman, London.

Suggested Continuous Evaluation Methods:
Assignment / test / Quiz(MCQ) / Seminar/Presenatations

Suggested equivalent online courses: Courses on Swayam / MOOCs
https://onlinecourses.swayam2.ac.in/aic20_ge05/preview

**BA 3rd Year, Sem. V,
Course III
(Practical)**

(Practical)

| | | |
|---|--|------------------------|
| Programme/Class: Degree/BA | Year: Third | Semester: Fifth |
| Subject: Geography | | |
| Course Code: A110503R | Course Title: Tour and Tour report | |
| Course outcomes: Students will be able to understand <ul style="list-style-type: none">• The variation among geographical locations.• Interaction with people with different natural and cultural settings.• Study physical and human geography of area being visited.• Learn to prepare tour report. | | |
| Credits: 2 | | Core Compulsory |
| Max. Marks: 100 | | Min. Passing Marks: 40 |
| Total No. of Lectures-Tutorials-Practical (in hours per week): P- 2/w | | |
| Unit | Topics | No. of Lectures |
| I | How to prepare Field Book, steps and methods for preparing Tour report, Methodology for Research in Field Trip, Various aspects of study in Field Trip, Preparation of Surveying in Field Trip. (30 lectures shall be taken before and during field trip) | 30 |
| Suggested Readings: | | |
| This course can be opted as an elective by the students of following subjects: Open for all..... | | |
| Suggested Continuous Evaluation Methods: The following shall be the guidelines and structure of Educational tour; | | |
| Geographical Excursion Committee | | |
| 1. All faculty members shall organize geographical excursion as 'tour in-charge' in rotation according to departmental seniority list. | | |
| 2. There shall be Geographical Excursion Committee headed by HOD in University and Principal in colleges. Tour in-charge shall act as convener of committee and shall convene a meeting at the beginning of session or semester. All other teachers of department shall be member of committee. Four/Five meritorious students based on last available examination result shall be invited by the tour in-charge to participate in meeting as members of committee. | | |
| 3. Committee shall: <ul style="list-style-type: none">a) Review the tour plan.b) Confirm that all arrangements shall be made in advance before tour departure. | | |

- c) Listen to the opinion of students and give recommendations to tour in-charge accordingly.
- d) Review academic nature of tour and evaluate day wise tour plan and academic activity as submitted by Tour in-charge.

Structure of the tour party

1. For 20 or less than 20 students one faculty member with one non teaching staff shall accompany the Tour party. For 21 to 50 students two faculty members with one non teaching staff shall accompany the Tour party. If two faculty members are required for tour, second faculty member shall be selected on the recommendation of tour in-charge. If students are more than 50 then a separate tour batch shall be constituted in same manner.
2. If female students are also participating in tour and tour in-charge, accompany other faculty member or Non teaching staff none are female then one female attended (Female faculty member from Geography or any other departments/female non teaching staff) shall accompany with tour party.

Responsibility of tour in-charge

1. Tour shall at least of 6 days stay at location with inter region variation.
2. Tour in-charge shall submit tentative day wise activity report in advance to HOD in University and Principal in colleges.
3. Tour in-charge shall coordinate with Institutes/Colleges/ Universities/Research institutes etc in location where tour is being planned for following activities like;
 - a) Interaction of students.
 - b) Lectures on various local physical and cultural attributes of the area by the experts.
 - c) Local visit with faculty members having academic understanding of the area.
4. Lectures by tour in-charge on physical and human characteristics of area being visited for educational tour.
5. Survey with students with at least one instrument like Dumpy Level, Sextant, Theodolite, GPS etc.
6. Questionnaire survey on various socio-cultural or any other aspects. Questionnaire must be prepared in advance and shall be shared during Geographical Excursion Committee meeting.
7. Tour in-charge shall collect undertaking from all students which shall be counter signed by their guardian.
8. Tour in-charge will prepare list of students accompanying the tour with their information like mobile number, address, guardian contact information and one recent color photo. One copy will also be submitted to the head in universities and Principal in colleges.
9. Teacher shall always try to minimize tour expenditure of students by;
 - a) Using concession train reservation and avoiding buses if possible.
 - b) Making stay arrangements of students in advance in youth hostels/lodges/guest

house etc.

c) Try to visit few important locations only with objective of spot study and avoiding unnecessary travel for sightseeing.

10. After the completion of tour there shall be presentation by students regarding learning outcomes and experiences under the supervision of tour in-charge. Presentation shall be attended by Geographical Excursion Committee members along with other faculty members, staff, students etc.

11. All students shall submit tour report under supervision of Tour in-charge for evaluation. Tour report shall portray all activities conducted and places visited for the purposes of study.

12. In case of any incident/injury where one or more than one student can't join tour party in return journey. One teaching/non teaching staff member shall stay with student until student's guardian arrives or alternative arrangement is not made by the college. In case tour in-charge stays the other teacher/staff member shall act as tour in-charge for remaining tour period according to seniority.

Exemption of Students from Tour

1. Tour can be exempted in very special circumstances on recommendation of tour in-charge and head (in University) or Principal (in Colleges). Exempted students will prepare local tour report based on his/her own local tour visits. Report shall be prepared under supervision of tour in-charge.

TA, DA and other expenses

1. The TA, DA and other expenses of teachers and attendants shall be met out by college as admissible to their cadre as per government rules.

Suggested equivalent online courses

**BA 3rd Year, Sem. V,
Course III
(Practical)**

| | | | |
|---|---|---------------------------------------|-----------------|
| Programme/Class: Degree/BA | | Year: Third | Semester: Fifth |
| Subject: Geography | | | |
| Course Code: A110504R | | Course Title: Project Report-1 | |
| Course outcomes: Students will be able to understand <ul style="list-style-type: none">• In-depth knowledge of research methodology.• Learn to prepare Project Report. | | | |
| Credits: 3 | | Core Compulsory | |
| Max. Marks: 25+75 | | Mjn. Passing Marks: 40 | |
| Total No. of Lectures-Tutorials-Practical (in hours per week): P- 2/w | | | |
| Unit | Topics | | No. of Lectures |
| I | Meaning, types and significance of Research, Literature review and formulation of research design, research problem, objectives, hypothesis, Research materials and methods, Sampling etc. Techniques of writing scientific reports: Preparing notes, references, bibliography, abstract and keywords etc. Note: 1. Each faculty member shall teach these topics of research to his/her Group of students independently. 2. Student shall choose supervisor according to his/her research interest and specialisation of Faculty member. | | 30 |
| Suggested Readings: | | | |
| This course can be opted as an elective by the students of following subjects: Open for all | | | |
| Suggested Continuous Evaluation Methods: Seminar, Presentations, VIVA | | | |
| Suggested equivalent online courses | | | |

**BA 3rd Year, Sem. VI,
Course I
(Theory)**

| | | |
|---|--|-----------------|
| Program/Class: Degree /BA | Year: Third | Semester: Sixth |
| Subject: Geography | | |
| Course Code:A110601T | Course Title: Geography of India | |
| Course Learning Outcomes | | |
| On completion of this course, learners will be able to: <ul style="list-style-type: none">• Understand the importance of "Ek Bharat Shrestha Bharat"• Understand the wider aspects of Geography of India | | |
| Credits: 4 | Core Compulsory | |
| Max. Marks: 25+75 | Min. Passing Marks: 40 | |
| Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w | | |
| Unit | Topics | No. of Lectures |
| I | Space relationship of India with neighbouring countries; Structure and relief; Drainage system and watersheds; Physiographic regions; Ek Bharat Shrestha Bharat: A Geographical Prospective. | 8 |
| II | Mechanism of Indian monsoons and rainfall patterns, Tropical cyclones, and western disturbances; Floods and droughts; Climatic regions; Natural vegetation; Soil types and their distributions. | 8 |
| III | Resources: Land, surface and groundwater, energy, minerals, biotic and marine resources; Forest and wildlife resources and their conservation; Energy crisis. | 7 |
| IV | Industry: Evolution of industries; Locational factors of industries; Industrial houses and complexes including public sector undertakings; Industrial regionalization; New industrial policies; Special Economic Zones; Tourism including eco-tourism. | 7 |
| V | Cultural Setting: Historical Perspective of Indian Society; Racial, linguistic and ethnic diversities; religious minorities; major tribes, tribal areas, and their problems; cultural regions. | 8 |
| VI | Population: Growth, distribution, and density of population; Demographic attributes: sex-ratio, age structure, literacy rate, work-force, dependency ratio, longevity; migration (inter-regional, intraregional and international) and associated problems; Population problems and policies; Health indicators. | 8 |

| | | |
|------|--|---|
| VII | Agriculture: Infrastructure: irrigation, seeds, fertilizers, power; Institutional factors: landholdings, land tenure, and land reforms; Cropping pattern, agricultural productivity, agricultural intensity, crop combination, land capability; Agro and social-forestry; Green revolution and its socio-economic and ecological implications. | 6 |
| VIII | Settlements: Types, patterns, and morphology of rural settlements; Urban developments; Morphology of Indian cities; Functional classification of Indian cities; Conurbations and metropolitan regions; urban sprawl; Slums and associated problems; town planning; Problems of urbanization and remedies. | 8 |

Suggested Readings:

1. Chauhan, P.R. and Prasad, M. (2003): Bharat Ka Vrihad Bhugol, Vasundhara Prakashan, Gorakhpur.
2. Farmer, B.H. (1983): An Introduction to South Asia. Methuen, London
3. Gautam, A. (2006): Advanced Geography of India, Sharda Pustak Bhawan, Allahabad
4. Johnson, B.L.C. (1963): Development in South Asia. Penguin Books, Harmondsworth
5. Krishnan, M.S. (1982): Geology of India and Burma, CAS Publishers and Distributors, Delhi.
6. Bansal SC, (2018) Bharat Ka Bhugol, Meenakshi Publication, New Delhi, Meerut.
7. Nag, P. and Gupta, S. S. (1992): Geography of India, Concept Publishing Company, New Delhi.
8. Rao, B.P. (2007): Bharat kee Bhaugolik Sameeksha, Vasundhara Prakashan, Gorakhpur.
9. Sharma, T.C. and Coutinho, O. (2003): Economic and Commercial Geography of India, Vikas Publishing House Private Ltd. New Delhi.
10. Singh, J. (2003): India: A Comprehensive Systematic Geography. Gyanodaya Prakashan, Gorakhpur
11. Singh, J. (2001): Bharat: Bhougolik Aadhar Avam Ayam, Gyanodaya Prakashan, Gorakhpur.(Hindi)
12. Singh, R.L. (ed.) (1971): India: A Regional Geography. National Geographical Society of India, Varanasi.
13. Spate, O.H. K., Learmonth A. T. A. and Farmer, B. H. (1996): India, Pakistan and Sri Lanka. Methuen, London, 7th edition.
14. Sukhwai, B.L. (1987): India: Economic Resource Base and Contemporary Political Patterns. Sterling Publication, New Delhi
15. Tiwari, R.C. (2007): Geography of India, Prayag Pustak Bhawan, Allahabad.
16. Wadia, D. N. (1959): Geology of India. Mac-Millan and Company, London and student edition, Madras.
17. Khullar, D.R. (2007): India: A Comprehensive Geography, Kalyani Publishers, New Delhi.

Suggested Continuous Evaluation Methods:

Assignment / test / Quiz(MCQ) / Seminar/ Presentations

**BA 3rd Year, Sem. VI,
Course II
(Theory)**

| Program/Class: Degree /BA | Year: Third | Semester: Sixth |
|---|--|-----------------------|
| Subject: Geography | | |
| Course Code:A110602T | Course Title: Evolution of Geographical Thought | |
| Course Learning Outcomes On completion of this course, learners will be able to: <ul style="list-style-type: none">• Understand the contribution of Indian and other renowned Geographers• Understand the concept of evolution of Geographical Thought. | | |
| Credits: 4 | | Core Compulsory |
| Max. Marks: 25+75 | | Min. Passing Marks:40 |
| Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w | | |
| Unit | Topics | No. of Lectures |
| I | Contribution of Indian Geographers in Ancient India. | 7 |
| II | Early Origins of Geographical Thinking, Concepts of distributions; relationships, interactions, area differentiation and spatial organization in Geography | 7 |
| III | Dualisms in geography; systematic & Regional geography, physical & human geography, Systematic and with regional geography. The myth and reality about dualisms. | 8 |
| IV | Contribution of Greek & Roman geographers in ancient world. | 7 |
| V | Contribution of Arab geographers in Middle ages, Renaissance period in Europe. Renowned travelers and their geographical discoveries. | 8 |
| VI | German school of thought - Kant, Humboldt, Ritter, Richthofen, Ratzel, Hettner French school of thought - Contribution of Blache & Brunhes. | 8 |
| VII | Soviet geographers, American school - Contribution of Sample, Hunthington & Carl Sauer. British school - Contribution of Mackinder, Herbertson & L.D. Stamp. | 7 |
| VIII | Paradigms in Geography, Thomas Kuhn theory about the growth and development of science. Application of Kuhn Model in Geography. | 8 |
| Suggested Readings: 1. Ali, S.M. (1960): Arab Geography, Institute of Islamic Studies, Aligarh Muslim University, Aligarh, First Edition. 2. Daniel, P., Bradshaw, M., Shaw, D. and Sidaway, J. (2000): Human Geography. Issues for the 21st Century. Prentice Hall, London. 3. Diddee, J. (ed.) (1990): Indian Geography, Institute of Indian Geographers, Pune, | | |

first edition.

4. Dikshit, R. D. (2003): Geographical Thought. A Critical History of Ideas. Prentice-Hall of India, New Delhi. (in English and Hindi).
5. Haroon, M. (2021) : History of Geographical Thought (Hindi) , Wisdom Publication, Varanasi.
6. Dube, B. (1967): Geographical Concepts in Ancient India, National Geographical Society of India, Varanasi
7. Getice, A., Getis, J. and Fellman, J. D. (2007): Introduction to Geography. 10th edition. McGraw Hill, New York.
8. Hartshorne, R. (1959): Perspective on the Nature of Geography, John Murray, London
9. Harvey, D. (1969): Explanations in Geography. Arnold, London.
10. Holt-Jensen, A. (1980): Geography: Its History and Concepts. Harper and Row Publishers, London.
11. Husain, Majid. (2002): Evolution of Geographical Thought, Rawat Publications, Jaipur.
12. Johnston, R., Gregory, D., Pratt, G., Watts, M. and Whatmore, S. (2003): The Dictionary of Human Geography. Blackwell Publishers, Oxford. 5th edition.
13. Johnston, R. and Sidaway, J.D. (2004): Geography and Geographers: Anglo-American Human Geography Since 1945, Arnold Publishers, London.
14. Rawling, E. and Daugherty, R. (eds.) (2005): Geography into the Twenty-first Century. 2nd edition. John Wiley and Sons, Chichester.
15. Taylor, G. (ed.) (1953): Geography in the Twentieth Century. Methuen and Company, London.

Suggested Continuous Evaluation Methods:

Assignment / test / Quiz(MCQ) / Seminar/ Presentation

Suggested equivalent online courses:

Courses on Swayam / MOOCs

https://onlinecourses.swayam2.ac.in/cec21_lg06/preview

**BA 3rd Year, Sem. VI,
Course III
(Practical)**

| | | |
|---|---|-----------------|
| Program/Class: Degree/BA | Year: Third | Semester: Sixth |
| Subject: Geography | | |
| Course Code: A110603P | Course Title: Remote Sensing and GIS | |
| Course Learning Outcomes On completion of this course, learners will be able to: <ul style="list-style-type: none">• Understand and Conceptualize Remote Sensing and GIS Technique• Understand the use of various image processing Software• Basic idea of Geographical Information System | | |
| Credits: 2 | Core Compulsory | |
| Max. Marks: 25+75 | Min. Passing Marks:40 | |
| Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w | | |
| Unit | Topics | No. of Lectures |
| I | Overview of image processing & GIS Packages (Including open source Software's). – ARC GIS, ERDAS, MAP INFO, ILWIS, GEOMEDIA, IDRISI, GRASS, SAGA, QGIS. | 5 |
| II | Creation of Shape File in GIS Software's. Coordinate system and projections in GIS Software's. GIS Data Structures: Types (spatial and Non-spatial), Raster and Vector Data Structure. | 5 |
| III | Geo-Referencing of Maps. Creation of Point, Line and Polygon Files and features. Preparation of Maps with Legend, Scale, North Arrow etc and Export of Map in various Formats. | 10 |
| IV | Downloading of Remote sensing Images from various online platforms (like Bhuvan, USGS, ASF, Copernicus etc). Land use Classification (Supervised and Un-supervised) using downloaded images and GIS Packages. | 10 |

Suggested Readings:

1. Curran, P.J. (1985): Principles of Remote Sensing, Longman, London
2. Chaunial, D. D. (2004): Remote Sensing and Geographical Information System(in Hindi), Sharda Pustak Bhawan, Allahabad
3. Cracknell, A. and Ladson, H. (1990): Remote Sensing Year Book. Taylor and Francis, London.
4. Curran, P.J. (1985): Principles of Remote Sensing. Longman, London.
5. Deekshatulu, B.L. and Rajan, Y.S. (ed.) (1984): Remote Sensing. Indian Academy of Science, Bangalore.
6. Floyd, F. and Sabins, Jr. (1986): Remote Sensing: Principles and Interpretation. W.H. Freeman, New York.

7. Gautam, N.C. and Raghavswamy, V. (2004). Land Use/ Land Cover and Management Practices in India. B.S. Publication., Hyderabad.
8. Jensen, J.R. (2004): Remote Sensing of the Environment: An Earth Resource Perspective. Prentice Hall, Englewood Cliffs, New Jersey. Indian reprint available.
9. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. John Wiley and Sons, New York.
10. Nag, P. (ed.) (1992): Thematic Cartography and Remote Sensing. Concept Publishing Company, New Delhi.
11. Rampal, K.K. (1999): Handbook of Aerial Photography and Interpretation. Concept Publishing. Company, New Delhi.
12. Campell, J. B. (2003): Introduction to Remote Sensing. 4th edition. Taylor and Francis, London.

Note: In Final Examination Student shall be examined by external and internal examiners.
Marks

Distribution: Written Exam, Viva, Practical File, Map Preparation using open source GIS, Image processing Software Use.

**BA 3rd Year, Sem. VI,
Course III
(Practical)**

| | | |
|--|---|-----------------|
| Program/Class: Degree/BA | Year: Third | Semester: Sixth |
| Subject: Geography | | |
| Course Code: A110604R | Course Title: Project Report-2 | |
| Course outcomes: Students will be able to understand <ul style="list-style-type: none">• In-depth knowledge and application of RS and GIS technology in research.• Learn to prepare Project Report. | | |
| Credits: 3 | Core Compulsory | |
| Max. Marks: 25+75 | Min. Passing Marks:40 | |
| Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w | | |
| Unit | Topics | No. of Lectures |
| I | Project report shall be on any topic of interest of students. It must include Remote sensing and GIS technology directly or indirectly. Like project can be based on investigation of any issue using above technology or these technology must be used in data analysis or representation. Note: 1. Each faculty member shall teach and guide to his/her Group of students independently. 2. Student shall choose supervisor according his/her research interest and specialisation of Faculty member. | 30 |
| Suggested Readings: | | |
| This course can be opted as an elective by the students of following subjects: Open for all | | |
| Suggested Continuous Evaluation Methods: Seminar, Presentations, VIVA | | |
| Suggested equivalent online courses | | |

MAHARAJA SUHEL DEV STATE UNIVERSITY
AZAMGARH U. P. (276001)



Geography BA 3rd Year, Semester V

Course III

Practical

Course Code: A110504R

Essentials of Project-Report - 1

Semester V contains the topics which are essentially a prerequisite for writing the project. Students should be taught comprehensively to get acquaintances of the research methods in a systematic way. Preparing a project, it is significant to learn the various aspects and methods of scientific writing. Without proper methodical approach, and objectivity, it is not possible to complete a project report. In this regard, all the teachers who have been engaged in the process, are required to impart the fundamentals of a research design vis-à-vis the topics enshrined in the syllabus for Project-Report.

After completing the above tasks, following guidelines are to be followed to prepare a FILE for the Practical including Viva-Voce.

Chapter - I: Theme in Research

- (i) Meaning of Research
- (ii) Nature of Research
- (iii) Types and Characteristics of Research
- (iv) Significance of Research
- (v) Ethical Considerations
- (vi) Plagiarism

Handwritten signature/initials

Handwritten initials

Chapter - II: Review of Literature

In this Chapter students will be taught as to how a particular topic possesses similar works published in the form of books, articles in different journals, periodicals, etc. of national and international review as well as unpublished and published research works and theses (Theses uploaded on JSTOR and INFLIBNET Centre). At least 35 works of international importance are to be mentioned.

(i) Works of several noteworthy authors to be cited from the following journals of Geography:

- (a) Annals of the American Association of Geographers
- (b) Area
- (c) Transactions of the Institute of British Geographers
- (d) Antipode
- (e) The Geographer (Department of Geography, Aligarh Muslim University)
- (f) Annals of the National Association of Geographers, India
- (g) The National Geographical Journal of India (Department of Geography, Banaras Hindu University)
- (h) Geographical Review of India (Department of Geography, University of Calcutta)

(ii) Books to be cited mainly published by:

- (a) Oxford University Press
- (b) Wiley, Longman, Sterling, Methuen, Blackwell, Arnold, MacMillan, Orient Longman
- (c) Routledge
- (d) Sage
- (e) McGraw-Hill
- (f) Springer
- (g) Oak Bridge, Prentice Hall
- (h) Kalyani Publishers
- (i) Rawat Publications, NBT

(iii) Others

- (a) Census Reports
- (b) Internet

EW/1/29/2

(c) Newspapers like The Hindu, The Telegraph, New York Times, National Geographic, National Digital Library of India

Chapter - III: Book Review

Must cover any of the following Authors/Publishers in 65 pages:

- (i) Any of the NCERT books of Geography from Class IX-XII
- (ii) Human Geography by Majid Husain (Rawat)
- (iii) Introducing Physical Geography by Alan Strahler (Wiley)
- (iv) Principles of Geomorphology by WD Thornbury
- (v) General Climatology by HJ Critchfield
- (vi) Success in Economic Geography by NJG Pounds
- (vii) Social Well-Being in West Bengal by Ahmad Ali
- (viii) Environmental Geography by Savindra Singh
- (ix) Fundamentals of Geographical Thought by Sudeeptha Adhikari
- (x) Report of the World Commission on Environment and Development: Our Common Future (Brundtland Report)
- (xi) The Sixth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC AR6)
- (xii) India: A Regional Geography by RL Singh
- (xiii) World Geography by Majid Husain
- (xiv) Nature of Geography by Richard Hartshorne
- (xv) Explanation in Geography by David Harvey
- (xvi) Geography of Population by RC Chandna
- (xvii) The Study of Urban Geography by Harold Carter

Chapter IV: Research Design

- (i) Defining Problem
- (ii) Formulations of Research Design
- (iii) Aims and Objectives
- (iv) Hypothesis and Hypothesis Testing
- (v) Background of Studies

Ed/Hag

- (vi) Research Methodology
- (vii) Statistical Techniques
- (viii) Cartographic Representation

Chapter - V: Database and Framework

- (i) Research Materials
- (ii) Sources of data
 - (a) Primary
 - (b) Secondary
- (iii) Techniques and Methods of Preparing Scientific Report
- (iv) Conclusion
- (v) Citations
 - (a) References
 - (b) Footnote
 - (c) Bibliography

In this section, it is essential to teach the students about various methods and systems of citing references from books, journals, periodicals, newspapers, websites, etc. It is also important to make the students aware about contents, keywords, authors, ISSN, ISBN, editorial, indexing, publishers, etc. with great accuracy and clarity. They should also be taught the difference between research writing and journalistic writing.

Scheme for Distribution of Marks

Total Marks = 100

Part A: Internal Assessment [Sessional 15 Marks, Class Attendance 05 Marks, and Interactions in Classroom 05 Marks (Total Marks = 25)]

Part B: External Assessment [Stage – I = 45 marks; Stage-II = 20 marks & Stage III = 15 marks (Total Marks = 75)]

Q/A

11

Guidelines for Conducting Practical Exam and Viva-Voce

practical Examination for this Project Report I shall have the following processes:

Stage -I: Students shall be given a set of six questions out of which 3 will have to be attempted. Questions shall comprise like this: 2 questions each from Chapter I, II, IV and V. Each question will carry 15 marks ($15 \times 3 = 45$ marks) and the duration would be $1\frac{1}{2}$ hours.

Stage -II: Any of the books mentioned in Chapter III will have to be reviewed by the students as part of the Practical Exam in a duration of $1\frac{1}{2}$ hours. It will have 20 marks for the purpose.

Stage -III: Viva-voce and record file will cover 15 marks.

Note: Minimum passing marks will be 40.


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**MAHARAJA SUHEL DEV STATE UNIVERSITY
AZAMGARH U. P. (276001)**



**Geography BA 3rd Year, Semester VI
Course III Practical
Project-Report - 2
Course Code:A110604R**

Guidelines for Preparing the Project Report - 2

Freedom of Choice – 1: An individual Project Report is to be prepared and submitted based on any one case study among the following hazards from India, incorporating a preparedness plan, preferably in the vicinity of the candidates' institution / district:

1. Earthquake
2. Landslide
3. Land subsidence
4. Thunderstorm
5. Flood
6. Riverbank / Coastal erosion
7. Fire
8. Industrial accident
9. Road / Railway accident
10. Structural collapse
11. Environmental pollution
12. Biohazard

Freedom of Choice – 2: One case study will be done by a group of five to ten students. Different groups may choose different case studies from any one of the following topics:

- a. Role Of Environment In Determining Human Health And Well-Being: A Global Concern

- b. Global Initiatives To Climate Change: Mitigation: Kyoto Protocol , Carbon Trading, Clean Development Mechanisms,
- c. Computing Human Development Index: Comparative Decadal Change Of Top Ten Indian States.
- d. Development Of Geography ^[1] In India: Contributions Of Aligarh , Kolkata , Varanasi And JNU
- e. Global Goals For Sustainable Development: Domain, Crisis, Conflict And Compromise
- f. Environmental Refugees: A Serious Global Challenge
- g. Morphometric Analysis of River Basins: A Case Study of Tamsa/ Ghaghra
- h. Water Resources in India: A Need for Sustainable Use.
- i. Measuring The Social Well-Being And Inequality In India
- j. Spatial-temporal Analysis of Urban Growth: A Case Study Of South Asia
- k. The Theory Of Demographic Transition: A Case Study Of England, Wales And India.
- l. Urban Environmental Issues with Special Reference to Waste Management
- m. Human Intervention on Fluvial System : Types, Consequences and Combative Measures With Special Reference to India.
- n. The Resource Potential of the long coastline of India and the Status of Natural Hazard preparedness in These Areas.

Note:

1. The project report must follow the methodological propositions as have been taught in fifth semester, ie, Project Report-1, which tends to concentrate around the following premises:

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A →

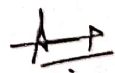
Research Design

- i) Defining Problem
- (ii) Formulations of Research Design
- (iii) Aims and Objectives
- (iv) Hypothesis and Hypothesis Testing
- (v) Background of Studies
- (vi) Research Methodology
- (vii) Statistical Techniques
- (viii) Cartographic Representation

Database and Framework

- (i) Research Materials
- (ii) Sources of data
 - (a) Primary
 - (b) Secondary
- (iv) Conclusion
- (v) Citations
 - (a) References
 - (b) Footnote
 - (c) Bibliography

1. Without the report the candidates will not be evaluated for GEO-A110604R.
2. The report should be prepared on A4 page and handwritten in candidates' own words not below 150 pages excluding references and bibliography.
3. The report should contain a proper title.
4. The Report should not be a copycat / or and be avoided to replicate the old theses, earlier Projects already done, and any of the similar works been conducted previously.
5. Ethical considerations must be kept in mind while completing the Report.
6. If it is found that the work has been plagiarised then the Report will summarily be rejected, and henceforth a redoing will have to be adopted to clear the result/ pass the examination.
7. The report should incorporate relevant tables, maps, diagrams, references, and bibliography not exceeding twenty-five pages. Photographs are optional and should not exceed three.
8. A copy of the stapled / spiral-bound/ hard-bound report, duly signed by the concerned teacher; is to be submitted during examination.
9. Minimum passing marks will be 40.



Scheme for Distribution of Marks

Total Marks = 100

Part A: Internal Assessment [Sessional 15 Marks, Class Attendance 05 Marks, and Interactions in Classroom 05 Marks (Total Marks = 25)]

Part B: External Assessment (Total Marks = 75)

27/9/2023

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29-09-2023

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