

National Education Policy-2020


Common Minimum Syllabus for all U.P.State Universities

B.A. (Geography)

PROGRAMME SPECIFIC OUTCOMES (PSOs)-

Program Outcome (After 3 Years of Study)

- This course provides the basic ideas and concepts of Physical & Human Aspect of Geography.
- This course intends to orient the learner with the Approaches to the broader discipline of Geography.
- It will help in developing analytical and critical thinking based on the themes and issues of geography.
- It eventually prepares the students to understand the development of the subject and delve around issues suited to the needs of the contemporary world.
- It will help in exhaustive understanding of the basic concepts of Geography and an awareness of the emerging areas of the field.
- Acquisition of in-depth understanding of the applied aspects of Geography as well as interdisciplinary subjects in everyday life.
- Improvement of critical thinking and skills facilitating.
- The application of knowledge gained in the field of Geography in the classroom to the practical solving of societal problems.
- The programme orients students with traditional geographical knowledge along with advanced contemporary skills like remote sensing and GIS.


डा. अरविन्द कुमार सिंह
विभागाध्यक्ष भूगोल विभाग
शिवपुरि स्नातकोत्तर महाविद्यालय
शोहराजगढ, बिरसाचन्द्रनगर


- List of all papers in all sixsemesters.

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 reading and Interpretation | Practical | 2 |
| 1 | II | A110201T | Human Geography | Theory | 4 |
| 1 | II | A110202P | Thematic, Weather and Geological Maps | Practical | 2 |
| 2 | III | A110301T | Environment, Disaster Management and Climate Change | Theory | 4 |
| 2 | III | A110302P | Statistical Techniques | Practical | 2 |
| 2 | IV | A110401T | Economic Geography | Theory | 4 |
| 2 | IV | A110402P | 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 |

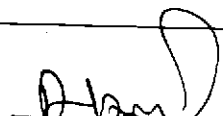
Syllabus Developed by:

| S. No. | Name | Designation | Department | College/ University |
|--------|----------------------------|---------------------|------------|---|
| 1 | Dr. Muraree Lal Meena | Associate Professor | Geography | Institute of Science, Banaras Hindu University, Varanasi (U.P.)-221005 |
| 2 | Lt. (Dr.) Meenakshi Lohani | Assistant Professor | Geography | Km. Mayawati Government Girls P.G. College, Badalpur, Gautam Buddha Nagar, U.P. |
| 3 | Dr. Kashif Imdad | Assistant Professor | Geography | PPN PG College, Kanpur-208001 |


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**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 presentday. • Plate tectonics and related movements • Landforms carved by various agents of erosion • Earth's climate and that factors that influence it • Ocean's 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, 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, Heat budget, Atmospheric pressure and winds, | 8 |
| VI | Humidity, precipitation and rainfall types, Airmasses and Fronts, cyclones and anti-cyclones, Koppen's classification | 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. Singh, Savindra (2018), Physical Geography (Eng./Hindi) Allahabad, India: Prayag Pustak Bhavan, Allahabad 2. Huggett, R.J. (2007): <i>Fundamentals of Geomorphology</i>. New York, U.S.A.: Routledge. 3. Khullar, D.R. (2012). <i>Physical Geography</i>. New Delhi, India: Kalyani Publishers. 4. Strahler, A. H. and Strahler, A. N. (2001): <i>Modern Physical Geography (4/E)</i>. New York, U.S.A.: John Wiley and Sons, Inc. 5. Thornbury, W. D. (2004): <i>Principals of Geomorphology</i>. New York, U.S.A.: Wiley. 6. Bloom, A. L. (2003). <i>Geomorphology: A Systematic Analysis of Late Cenozoic Landforms</i>, New Delhi, India: Prentice-Hall of India. 7. Singh, M. B. (2001): <i>Physical Geography (Eng/Hindi)</i>, Tara Printing Press, Varanasi 8. Bunnnett, R. B. 1965. <i>Physical Geography in Diagrams</i>, Pearson Publication 9. Leong, Cheng, Goh 1995. <i>Certificate Physical and Human Geography</i>, Oxford Publication | | |
| This course can be opted as an elective by the students of following subjects: Open for all | | |



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 शाहराबाद, मिर्जापुर नगर

Suggested Continuous Evaluation Methods:
Assignment / Test / Quiz (MCQ) / Seminar/ Presentations/ Research orientation of
students

Suggested equivalent online courses:

https://onlinecourses.swayam2.ac.in/cec21_hs03/preview

https://onlinecourses.swayam2.ac.in/nos20_sc25/preview


डा० अरविन्द कुमार सिंह
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शाहरासमूह, सिविलर्यनगर

**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 Reading and Interpretation | |
| 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. | 7 |
| II | Scales – Concept and application; Graphical Construction of Plain, Comparative, vernier scale and Diagonal Scales. | 7 |
| III | Map Projections – Classification, Properties and Uses; Graphical Construction of Conical with two Standard parallel, Bonne's, Cylindrical equal area and Mercator's Projections, Polar Zenithal Stereographic and reference to Universal Transverse Mercator (UTM) Projection. | 8 |
| IV | Topographical Map – Interpretation of a Mountain area with the help of Cross and Longitudinal Profiles. Slope Analysis – Wentworth's method. | 8 |
| Suggested Readings: | | |
| <ol style="list-style-type: none"> 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. Sharma, J. P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd edition. 5. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi. 6. 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 and Nature, Meaning and Scope of Human Geography • To understand the natural and Cultural Changes in and around the Human Environs and their interrelationship. • To understand the Bhartiya Sanskriti Evam Paryavaran Chetna. | | |
| 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. | 7 |
| II | Man-Environment relationship - Determinism, Possibilism, and Neo-determinism, Bhartiya Sanskriti Evam Paryavaran Chetna | 7 |
| III | Distribution of population and world pattern, global migration - causes and consequences, concept of over population under population and Optimum 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 Realm, cultural Diffusion, Race | 8 |
| VII | World Tribes: Eskimos, Kirghiz, Bushman, Masai, Semang, Pygmies. | 8 |
| VIII | Indian Tribes: Todas, Gaddis, Tharus, Bhil, Gond, Santhal, Nagas | 8 |
| Suggested Readings: <ol style="list-style-type: none"> 1. Chisholm, M. (1985): Human Geography, 2nd edition, Penguin Books, London. 2. B N Singh (2019) Manav Bhugol ka Swarup, 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. Hussain, M. (1994): Human Geography, Rawat Publications, Jaipur. 6. B N Singh (2021) Manav evam Arthik Bhugol, Pravalika Publication, Allahabad 7. Kaushik, S.D. and Sharma, A.K. (1996): Principles of Human Geography (in Hindi), Rastogi Publication, Meerut. 8. Norton, W. (2008): Human Geography, Oxford University Press, New York. 5th ed. 9. Singh, K. N. and Singh, J. (2001): Manav Bhugol. Gyanodaya Prakashan, Gorakhpur. 2nd edition. 10. Singh, L.R. (2005): Fundamentals of Human Geography, Sharda Pustak Bhawan, | | |

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| Allahabad |
| 11. Smith, D. M.(1977): Human Geography- A Welfare Approach, EdwardArnold (Publishers) Ltd.,London |
| 12. Stoddard, R.H., Wishart, D.J. and Blouet, B.W. (1986): Human Geography. Prentice-Hall, Englewood Cliffs, NewJersey. |
| 13. B N Singh (2020) Samajik aur Sanskritik Bhugol, Pravalika Publication,Allahabad |
| 14. Johnston, R. J., Gregory, D., Pratt, G. and Watts, M. (2009): The Dictionary of Human Geography. 5th edition, Basil Blackwell Publishers,Oxford. |
| 15. Dixit, S. K. () Manav Bhugol (Hindi), Vasundhara Prakashan, Gorakhpur |
| Suggested Continuous Evaluation Methods: Assignment / Test / Quiz(MCQ) / Seminar/ Presentations/ Research orientation of students |
| Course prerequisites: 12 th 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, Weather and Geological Maps | |
| 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. Cartographic Overlays – Point, Line and Areal Data. Thematic Maps – Preparation and Interpretation. | 7 |
| III | Weather Maps, Study and Interpretation of Weather Map, Weather Forecasting. | 8 |
| IV | Geological Maps: Types, Signs, Bed and Bedding plane, Rock Outcrop, Dip, Strike etc. Construction of Geological Sections. | 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. Sharma, J. P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd. edition. | | |
| 4. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi. | | |
| 5. Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad. | | |
| 6. Sharma, J.P. (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 | |
| <p>Course outcomes: Students will be able to understand</p> <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. Environmental education in Vedas, Indian traditional Knowledge in Environment and disaster Management. | 8 |
| II | Bio-diversity and its conservation, sustainable development, Energy crisis. | 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 Disaster Management, Disaster Management Cycle. | 7 |
| VIII | Type of Disasters - Flood (special reference of Eastern U.P.), 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: InfobasePub.
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, Savindra (2019) *Pryavaran Bhugol*, Pravalika Publication, Allahabad
8. Kapoor, A. (2010). *Vulnerable India: A Geographical Study of Disasters*. Delhi, India: Sage Publication.
9. Singh, Savindra (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 S.C. (2020) *Jalvayu vigyan evam Samudra Vigyan*, Meenakshi Publication, Meerut.
19. Bansal S. C. (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/ Research orientation of students

Suggested equivalent online courses:

https://onlinecourses.swayam2.ac.in/aic19_ge05/preview
https://onlinecourses.swayam2.ac.in/nou21_bt03/preview

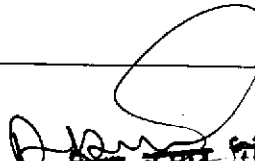

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शाहरागढ, सिताबनगर

**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 | |
| 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 |
| III | Sampling: Purposive, Random, Systematic and Stratified. Theoretical Distribution: Concept of Probability Distribution (theory only), Normal Distribution (Its Characteristics and Application of Area Under Normal Curve) | 7 |
| IV | Scatter Diagrams, Correlation: Rank Correlation and Product Moment Correlation, | 7 |
| Suggested Readings: | | |
| <ol style="list-style-type: none"> Berry B. J. L. and Marble D. F. (eds.): Spatial Analysis – A Reader in Geography. Ebdon D., 1977: Statistics in Geography: A Practical Approach. Davis, R.E. and Foote, F.S. (1953): Surveying, 4th edition, McGraw Hill Publication, New York Sharma, JP (2001) Prayogik Bhugol, Rastogi Publication, Meerut Hammond P. and McCullagh P. S., 1978: Quantitative Techniques in Geography: An Introduction, Oxford University Press. Sharma, PM, (2009) Bhugol Me sankhkiya Vidhyan, Rajasthan Granth Accademy, Jaipur Bansal S.C. (2020) Shodh vidhitantra va sankhikiya Vishyan, RK Books Publication, New Delhi. King L. S., 1969: Statistical Analysis in Geography, Prentice-Hall. Mahmood A., 1977: Statistical Methods in Geographical Studies, Concept. Pal S. K., 1998: Statistics for Geoscientists, Tata McGraw Hill, New Delhi. Sarkar, A. (2013) Quantitative geography: techniques and presentations. Orient Black Swan Private Ltd., New Delhi Silk J., 1979: Statistical Concepts in Geography, Allen and Unwin, London. Spiegel M. R.: Statistics, Schaum's Outline Series. Yeats M., 1974: An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York. Singh, S. N. (2017) Prakritik Ewam Samajik Vigyano mein Sankhyiki, Kausal Publication, Ayodhya, UP | | |
| 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. | | |

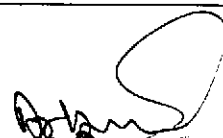
**BA 2nd Year, Sem. IV,
Course I
(Theory)**

| 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: | | |
| <ol style="list-style-type: none"> 1. B N Singh (2021) Manav evam Arthik Bhugol, Pravalika Publication, Allahabad 2. Bryson, J., Henry, N., Keeble, D. and Martin, R. (eds.) (1999): The Economic Geography Reader: Producing and Consuming Global Capitalism. John Wiley and Sons, Inc, New York. 3. Clark, G. L., Gertler, M. S. and Feldman, M. P. (eds.) (2000): The Oxford Handbook of Economic Geography. Oxford University Press, USA. 4. Coe, N. (2007): Economic Geography: A Contemporary Introduction. Blackwell Publishers, Inc., Massachusetts. 5. Gautam, A. (2006): Aarthik Bhugol Ke Mool Tattava, Sharda Pustak Bhawan, Allahabad. 6. Guha, J. S. and Chattoraj, P.R. (2002): A New Approach to Economic Geography: A Study of Resources. The World Press Private Limited, Kolkata. 7. Hanink, D. M. (1997): Principles and Applications of Economic Geography: Economy, Policy, Environment. John Wiley and Sons, Inc, New York. 8. Hartshorne, T. A. and Alexander, J. W. (1988): Economic Geography (3rd revised edition) Englewood Cliff, New Jersey, Prentice Hall 9. Hudson, R. (2005): Economic Geographies: Circuits, Flows and Spaces. Sage Publications, London. 10. Knowles, R, Wareing, J. (2000): Economic and Social Geography Made Simple, Rupa and Company, New Delhi. 11. Sokal, Martin 2011. Economic Geographics of Globalisation: A short Introduction. Cheltenham, UK: Edward Elgar. 12. Alexander, J. W. (1988): Economic Geography. Prentice-Hall, New Delhi. | | |
| Suggested Continuous Evaluation Methods: | | |
| Assignment / test / Quiz (MCQ) / Seminar/Presentations/ Research orientation of students | | |
| Suggested equivalent online courses: | | |
| Courses on Swayam / MOOCs | | |
| https://onlinecourses.nptel.ac.in/noc21_hs50/preview | | |


डा० अरविन्द कुमार सिंह
 विभागाध्यक्ष भूगोल विभाग
 शिवपुरी स्नातकोत्तर महाविद्यालय
 शहरतलाक, शिवपुरीनगर

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

| Program/Class: Diploma /BA | Year: Second | Semester: Fourth |
|--|--|------------------|
| Subject: Geography | | |
| Course Code:A110402P | Course Title: Practical: Surveying | |
| <p>Course Learning Outcomes On completion of this course, learners will be able to:</p> <ul style="list-style-type: none"> • Identify the various Survey Operations and Survey Instruments • To 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 | Basics of Surveying: meaning, classification, merits and demerits. | 5 |
| II | Instrumental Survey: Survey with Chain Tape, Plane Table, Prismatic Compass, Sextant, Dumpy level and Indian Clinometer. | 25 |
| <p>Suggested Readings:</p> <ol style="list-style-type: none"> 1. Sharma, JP (2001) Prayogik Bhugol, Rastogi Publication, Meerut 2. Jones, P.A.(1968): Fieldwork in Geography, Longmans, Green and Company Ltd.,First Publication,London 3. Kanetker, T.P. and Kulkarni, S.V.(1967): Surveying and Levelling, Vol I and II V.G.Prakashan, Poona. 4. Natrajan, V. (1976): Advanced Surveying, B.I. Publications.,Mumbai. 5. Pugh, J.C. (1975): Surveying for Field Scientists, Methuen and Company Ltd., London,First Publication. 6. Punmia, B.C.(1994): Surveying, Vol I, Laxmi Publications Private Ltd, NewDelhi. 7. Shephard, F.A. (1968): Surveying Problems and Solutions, Edward Arnold (Publishers)Ltd, London 8. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions), Kalyani Publishers, Ludhiana and NewDelhi. 9. Venkatramaiah, C. (1997): A Text Book of Surveying, Universities Press,Hyderabad. 10. Davis, R.E. and Foote, F.S. (1953): Surveying, 4th edition, McGraw Hill Publication, NewYork | | |
| <p>Note: In Final Examination Student shall be examined by external and internal examiners. Marks Distribution: Written Exam, Viva, Practical File, Instrumental Surveys.</p> | | |


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 विभागाध्यक्ष भूगोल विभाग
 शिवपति स्मृतिकोश महाविद्यालय
 शाहदपुर, सिकंदरपुर

**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 their approaches, multi- level planning in India, Niti Aayog | 6 | |
| Suggested Readings: | | | |
| <ol style="list-style-type: none"> 1. Agyeman, Julian, Robert, D. Bullard and Bob, Evans. (Eds.) (2003). <i>Just Sustainabilities: Development in an Unequal World</i>. London: Earthscan. (Introduction and conclusion.) 2. Anand, Subhash. (2011). <i>Ecodevelopment: Glocal Perspectives</i>. New Delhi, India: Research India Press. 3. Mishra, R. P., Sundaram, K.V., and Rao, V.L.S. (1974). <i>Regional Development planning in India</i>. Delhi, India: Vikas Publishing House. 4. Singh, M B, and Dubey K. K. () Pradeshik Vikas Niyogan, Tara Book Agency, Varanasi. 5. Peet, R. (1999). <i>Theories of Development</i>. New York, USA: The Guilford Press. 6. Berry, B.J.L. and Horton, F.F. (1970): <i>Geographic Perspectives on Urban Systems</i>. Prentice Hall, New Jersey. 7. Bhat L.S. (1972): <i>Regional Planning in India</i>, Statistical Publishing Society 8. Blij H. J. De, 1971: <i>Geography: Regions and Concepts</i>, John Wiley and Sons. 9. Kulshetra, S.K., (2012): <i>Urban and Regional Planning in India: A hand book for Professional Practitioners</i>, Sage Publication, New Delhi 10. Kundu, A. (1992): <i>Urban Development Urban Research in India</i>, Khanna Publ. New Delhi. 11. Mishra, R.P, Sundaram K.V, Prakash Rao, VLS (1974): <i>Regional Development Planning in India</i>, Vikas Publication, New Delhi. 12. Mishra, R.P (1992): <i>Regional Planning: Concepts, techniques, Policies and Case Studies</i>, Concept, New Delhi 13. Friedmann, J. and Alonso W. (1975). <i>Regional Policy - Readings in Theory and Applications</i>. 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/ Research orientation of students | | | |
| Suggested equivalent online courses: | | | |
| https://onlinecourses.swayam2.ac.in/aic19_ge05/preview | | | |

**BA 3rd Year, Sem. V,
Course II
(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: Concept and scope;Development of Remote sensing in world and India | 7 |
| II | Types of Remote Sensing: Air borne and space borne; | 7 |
| III | Aerial photos: types and characteristics; | 8 |
| IV | Remote sensing satellites: platform and sensors. | 8 |
| V | Remote Sensing data processing and applications: Visual and digital image processing techniques; | 6 |
| VI | Remote Sensing applications in resource mapping and environmental monitoring. | 8 |
| VII | Electro-magnetic radiation: characteristics, spectral regions and bands; Interaction with earth surface features and atmosphere; Spectral signature. | 8 |
| VIII | Determination of photo scale, identification and interpretation of geomorphic features and land use/land cover map from stereogram and satellite Images. | 8 |
| Suggested Readings: | | |
| 1. Choniya, D. D. (2016) Sudur Samvaden evam Bhogolic Suchna Pranali ke sighthant, Sharda Pustak Bhavan, Allahabad. | | |
| 2. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. 4 th edition. John Wiley and Sons, New York | | |
| 3. Campbell, J.B. (2002): Introduction to Remote Sensing. 5th edition, Taylor and Francis, London | | |
| 4. Bhatta, B. (2010): Remote Sensing and GIS, Oxford University Press, New Delhi. | | |
| 5. Nag Prithvish and Kudrat M. (1998): Digital Remote Sensing, Concept Publishing Company, New Delhi | | |
| 6. Curran, P.J. (1985): Principles of Remote Sensing, Longman, London | | |
| Suggested Continuous Evaluation Methods: Assignment / test / Quiz(MCQ) / Seminar/ Presentations/ Research orientation of students | | |
| Suggested equivalent online courses: Courses on Swayam / MOOCs https://onlinecourses.swayam2.ac.in/aic20_ge05/preview | | |

**BA 3rd Year, Sem. V,
Course III
(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 Excretion Committee All faculty members shall organize geographical excretion as tour in-charge in rotation according to seniority list. There shall be Geographical Excretion 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. Committee shall: <ol style="list-style-type: none"> 1. Review the tour plan. 2. Confirm that all arrangements are made in advance. 3. Listen to the opinion of students and give recommendations to tour in-charge accordingly. 4. 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 For 20 or less the 20 students one Faculty member with one non-teaching staff shall accompany the Tour party. For 21 to 50 students Two Faculty member with one non-teaching staff shall accompany the Tour party. If students are more than 50 then a separate tour batch shall be constituted in same manner. 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 | | |


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 शहरतण्ड, सिद्धार्थनगर

party.

Responsibility of tour in-charge

Tour shall at least of 6 days stay at location with inter region variation.

Tour in-charge shall submit tentative day wise activity report in advance to HOD in University and Principal in colleges.

Tour in-charge shall coordinate with Institutes/Colleges/ Universities/Research institutes etc in location where tour is being planned for following activities like;

1. Interaction of students.
2. Lectures on various local physical and cultural attributes of the area by the experts.
3. Local visit with faculty members having academic understanding of the area.

Lectures by tour in-charge on physical and human characteristics of area being visited for educational tour.

Survey with students with at least one instrument like Dumpy Level, Sextant, Theodolite, GPS etc.

Questionnaire survey on various socio-cultural or any other aspects. Questionnaire must be prepared in advance and shall be shared during Geographical Excretion Committee meeting.

Tour in-charge shall collect undertaking from all students which shall be counter signed by their guardian.

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.

Teacher shall always try to minimize tour expenditure of students by;

1. Using concession train reservation and avoiding buses if possible.
2. Making stay arrangements of students in advance in youth hostels/lodges/guest house etc.
3. Try to visit few important locations only and avoiding unnecessary travel for sightseeing.

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 Excretion committee members along with other faculty members, staff, students etc.

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.

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 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

Tour can be exempted in 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 own local visits under supervision of tour in-charge.

TA, DA and other expenses


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

Suggested equivalent online courses


डा. अरविन्द कुमार
विभागाध्यक्ष भूगोल
शिबपति स्नातकोत्तर महाविद्यालय
शहरासद, विन्ध्यनगर

**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 | Min. 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 specialization of Faculty member. | 45 |
| 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 | | |


डॉ. अरविन्द कुमार सिंह
विभागाध्यक्ष कृषि विभाग
शिवपुरी स्नातकोत्तर महाविद्यालय
शोहरतगढ़, मिर्जापुर जिला

**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 | Physical I: Space relationship of India with neighboring countries; Structure and relief; Drainage system and watersheds; Physiographic regions; Shrestha Bharat: Ek Vishisht Vichar | 8 |
| II | Physical II: Mechanism of Indian monsoons and rainfall patterns, Tropical cyclones, and western disturbances; 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; | 7 |
| IV | Industry: Evolution of industries; Locational factors of industries in India; 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; 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: | | |
| <ol style="list-style-type: none"> 1. Chauhan, P.R. and Prasad, M. (2003): Bharat Ka Vrihad Bhugol, VasundharaPrakashan, 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 S. C. (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. GyanodayaPrakashan, Gorakhpur 11. Singh, J. (2001): Bharat: Bhougolik Aadhar Avam Ayam, GyanodayaPrakashan, 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/ Research orientation of students | | |
| Suggested equivalent online courses: Courses on Swayam / MOOCs | | |
| https://onlinecourses.swayam2.ac.in/nou20_ag10/preview | | |


डा० अरविन्द कुमार सिंह
 विभागाध्यक्ष भूगोल विभाग
 विद्यार्थी सहायकता मन्त्रालय
 सोहरतगढ़, बिहार-845001

**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, The myth and reality about dualisms. | 8 |
| IV | Paradigms in Geography, Thomas Kuhn theory about the growth and development of science. Application of Kuhn Model in Geography. | 7 |
| V | Contribution of Greek & Roman geographers in ancient world. | 8 |
| VI | Contribution of Arab geographers in Middle ages, Renaissance period in Europe. Renowned travelers and their geographical discoveries. | 8 |
| VII | German school of thought - Kant, Humboldt, Ritter, Richthofen, Ratzel, Hettner French school of thought - Contribution of Blache & Brunhes. | 7 |
| VIII | Soviet geographers, American school - Contribution of Sample, Hunthington & Carl Sauer. British school - Contribution of Mackinder, Herbertson & L.D. Stamp. | 8 |
| Suggested Readings: <ol style="list-style-type: none"> 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. Dube, B. (1967): Geographical Concepts in Ancient India, National Geographical Society of India, Varanasi 6. Getice, A., Getis, J. and Fellman, J. D. (2007): Introduction to Geography. 10th edition. McGraw Hill, New York. 7. Hartshorne, R. (1959): Perspective on the Nature of Geography, John Murray, London | | |

8. Harvey, D. (1969): Explanations in Geography. Arnold, London.
9. Holt-Jensen, A. (1980): Geography: Its History and Concepts. Harper and Row Publishers, London.
10. Husain, Majid. (2002): Evolution of Geographical Thought, Rawat Publications, Jaipur.
11. Johnston, R., Gregory, D., Pratt, G., Watts, M. and Whatmore, S. (2003): The Dictionary of Human Geography. Blackwell Publishers, Oxford. 5th edition.
12. Johnston, R. and Sidaway, J.D. (2004): Geography and Geographers: Anglo-American Human Geography Since 1945, Arnold Publishers, London.
13. Rawling, E. and Daugherty, R. (eds.) (2005): Geography into the Twenty-first Century. 2nd edition. John Wiley and Sons, Chichester.
14. Taylor, G. (ed.) (1953): Geography in the Twentieth Century. Methuen and Company, London.
15. Dixit, S. K. () Bhauglik Chintan, Vasundhara Prakashan, Gorakhpur


Suggested Continuous Evaluation Methods:

Assignment / test / Quiz(MCQ) / Seminar/ Presentation/ Research orientation of students

Suggested equivalent online courses:

Courses on Swayam / MOOCs

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


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शिवपति स्मार्टवेलर महाविद्यालय
शहरलखनऊ, मिर्जापुर नगर

BA 3rd Year, Sem. VI,

Course III

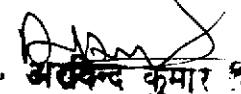
(Practical)

| 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 | Remote Sensing and GIS: Definition and Components, Development, Platforms and Types, | | 5 |
| II | Aerial Photography and Satellite Remote Sensing: Principles, Types and Geometry of Aerial Photograph; Principles of Remote Sensing, EMR Interaction with Atmosphere and Earth Surface; Satellites (Landsat and IRS) and Sensors | | 10 |
| III | GIS Data Structures: Types (spatial and Non-spatial), Raster and Vector Data Structure | | 5 |
| IV | Image Processing (Digital and Manual) and Data Analysis: Pre-processing (Radiometric and Geometric Correction), Enhancement (Filtering); Classification (Supervised and Un-supervised), Geo-Referencing; Editing and Output; Overlays Interpretation and Application of Remote Sensing and GIS: Land use/ Land Cover, Urban Sprawl Analysis; Forests Monitoring | | 10 |
| <p>Suggested Readings:</p> <ol style="list-style-type: none"> 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. <p>Note: In Final Examination Student shall be examined by external and internal examiners.</p> <p>Marks Distribution: Written Exam, Viva, Practical File, Map Preparation using open-source GIS, Image processing Software Use.</p> | | | |

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 technologies 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 to his/her research interest and specialization of Faculty member. | 45 |
| 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 | | |


डा० अरविन्द कुमार सिंह
विभागाध्यक्ष भूगोल विभाग
शिवपुरी स्नातकोत्तर महाविद्यालय
भांडारगढ़, सिद्धार्थनगर