

भूगोल (4)



National Education Policy-2020
Common Minimum Syllabus for all U.P. State Universities/ Colleges
SUBJECT: GEOGRAPHY

Name	Designation	Affiliation
Steering Committee		
Mrs. Monika S. Garg, (I.A.S.), Chairperson Steering Committee	Additional Chief Secretary	Dept. of Higher Education U.P., Lucknow
Prof. Poonam Tandan	Professor, Dept. of Physics	Lucknow University, U.P.
Prof. Hare Krishna	Professor, Dept. of Statistics	CCS University Meerut, U.P.
Dr. Dinesh C. Sharma	Associate Professor	K.M. Govt. Girls P.G. College Badalpur, G.B. Nagar, U.P.
Supervisory Committee - Arts and Humanities Stream		
Prof. Divya Nath	Principal	K.M. Govt. Girls P.G. College Badalpur, G.B. Nagar, U.P.
Prof. Ajay Pratap Singh	Dean, Faculty of Arts	Ram Manohar Lohiya University, Ayodhya
Dr. Nitu Singh	Associate Professor	HNB Govt P.G College Prayagaraj
Dr. Kishor Kumar	Associate Professor	K.M. Govt. Girls P.G. College Badalpur, G.B. Nagar, U.P.
Dr. Shweta Pandey	Assistant Professor	Bundelkhand University, Jhansi

Syllabus Developed by:

S. N.	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

Dr. Muraree Lal Meena
Associate Professor
Geography
P.G. College, Badalpur

Lt. (Dr.) Meenakshi Lohani
Assistant Professor
Geography
P.G. College, Badalpur

Dr. Kashif Imdad
Assistant Professor
Geography
PPN PG College, Kanpur

Dr. Kashif Imdad
(सि० अध्यक्ष सि०)
सि० अध्यक्ष (अभियंता अनुमान पत्रिका)
ऑफिस सि० प्रो० सि० सि० सि०

Dr. Kashif Imdad
(सि० अध्यक्ष सि०)

B.A. in Geography

PROGRAMME SPECIFIC OUTCOMES (PSOs)-

Program Outcome (After 3 Years of Study)

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

Dr. Anil Kumar
Head of Department
(Geography)
J. B. College, Jaipur

Dr. Anil Kumar
Head of Department
(Geography)
J. B. College, Jaipur

Dr. Anil Kumar
(Head of Department)

Dr. Anil Kumar
(Head of Department)

- 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

अध्यापक
 आचार्य सत्यजित
 चौधरी (अध्यक्ष)
 अक्षांश विभाग
 दिल्ली विश्वविद्यालय, दिल्ली

2

सहायक
 अ. भूगोल विभाग
 दिल्ली विश्वविद्यालय
 ए. डी. कॉलेज, जयपुर

(अ. भूगोल विभाग)

आचार्य
 (अ. भूगोल विभाग)
 अक्षांश विभाग (अध्यक्ष)
 दिल्ली विश्वविद्यालय

**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

सहायक
 प्रमुख
 विभागाध्यक्ष
 भूगोल विभाग
 एम. ए. कॉलेज, सांगली

आ. 3
 (सो. अ. वि. वि.)
 सहायक प्रमुख (अ. वि. वि.)
 एम. ए. कॉलेज, सांगली

(सो. अ. वि. वि.)

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 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>Principal 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 		
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/cec21_hs03/preview https://onlinecourses.swayam2.ac.in/nos20_sc25/preview		

सविता कौशिक
ऑफिसर प्रोफेसर
(ऑपरेशनल रिसर्च)
एन.ए.के. कॉलेज
मिर्जापुर, नरसिंहराज, राजस्थान

सविता
2. Strahler, A. H. and Strahler, A. N. (2001):
Modern Physical Geography (4/E). New York,
U.S.A.: John Wiley and Sons, Inc.

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अरुण
(सीओ ऑफिसर रिसर्च)
ऑपरेशनल रिसर्च (ऑपरेशनल रिसर्च)
ओ.ए.के. कॉलेज, नरसिंहराज, राजस्थान

अरुण
(सीओ ऑफिसर रिसर्च)

**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:		
<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. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata. 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. 		
This course can be opted as an elective by the students of following subjects: Open for all		

Aditya Kumar
 आदित्य कुमार
 कार्टोग्राफी और सर्वेक्षण
 प्रयोगिक भूगोल
 दिल्ली विश्वविद्यालय
 2020-21

AS
 (510 अक्षांश रेखा)
 अक्षांश रेखा (अक्षांश अक्षांश रेखा)
 अक्षांश रेखा को रेखा के रूप में चिह्नित करें

(Dr. Pradyumn Singh)

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.

सिलेबस
2. थंबोले फॉर्म
दस्तावेज प्रत. संग्रहण
T.D. College: Jalgaon

अभिज्ञान परीक्षा
(संदर्भदाता प्रश्नपत्र)
भूगोल विभाग
विद्यार्थी संख्या: 1234567890123456

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A/E
(डी.ओ. आचार्य सिंह)
सी.बी.एस. (भूगोल) जालगांव यू.पी.ए.
ओ.बी.डी. सिंह यू.पी. वि. वि. जालगांव

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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

A/S
(सि० अमित सिंह)
अध्यापक (अभियंता) जल संसाधन विभाग
आर० ए० आर० सि० ए० जे०

सि० ए०
अध्यापक
अभियंता (अभियंता) जल संसाधन विभाग
आर० ए० आर० सि० ए० जे०

(सि० अमित सिंह)

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. 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, Allahabad
11. Smith, D. M.(1977): Human Geography- A Welfare Approach, Edward Arnold (Publishers) Ltd., London
12. Stoddard, R.H., Wishart, D.J. and Blouet, B.W. (1986): Human Geography. Prentice-Hall, Englewood Cliffs, New Jersey.
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. 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

सिद्धि
A. Manish Kumar
Bharatpur Coll. Geography
P.O. College, Jaipur

अध्यक्ष
आचार्य सहाय
(सहायक अध्यक्ष)
संस्कृत विश्वविद्यालय
विश्वविद्यालय, दिल्ली

आर्य
(सो अर्थ विज्ञान)
संस्कृत विश्वविद्यालय
दिल्ली

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**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"> 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, 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.		

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अभिषेक शर्मा
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**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

Dr. Jyoti Bhat
अधीक्षक प्राध्यापिका
(अध्यापक संशोधक)
सुरक्षा कक्षा
विद्ययापीठ, नागपुर, महाराष्ट्र, इ.स.

Dr. Manish Kumar
अधीक्षक प्राध्यापक
विद्ययापीठ, नागपुर, महाराष्ट्र, इ.स.

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A&S
(S/O अर्थशास्त्र विभाग)

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	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

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Suggested equivalent online courses:
https://onlinecourses.swayam2.ac.in/aic19_ge05/preview
https://onlinecourses.swayam2.ac.in/nou21_bt03/preview

Dr. Jyoti Bhat
अभिज्ञान प्राध्यापिका
(अभिलेखित प्राध्यापिका)
मुंबई विद्यापीठ
विद्यार्थी-सहायकता केंद्र, मुंबई

Dr. Jyoti Bhat
Associate Prof. Geography
T.D. College, Mumbai

Jyoti Bhat

Dr. Jyoti Bhat
(डॉ. ज्योती बट) -
अभिज्ञान (अभिलेखित प्राध्यापिका)
मुंबई विद्यापीठ

Jyoti Bhat
(डॉ. ज्योती बट)

**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	
<p>Course outcomes: Students will be able to understand</p> <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: Probability sampling Non-probability sampling. Correlation: Rank Correlation and Product Moment Correlation.	7
IV	Instrumental Survey: Sextant	7
Suggested Readings:		
<ol style="list-style-type: none"> 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 		

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Publication, New York

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

श्रीगंगा कलेज
आर्य समाज परिसर
कानपुर-208002
उत्तर प्रदेश

श्रीगंगा कलेज
आर्य समाज परिसर
कानपुर-208002
उत्तर प्रदेश

आर्य समाज
(श्रीगंगा कलेज परिसर)
(कानपुर-208002)

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**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. 		

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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

Suggested equivalent online courses:
Courses on Swayam / MOOCs
https://onlinecourses.nptel.ac.in/noc21_hs50/preview

Delhiya Chauhan
माहितीचा पर्यायी
(ऑनलाइन कोर्सवर)
भूगोल विभाग
सिद्दिकपट्टणकर महाविद्यालय, मुंबई, इ.स.

सिद्दिकपट्टणकर
A. Shankar, from
Bharatiya Mahavidyalaya,
T.D. College, Mumbai

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आर्य
(सो अनाद सिंह)
सिद्दिकपट्टणकर (भूगोल विभाग)
सिद्दिकपट्टणकर महाविद्यालय, मुंबई
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**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 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	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"> 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, New Delhi. 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 New Delhi. 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, New York. 		

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, New Delhi.
 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 New Delhi.
 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, New York.

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 (S/O अमित सिंह)
 शिक्षण प्रमुख, जे. ए. आर. कॉलेज, मुंबई
 17/05/2020

(S/O अमित सिंह)

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

Dr. Manish Kumar
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जी. ए. ए. सि. प्रो. (भूगोल) T. D. College, Jaunpur

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**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). <i>Just Sustainabilities: Development in an Unequal World</i> . London: Earthscan. (Introduction and conclusion.).		
2. Anand, Subhash., (2011). <i>Ecodevelopment : Global Perspectives</i> . New Delhi, India: Research India Press.		

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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

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**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: 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:		
<ol style="list-style-type: none"> Choniya, D D, (2016) Sudur Samvaden evam Bhogolic Suchna Pranali ke sighth, 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. 		

सहायक प्राध्यापक
भूगोल विभाग
राजस्थान विश्वविद्यालय
जयपुर

सहायक प्राध्यापक
भूगोल विभाग
राजस्थान विश्वविद्यालय
जयपुर

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

Suggested equivalent online courses:Courses on Swayam / MOOCs
https://onlinecourses.swyam2.ac.in/aic20_ge05/preview

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AS
(S/O Anshu Kumar)
Assistant Professor
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**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 Excursion Committee		
<ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> a) Review the tour plan. b) Confirm that all arrangements shall be made in advance before tour departure. 		

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- 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

अध्यक्ष
 आचार्य प्रशान्त
 (अध्यक्ष, आचार्य)
 प्रमुख, विभाग
 विभागाध्यक्ष, आचार्य, आचार्य, आचार्य

24
 आचार्य प्रशान्त
 2. Member from
 Department of Geography
 P.O. College, Jaunpur
 (S/O आचार्य प्रशान्त)
 आचार्य प्रशान्त (अध्यक्ष, आचार्य प्रशान्त)
 आचार्य प्रशान्त प्रमुख, विभाग

(S/O आचार्य प्रशान्त)
 आचार्य प्रशान्त (अध्यक्ष, आचार्य प्रशान्त)

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

Aditya Kumar
आचार्य पदवी
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संस्कृत विभाग
विश्वविद्यालय-सहाय्यक, दिल्ली

Dr. Anshu Kumar
Associate Prof. Geography
P. D. College, Jammu

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A. K.
(डॉ० आनंद सिंह)
संयोजक (भूगोल) आर.एम.एस. (एन.टी.)
एन.टी. सिंह यू.टी. वि. वि. जयपुर
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**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 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		

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अभिज्ञान परीक्षा
(अभिलेखित प्रश्नपत्र)
सुप्रसन्न विद्यापीठ
विश्वविद्यालय, मुंबई

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Geomatics and Geography
P.B. College, Mumbai

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विश्वविद्यालय, मुंबई
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**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

अध्यक्ष
अभिज्ञान प्रशिक्षक
(सहसंचालक पदवी)
एन.ए. कॉलेज, मुंबई

अध्यक्ष
अभिज्ञान प्रशिक्षक
(सहसंचालक पदवी)
एन.ए. कॉलेज, मुंबई

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अभिज्ञान प्रशिक्षक
ओ.ए.ए. कॉलेज, मुंबई

अभिज्ञान प्रशिक्षक
(सहसंचालक पदवी)

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. Sukhwal, 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

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Suggested equivalent online courses: Courses on Swayam / MOOCs
https://onlinecourses.swayam2.ac.in/nou20_ag10/preview

अध्यापक
अभियंता (संरचना)
(संरचना विभाग)
संरचना विभाग
संरचना विभाग

2. शब्दांकन
अभियंता (संरचना)
संरचना विभाग
संरचना विभाग

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संरचना विभाग (असम)
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**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,		

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(अभिज्ञान अभिज्ञान रीट)

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.

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

Suggested equivalent online courses:
Courses on Swayam / MOOCs
https://onlinecourses.swayam2.ac.in/cec21_lq06/preview

अभिषेक शर्मा
आचार्य पदवी
कार्यकारी अधिकारी
स्वायंभार
विद्ययापीठ-सहायिका, दिल्ली, भारत

2. मानव भू-
शास्त्र की-Geography
T.D. College, Jaipur

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(सो आर्य सिंह)
अध्यक्ष (प्रमुख) असाइनमेंट
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**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.		

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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.

Ashya Bhanu
 Assistant Professor
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 Government College
 Bangalore

Dr. Manjunath
 Associate Prof. Geography
 T.D. College, Bangalore

A.K.
 (S/O Anand Reddy)
 Assistant Professor
 Government College
 Bangalore

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**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		

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**Department of Higher Education
U.P. Government, Lucknow**

National Education Policy-2020
Common Minimum Syllabus for all U.P. State Universities

Co-curricular course: Semester-6

Course Title: Communication Skills and Personality Development

Name	Designation	Affiliation
Steering Committee		
Mrs. Monika S. Garg, (I.A.S.), Chairperson Steering Committee	Additional Chief Secretary	Dept. of Higher Education U.P., Lucknow
Prof. Poonam Tandan	Professor, Dept. of Physics	Lucknow University, U.P.
Prof. Hare Krishna	Professor, Dept. of Statistics	CCS University Meerut, U.P.
Dr. Dinesh C. Sharma	Associate Professor	K.M. Govt. Girls P.G. College Badalpur, G.B. Nagar, U.P.

Syllabus Developed by:

S.N.	Name	Designation	Department	College/ University
1	Dr. Rachana Singh	Associate Professor	Psychology	Agra College, Agra
2	Mrs. Abha Chaudhary	Senior Trainer - India	Grooming and Personality Development	Aero Aviation Academy, Chandigarh

Co-curricular Certificate course 'Communication Skills and Personality Development'

Programme: Certificate	Year: Third	Semester: Sixth
Co-Curricular Course		
Course Code: Z060601	Course Title: Communication Skills and Personality Development	
Course outcomes:		
<ul style="list-style-type: none">To understand the concept of Personality.To learn what personal grooming pertains.To learn to make good resume and prepare effectively for interview.To learn to perform effectively in group discussions.To explore communication beyond language.To learn to manage oneself while communicating.To acquire good communication skills and develop confidence.		
Credits: 2		Compulsory
Max. Marks: 25+75		Min. Passing Marks:
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 2-0-0		

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Unit	Topics	No. of Lectures Total=30
I	PERSONALITY AND PERSONAL GROOMING	7 All topics will include practical learning
	Understanding Personality <ul style="list-style-type: none"> • Definition and Meaning of Personality • Types of Personality • Components of Personality • Determinants of Personality • Assessment of Personality Grooming Self <ul style="list-style-type: none"> • Dress for success • Make up & skin care • Hair care & styles for formal look • Art of accessorizing • Oral Hygiene 	
II	INTERVIEW PREPARATION AND GROUP DISCUSSION	8 Mock Interviews Included
III	BODY LANGUAGE AND BEHAVIOUR	7
	<ul style="list-style-type: none"> • Concept of human behavior • Individual and group behavior • Developing Self-Awareness • Behaviour and body language • Dimensions of body language: <ul style="list-style-type: none"> Proxemics Haptics Oculesics Paralanguage Kinesics Sign Language Chromatics Chronemics Olfactics • Cultural differences in Body Language • Business Etiquette & Body language • Body Language in the Post Corona Era • Virtual Meeting Etiquette • Social Media Etiquette 	

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 Kolkata-700032, India


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 Department of Geography
 Jadavpur University
 Kolkata-700032, India


(Dr. Ashya Ghosh)
 Assistant Professor
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 Kolkata-700032, India

Ashya Ghosh
 Assistant Professor
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
Ashya Ghosh
 Assistant Professor
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 Jadavpur University
 Kolkata-700032, India

ART OF GOOD COMMUNICATION	
IV	<ul style="list-style-type: none"> • Communication Process • Verbal and Non-verbal communication • 7 C's of effective communication • Barriers to communication • Paralinguistics <ul style="list-style-type: none"> Pitch Tone Volume Vocabulary Word stress Pause • Types of communication <ul style="list-style-type: none"> Assertive Aggressive Passive Aggressive • Listening Skills • Questioning Skills • Art of Small Talk • Email Writing
	8
Suggested Readings:	
1. Cloninger, S.C., "Theories of Personality : Understanding Person", Pearson, New York, 2008, 5 th edition.	
2. Luthans F, "Organizational Behaviour", McGraw Hill, New York, 2005, 12 th edition.	
3. Barron, R.A. & Brian D, "Social Psychology", Prentice Hall of India, 1998, 8 th edition.	
4. Adler R.B., Rodman G. & Hutchinson C.C. , "Understanding Human Communication", Oxford University Press : New York, 2011.	
5. Suggestive digital platforms web links-	
Suggested Continuous Evaluation Methods:	
Suggested equivalent online courses:	
Further Suggestions:	


 (Dr. Anand Singh)


 (Dr. Anand Singh)

A.S.
 (Dr. Anand Singh)
 संचालक (प्रशासनिक मामलों में)
 जी.एस. सिंह प्रो. वि. वि. जौहूर


 A. Sharma
 Associate Prof. Geography
 T.O. College, Jaurahpur

Ananya Kumar
 आचार्य प्रदीप
 (संस्कृत विभागाध्यक्ष)
 प्रो. वि. वि. जौहूर