C.C.S. University, Meerut

Meeting of Board of Studies of Geography dated: 07/06/21

Subject: Minutes of the meeting of Board of Studies of Geography.

An online meeting of the Board of Studies of Geography was held on 7th June 2021 at 11 A.M.

Following members were present in the meeting:

- Prof. Y. Vimla, Pro-Vice Chancellor
- Prof. N.C. Lohani, Dean, Faculty of Arts
- Dr. Anita Malik, Convener
- Prof. S.K. Bansal, External Subject Expert
- Dr. J.P. Sharma, External Subject Expert
- Prof. P.K. Garg, Director, Research Organization
- Dr. Ramkumar Giri, Scientist, Special Invitee
- Dr. Deepshikha Sharma, Principal, Special Invitee
- Dr. Virendra Singh, Principal of the College
- Dr. Jyoti, Member
- Dr. Ghazanfer Ullah, Member

Item no.1- Syllabus prepared by the 'Subject Core Committee' of National Education Policy 2020 was discussed in the meeting and proposed syllabus has been modified for the coming academic session 2021-22 as per the guidelines given by the core committee. (Annexure-1)

Item no.2-The syllabus for Geography as 'Minor subject'(elective) is drafted

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In the form of two theory papers and two practical examinations. (Annexure-2)

Item no.3-A fresh complete outline/structure to all the three years of B.A. Geography has been prepared and proposed by the Board as suggestion for the consideration of authority.

These suggestions are as follows-

a) As per the opinion of subject experts, the title of the paper Regional Geography (B.A. 3rd year ,5th semester) should be 'Regional Development and Planning' as the content of this paper is related to Regional Development and Planning.

b) The paper "Environment, Disaster Management and Climate Change" (B.A. 2nd year,3rd semester) is advised to be taught in B.A. 3rd year (4th semester) as this paper requires slightly more mature understanding. Its title should be "Environment and Sustainability"

c) The paper 'Geography of India' (B.A. 3rd year 4th semester) should be shifted and taught in B.A. 2nd year (3rd semester) as after this year the student may choose another subject. So as per the unanimous opinion the 'Board' this is more appropriate to teach this paper before the end of the 2nd year.

The main objective of this structure is to make students enable to understand the subject more effectively. (Annexure-3)

Item no.4-The proposal to introduce geography subject as under graduate course in 'Department of Geography, C.C.S. University campus' is approved by all the members of the Board of Study.

The meeting ended with a vote of thanks to the chair.

Best Regards



Dr. Anita Malik

Convener

P.K. Garg

(Prof P.K. Garg)
IIT Roorkee

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Annexure-1

CCS UNIVERSITY, MEERUT

SUBJECT: GEOGRAPHY

SYLLABUS FOR: B.A.

(Session 2021-22 onwards)

Prepared By:

Board Of Studies In Geography

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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 comtemprary skills like remote sensing and GIS.

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- **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

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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

- 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 (Big Bang Theory and Indian Concepts). Geological Time Scale (with special reference to evidences from India), Interior of the Earth.	8
II	Origin of Continents and Oceans, Isostacy, 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 reefs and it's type.	7

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VIII	Biosphere: Meaning and Concept, components Of Biosphere, concept Of Biotic succession, Biome: Tropical evergreen rainforest biome, Savanna biome, Temperate grassland biome, Tundra biome, Hot desert and semi desert biome.	6

Suggested Readings:

1. Singh, Savindra (2018), Physical Geography (Eng./Hindi) Allahabad, India: Prayag Pustak
2. Huggett, R.J. (2007): *Fundamentals of Geomorphology.* New York, U.S.A.: Routledge.
3. Khullar, D.R. (2012). *Physical Geography.* New Delhi. India: Kalyani Publishers.
4. Strahler, A. H. and Strahler, A N. (2001): *Modern Physical Geography* (4/E). New York, U.S.A.: John Wiley and Sons, Inc.
5. Thornbury, W. D. (2004): *Principal of Geomorphology.* New York, U.S.A.: Wiley.
6. Bloom, A. L. (2003). Geomorphology: A Systematic Analysis of Late Cenozoic Landforms, New Delhi, India: Prentice-Hall of India
7. Dr. Alka Gautam: Bhautik Bhugol, Rastogi Publication, Meerut
8. Majid Husain: Bhautik Bhugol, Rawat Publication, New Delhi

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

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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:
- 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, Cylindrical Equal Area Projection, 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. Types Of Profiles.	8
IV	Basics of Surveying: Surveying: meaning, classification, merits and demerits. Plane Table Surveying By Intersection and resection (only one method).	8

Suggested Readings:
1. Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London
2. Raisz, E. (1962): General Cartography. John Wiley and Sons, New York. 5th edition.
3. Sarkar, A. K. (1997): Practical Geography: A Systematic Approach. Orient Longman, Kolkata.
4. 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.

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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:

- 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	Population- Distribution and pattern, global migration - causes and consequences, concept of over population and under population.	7
IV	Human Settlements: Origin, types and pattern (Rural-Urban) characteristics, House types and their distribution with special reference to India.	7
V	Primitive Economies-Food gathering, Hunting, Pastoral herding, Fishing, Lumbering and Primitive agriculture.	8
VI	Cultural Regions, Race, Religion and Language, Cultural Diffusion.	8
VII	World Tribes: Eskimos, Kirghiz, Bushman, Masai, Semang, Pygmies.	8
VIII	Indian Tribes: Bhotias, Gaddis, Tharus, Bhil, Gond, Santhal, Nagas.	8

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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.
16. Dr. Chaturbhuj Mamoria, Manav Bhugol, Sahitya Publication
17. Majid Husain: Manav Bhugol, Rawat Publication, New Delhi

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

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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:
- 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:

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 Kl 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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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

- 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

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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 Management Cycle.	7
VIII	Natural Disaster: Flood, Drought, Cyclone, Earthquake, Man-made disaster: 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.
20. Dr. Alka Gautam, Prayavarn Bhugol, Sharda Pustak Bhawan, Allahabad

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

Programme/Class: Diploma/BA	Year: Second	Semester: Third
Subject: Geography		
Course Code: A110302P	Course Title: **Statistical Techniques and Surveying**	

Course outcomes: Students will be able to understand

- 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	Methods Of Sampling, Probability, Correlation (Rank Correlation) and Regression.	7
IV	Application Of Statistical methods in Socio-economic Survey.	7

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Suggested Readings:

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

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

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

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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:
- 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: Spatial organization of economic activities	8
II	Resource: meaning, concept, classification and distribution.	8
III	Spatio-Economic organization of, Forestry, fishing and mining activities.	7
IV	Agricultural typologies, agricultural land use model (J.H. Von Thunen)	7
V	Types of industries; Factors of location of industries; Iron and steel industry, cotton textiles and sugar; Theory of industrial location (Alfred Weber).	8
VI	World transportation: Sea routes and major trans-continental railways.	8

VII	WTO and International trade: Patterns and trends	7
VIII	Effect of globalization on developing countries.	7

Suggested Readings:

1. 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 Geographies 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

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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:
- 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/Sextant.	8
IV	Instrumental Survey: Theodolite/telescope Alidade/Dumpy Level.	8

Suggested Readings:

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.

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

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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
- 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, Boudeville and R.P. Mishra.	8
V	Sustainable Development, Concept of Development and Underdevelopment.	8
VI	Efficiency-Equity Debate: Definition, Components and Sustainability for Development.	7
VII	Reginal development indicators (Economic, Social and Environmental).	7
VIII	Need for regional planning in India, Five Year Plans and Regional Planning, multi- level planning in India.	6

Suggested Readings:

1. Agyeman, Julian, Robert, D. Bullard and Bob.Evans. (Eds.) (2003). *Just Sustainabilities: Development in an Unequal World*. London: Earthscan. (Introduction and conclusion.).
2. Anand, Subhash.,(2011). *Ecodevelopment : Glocal Perspectives*. New Delhi, India: Research India Press.
3. Misra, R. P., Sundaram, K.V., and Rao, V.L.S. (1974). *Regional Development planning in India*. Delhi, India: Vikas Publishing House.
4. Singh, M B, () Pradeshik Vikas Niyogan, Tara Book Agency, Varanasi.
5. Peet, R. (1999). *Theories of Development*. New York, USA: The Guilford Press.
6. Berry, B.J.L. and Horton, F.F. (1970): Geographic Perspectives on Urban Systems. Prentice Hall, New Jersey.
7. Bhat L.S. (1972): Regional Planning in India, Statistical Publishing Society
8. Blij H. J. De, 1971: Geography: Regions and Concepts, John Wiley and Sons.
9. Kulshetra ,S.K.,(2012) : Urban and Regional Planning in India : A hand book for Professional Practioners , Sage Publication , New Delhi
10. Kundu, A. (1992): Urban Development Urban Research in India, Khanna Publ. New Delhi.
11. Misra , R.P, Sundaram K.V, PrakashRao , VLS(1974): Regional Development Planning in India , Vikas Publication , New Delhi.
12. Misra, R.P (1992): Regional Planning: Concepts , techniques , Policies and Case Studies , Concept , New Delhi
13. Friedmann, J. and Alonso W. (1975). *Regional Policy - Readings in Theory and Applications*. Massachusetts, USA: MIT Press.
14. Dr. S.D. Maurya, Pradeshik Niyojan Evam Vikas, Prawalika Publication, prayagraj
15. Mahindra Bhadur Singh, Kamala kant Dubey, Tara Book Agency, Varanasi

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/gic19_ge05/preview

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

12

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:
- 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	Types and their characteristics of aerial photographers. Basic of image interpretation and it's application.	8
V	Introduction to GIS: Definition, concept and history of GIS.	6
VI	Remote Sensing and GIS applications in Urban Planning, Agriculture, Forestry, Land use/Land cover Mapping, Oceanic Studies and Disaster Management.	8

VII	Computer fundamentals for GIS, GIS Packages like ARC GIS, ERDAS, QGI etc.	8
VIII	Coordinate system, Datum, Raster and vector data. File Formats (Like Geo-TIFF, JPEG, PNG, IMG, SHP, KML etc.)	8

Suggested Readings:

1. Choniyal, D D, (2016) Sudur Samvaden evam Bhogolic Suchna Pranali ke sighant, Sharda Pustak Bhavan, Allahabad.
2. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. 4th 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.
7. Dr. Devi Dutt Chauniyal: Sudur Samvedan avom Bhaugolik Suchana Pranali ke Sidhanth, Sharda pustak bhawan, Allahabad
8. Prof. P.K. Garg Principle and Theory Of Geo-informatics, Khanna Book publication, New Delhi

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

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

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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
- The variation among geographical locations.
- Interaction with people with different natural and cultural settings.
- Study physical and human geography of area being visited.
- Learn to prepare tour report.

Credits: 2	Core Compulsory
Max. Marks: 100	Min. Passing Marks: 40

Total No. of Lectures-Tutorials-Practical (in hours per week): P- 2/w

Unit	Topics	No. of Lectures
I	How to prepare Field Book, steps and methods for preparing Tour report, Methodology for Research in Field Trip, Various aspects of study in Field Trip, Preparation of Surveying in Field Trip. (30 lectures shall be taken before and during field trip)	30

Suggested Readings:

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

Suggested Continuous Evaluation Methods:
The following shall be the guidelines and structure of Educational tour;

Geographical Excursion Committee

1. All faculty members shall organize geographical excursion as 'tour in-charge' in rotation according to departmental seniority list.
2. There shall be Geographical Excursion Committee headed by HOD in University and Principal in colleges. Tour in-charge shall act as convener of committee and shall convene a meeting at the beginning of session or semester. All other teachers of department shall be member of committee. Four/Five meritorious students based on last available examination result shall be invited by the tour in-charge to participate in meeting as members of committee.

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3. Committee shall:
   a) Review the tour plan.
   b) Confirm that all arrangements shall be made in advance before tour departure.
   c) Listen to the opinion of students and give recommendations to tour in-charge accordingly.
   d) Review academic nature of tour and evaluate day wise tour plan and academic activity as submitted by Tour in-charge.

Structure of the tour party

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

Responsibility of tour in-charge

1. Tour shall at least of 6 days stay at location with inter region variation.
2. Tour in-charge shall submit tentative day wise activity report in advance to HOD in University and Principal in colleges.
3. Tour in-charge shall coordinate with Institutes/Colleges/ Universities/Research institutes etc in location where tour is being planned for following activities like;
   a) Interaction of students.
   b) Lectures on various local physical and cultural attributes of the area by the experts.
   c) Local visit with faculty members having academic understanding of the area.
4. Lectures by tour in-charge on physical and human characteristics of area being visited for educational tour.
5. Survey with students with at least one instrument like Dumpy Level, Sextant, Theodolite, GPS etc.
6. Questionnaire survey on various socio-cultural or any other aspects. Questionnaire must be prepared in advance and shall be shared during Geographical Excursion Committee meeting.
7. Tour in-charge shall collect undertaking from all students which shall be counter signed by their guardian.

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8. Tour in-charge will prepare list of students accompanying the tour with their information like mobile number, address, guardian contact information and one recent color photo. One copy will also be submitted to the head in universities and Principal in colleges.
9. Teacher shall always try to minimize tour expenditure of students by;
   a) Using concession train reservation and avoiding buses if possible.
   b) Making stay arrangements of students in advance in youth hostels/lodges/guest house etc.
   c) Try to visit few important locations only with objective of spot study and avoiding unnecessary travel for sightseeing.
10. After the completion of tour there shall be presentation by students regarding learning outcomes and experiences under the supervision of tour in-charge. Presentation shall be attended by Geographical Excursion Committee members along with other faculty members, staff, students etc.
11. All students shall submit tour report under supervision of Tour in-charge for evaluation. Tour report shall portray all activities conducted and places visited for the purposes of study.
12. In case of any incident/injury where one or more than one student can't join tour party in return journey. One teaching/non teaching staff member shall stay with student until student's guardian arrives or alternative arrangement is not made by the college. In case tour in-charge stays the other teacher/staff member shall act as tour in-charge for remaining tour period according to seniority.

Exemption of Students from Tour

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

TA, DA and other expenses

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

Suggested equivalent online courses

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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
- 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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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:
- 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 neighboring 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 resources; Forest and wildlife resources and their conservation (A study of Hastinapur wildlife	7

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	sanctuary)	
IV	Industry: Evolution of industries; Locational factors of industries; Industrial houses and complexes including public sector undertakings; Industrial regionalization; New industrial policies; Special Economic Zones; Tourism including eco-tourism.	7
V	Cultural Setting: Historical Perspective of Indian Society; Racial, linguistic and ethnic diversities; religious minorities; major tribes, tribal areas, and their problems; cultural regions.	8
VI	Population: Growth, distribution, and density of population; Demographic attributes: sex-ratio, age structure, literacy rate, work-force, dependency ratio, longevity; migration (inter-regional, intraregional and international) and associated problems; Population problems and policies; Health indicators.	8
VII	Agriculture: Infrastructure: irrigation, seeds, fertilizers, power; Institutional factors: landholdings, land tenure, and land reforms; Cropping pattern, agricultural productivity, agricultural intensity, crop combination, land capability; Agro and social-forestry; Green revolution and its socio-economic and ecological implications.	6
VIII	Settlements: Types, patterns, and morphology of rural settlements; Urban developments; Morphology of Indian cities; Functional classification of Indian cities; Conurbations and metropolitan regions; urban sprawl; Slums and associated problems; town planning; Problems of urbanization and remedies.	8

Suggested Readings:

1. Chauhan, P.R. and Prasad, M. (2003): Bharat Ka Vrihad Bhugol, Vasundhara Prakashan, Gorakhpur.
2. Farmer, B.H. (1983): An Introduction to South Asia. Methuen, London
3. Gautam, A. (2006): Advanced Geography of India, Sharda Pustak Bhawan, Allahabad
4. Johnson, B.L.C. (1963): Development in South Asia. Penguin Books, Harmondsworth
5. Krishnan, M.S. (1982): Geology of India and Burma, CAS Publishers and Distributors, Delhi.
6. Bansal SC,(2018) Bharat Ka Bhugol, Meenakshi Publication, New Delhi, Meerut.
7. Nag, P. and Gupta, S. S. (1992): Geography of India, Concept Publishing Company, New Delhi.
8. Rao, B.P. (2007): Bharat kee Bhaugolik Sameeksha, Vasundhara Prakashan, Gorakhpur.
9. Sharma, T.C. and Coutinho, O. (2003): Economic and Commercial Geography of India,

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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.
18. Bhramdutt Awasthi vishv shakti Bharat, sasta sahitye mandal prakashan, New Delhi

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

Suggested equivalent online courses: Courses on Swayam / MOOCs
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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:
- 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

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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 21stCentury. 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.Dr. Suresh Chandra Bansal: bhougolik chintan, Meenakshi prakashan, Meerut
16.Dr. S.D. Maurya: bhougolik chintan ka itihas,Prawalika publication, Allahabad

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

Suggested equivalent online courses:
Courses on Swayam / MOOCs
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BA 3rd Year, Sem. VI,
Course III
(Practical)

(2)

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:
- 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 downloads (like platforms bhuvan and USGS etc.) and different types of image and shape file formats geo-TIFF, JPEG, PNG.IMG, KML and SHP etc. Processing and GIS package including open source: QGIS/GOOGLE EARTH/GOOGLE MAPS.	5
II	Introducing the GIS Data Structures: Types (spatial and Non-spatial), Data Collection through GPS / ODK Collect/ Bhuvan Panchayat/ Google Earth etc. Raster and Vector Data Structure.	5
III	Shape files generation and 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	Mapping for Disaster Management Initiatives / Risk based planning: Marking of vulnerabilities areas/ Transport Sector: Medical sector/ Tourism Sector/ Power Sector/ Health Sector/ Urban –land use Planning /Alerts or warnings over affected areas of disaster like high inundations, snowfall, landslides and Land use Classification (Supervised and Unsupervised) etc.	10

Suggested Readings:

1. Curran, P.J. (1985): Principles of Remote Sensing. Longman, London
2. Chaunial, D. D. (2004): Remote Sensing and Geographical Information System(In Hindi), Sharda Pustak Bhawan, Allahabad
3. Cracknell, A. and Ladson, H. (1990): Remote Sensing Year Book. Taylor and Francis, London.
4. Curran, P.J. (1985): Principles of Remote Sensing. Longman, London.

5. Deekshatulu, B.L. and Rajan, Y.S. (ed.) (1984): Remote Sensing. Indian Academy of Science, Bangalore.
6. Floyd, F. and Sabins, Jr. (1986): Remote Sensing: Principles and Interpretation. W.H. Freeman, New York.
7. Gautam, N.C. and Raghavswamy, V. (2004). Land Use/ Land Cover and Management Practices in India. B.S. Publication., Hyderabad.
8. Jensen, J.R. (2004): Remote Sensing of the Environment: An Earth Resource Perspective. Prentice Hall, Englewood Cliffs, New Jersey. Indian reprint available.
9. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. John Wiley and Sons, New York.
10. Nag, P. (ed.) (1992): Thematic Cartography and Remote Sensing. Concept Publishing Company, New Delhi.
11. Rampal, K.K. (1999): Handbook of Aerial Photography and Interpretation. Concept Publishing. Company, New Delhi.
12. Campell, J. B. (2003): Introduction to Remote Sensing. 4th edition. Taylor and Francis, London.
13. Dr. Devi Dutt Chauniyal: Sudur Samvedan avom Bhaugolik Suchana Pranali ke Sidhanth, Sharda pustak bhawan, Allahabad.
14. Prof. P.K. Garg Principle and Theory Of Geo-informatics, Khanna Book publication, New Delhi

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.

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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 • 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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(Annexure-2)

CCS UNIVERSITY, MEERUT

Bachelor in Arts

SUBJECT: GEOGRAPHY

(Syllabus For Minor Elective Subject)

(Session 2021-22 onwards)

Prepared By:

Board Of Studies In Geography

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1ST YEAR

Course I

(Theory)

Programme/Class: Certificate/ BA	Year: First	Semester: First
Subject: Geography		
Course Code:	Course Title: Physical Geography	

Course outcomes: Students will be able to understand

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 (Big Bang Theory and Indian Concepts). Geological Time Scale (with special reference to evidences from India), Interior of the Earth.	8
II	Origin of Continents and Oceans, Isostacy, 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

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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 reefs and it's type.	7
VIII	Biosphere: Meaning and Concept, components Of Biosphere, concept Of Biotic succession, Biome: Tropical evergreen rainforest biome, Savanna biome, Temperate grassland biome, Tundra biome, Hot desert and semi desert biome.	6

Suggested Readings:

1. Singh, Savindra (2018), Physical Geography (Eng./Hindi) Allahabad, India: Prayag Pustak
2. Huggett, R.J. (2007): *Fundamentals of Geomorphology*. New York, U.S.A.: Routledge.
3. Khullar, D.R. (2012). *Physical Geography*. New Delhi. India: Kalyani Publishers.
4. Strahler, A. H. and Strahler, A N. (2001): *Modern Physical Geography* (4/E). New York, U.S.A.: John Wiley and Sons, Inc.
5. Thornbury, W. D. (2004): *Principal of Geomorphology*. New York, U.S.A.: Wiley.
6. Bloom, A. L. (2003). Geomorphology: A Systematic Analysis of Late Cenozoic Landforms, New Delhi, India: Prentice-Hall of India
7. Dr. Alka Gautam: Bhautik Bhugol, Rastogi Publication, Meerut
8. Majid Husain: Bhautik Bhugol, Rawat Publication, New Delhi

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

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1st YEAR

Course II

(Practical)

Program/Class: Certificate/BA	Year: First	Semester: First
Subject: Geography		
Course Code:	Course Title: Map- Elements, Reading and Interpreta	

Course Learning Outcomes

On completion of this course, learners will be able to:

- 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

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II	Map Projections: Classification, Properties and Uses; Graphical Construction of Polar Zenithal, Cylindrical Equal Area Projection, 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. Types Of Profiles.	8
IV	Weather Maps, Study and Interpretation of Weather Map, Weather Forecasting.	8

Suggested Readings:e

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. editior

5. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hir 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.

Page Break

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2ND YEAR

Course I

(Theory)

Program/Class: Certificate/BA	Year: First	Semester: Second
Subject: Geography		
Course Code:	Course Title: **Human Geography**	

Course Learning Outcomes

On completion of this course, learners will be able to:

- 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	Population- Distribution and pattern, global migration - causes and consequences, concept of over population and under population.	7
IV	Human Settlements: Origin, types and pattern (Rural-Urban) characteristics, House types and their distribution with special reference to India.	7

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V	Primitive Economies-Food gathering, Hunting, Pastoral herding, Fishing, Lumbering and Primitive agriculture.	8
VI	Cultural Regions, Race, Religion and Language, Cultural Diffusion.	8
VII	World Tribes: Eskimos, Kirghiz, Bushman, Masai, Semang, Pygmies.	8
VIII	Indian Tribes: Bhotias, Gaddis, Tharus, Bhil, Gond, Santhal, Nagas.	8

Suggested Readings:

1. Chisholm, M. (1985): Human Geography, 2nd edition, Penguin Books, London.

2. B N Singh (2019) Manav Bhugol ka Swaroop, Pravalika Publication, Allahabad

3. de Blij, H.J.(1996): Human Geography: Culture, Society and Space,. 2nd edition. John Wiley and Sons, New York,

4. Haggett, P. (2004): Geography: A Modern Synthesis. 8th edition, Harper and Row, New York.

5. 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

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Human Geography. 5th edition, Basil Blackwell Publishers, Oxford.

15. Ali, S. Muzafer (1966). Geography of the Puranas. New Delhi, People's Pub. House.

16. Dr. Chaturbhuj Mamoria, Manav Bhugol, Sahitya Publication

17. Majid Husain: Manav Bhugol, Rawat Publication, New Delhi

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

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2ND YEAR

Course II

(Practical)

Programme/Class: Diploma/BA	Year: Second	Semester: Third
Subject: Geography		
Course Code:	Course Title: **Statistical and Quantitative Techniques in Geography**	

Course outcomes: Students will be able to understand
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	Methods Of Sampling, Probability, Correlation (Rank Correlation) and Regression.	7
IV	Application Of Statistical method on various Data through socio economic survey.	7

Suggested Readings:

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 Academy, Jaipur

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IV	Application Of Statistical method on various Data through socio economic survey.	7

Suggested Readings:

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 SC,(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.

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.

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(Annexure-3)

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CCS UNIVERSITY, MEERUT

Bachelor in Arts

Subject- Geography

Proposed Outlines and Structures

Year	Sem.	Course Code	Paper Title	Suggested Title	Theory/ Practical	Credits
1	I	A110101 T	Physical Geography	Physical Geography	Theory	4
1	I	A110102 P	Elements of Map and Surveying	Map- Elements, Reading and Interpretation	Practical	2
1	II	A110201 T	Human Geography	Human Geography	Theory	4
1	II	A110202 P	Thematic Mapping and Surveying	Thematic Weather and Geological Maps	Practical	2
2	III	A110301 T	Environment, Disaster Management and Climate Change	Geography Of India	Theory	4

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2	III	A110302 P	Statistical Techniques and Surveying	Statistical and Quantitative Techniques in Geography	Practical	2
2	IV	A110401 T	Economic Geography	Economic Geography	Theory	4
2	IV	A110402 P	Weather Maps, Geological Maps and Surveying	Surveying	Practical	2
3	V	A110501 T	Regional Geography	Regional Development and Planning	Theory	4
3	V	A110502 T	Basics of Remote Sensing and GIS	Basics of Remote Sensing and GIS	Theory	4
3	V	A110503 R	Tour and Tour report	Tour and Tour report (Study/ Educational)	Practical	2
3	V	A110504 R	Project Report-1	Project Report-1 (Based on primary data through field survey)	Practical	3

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3	VI	A110601 T	Geography of India	Environment and Sustainability	Theory	4
3	VI	A110602 T	Evolution of Geographical Thoughts	Evolution of Geographical Thoughts	Theory	4
3	VI	A110603 P	Remote Sensing and GIS	Remote Sensing and GIS	Practical	2
3	VI	A110604 R	Project Report-2	Project Report-2 (Based on Field Survey or Secondary Source Data with The Help of RS And GIS	Practical	3

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