

Deccan Education Society's

**Kirti M. Doongursee College of
Arts, Science and Commerce
(AUTONOMOUS)**



Affiliated to

UNIVERSITY OF MUMBAI

Syllabus for
Program: Bachelor of Arts
Course: F.Y.B.A
Subject: **GEOGRAPHY**

Choice Based Credit System (CBCS)
with effect from
Academic Year 2024-2025

PROGRAM OUTCOMES

PO	Description
	A student completing Bachelor's Degree in Arts Program will be able to
PO1	Disciplinary Knowledge: Demonstrate a blend of conventional discipline knowledge and its applications to the modern world. Execute strong theoretical and practical understanding generated from the chosen program.
PO2	Critical Thinking and Problem solving: Exhibit the skill of critical thinking and use higher order cognitive skills to approach problems situated in their social environment, propose feasible solutions, and help in its implementation.
PO3	Social competence: Express oneself clearly and precisely to build good interpersonal relationships in personal and professional life. Make effective use of linguistic competencies to express themselves effectively in real and virtual media. Demonstrate multicultural sensitivity in group settings.
PO4	Research-Related Skills: Seeks opportunity for research and higher academic achievements in the chosen field and allied subjects and is aware about research ethics, intellectual property rights and issues of plagiarism. Demonstrate a sense of inquiry and capability for asking relevant/appropriate questions; ability to plan, execute and report the results of a research project be it in field or otherwise under supervision.
PO5	Personal and professional competence: Equip with strong work attitudes and professional skills that will enable them to work independently as well as collaboratively in a team environment.
PO6	Effective Citizenship and Ethics: Demonstrate empathetic social concern and equity centered national development; ability to act with an informed awareness of moral and ethical issues and commit to professional ethics and responsibility.
PO7	Environment and Sustainability: Understand the impact of scientific solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
PO8	Self-directed and Life-long learning: Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

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Kirti M. Doongursee College (autonomous) Proposed

**Curriculum as per NEP 2020 Year of implementation-
2024-25.**

Name of the Department: Geography

Semester	Course Code	Course Title	Vertical	Credit
I	K23UAGEOMJ111	Geography of Human and Cultural Landscape	Major	4
	K23UAGEOVC141	Basics of Remote Sensing	VSC	2
II	K23UAGEOMJ211	Principles of Geomorphology	Major	4
	K23UAGEOOE231	Geo- Tourism	OE	2
	K23UAGEOVC241	Statistical Techniques in Geography	VSC	2

Course Code	MAJOR SEM – I	Credits	Lectures /Week
K23UAGEOMJ111	Paper I: Geography of Human and Cultural Landscape	4	4
Course Outcomes:			
After successful completion of this course, students would be able to			
<ul style="list-style-type: none"> • Learner will understand basic concepts of human geography and will be able to describe subject evolution. • Learner will be able to elucidate different branches of human geography such as economics-geography, social geography, etc. • Learner will be introduced to settlement geography, its concepts, types of settlement, classification, etc. • It will help learner to construct thematic maps by using various map techniques in the field of research. • Learner will gain information related to human geography that will help them to execute in various competitive examinations. 			
Unit	Topics	No of Lectures	
I	Human Geography: An Introduction <ul style="list-style-type: none"> • Human Geography - Meaning, Definition, Nature, Scope Branches of Human Geography • Different Approaches of Human Geography • Man, Environment relation, Determinism Possibilism, Probabilism • Space and Society: World Cultural Regions; Race; Tribes, Religion and Language. 	15	
II	Settlement <ul style="list-style-type: none"> • Concept of Rural and Urban Settlements • Types and Pattern of settlement, Trends and Patterns of World Urbanization. • Site and Situation; and factors affecting location of Settlement. • Functional classification of Rural and Urban settlement 	15	
III	Migration <ul style="list-style-type: none"> • Concept and Types of Migration • Causes and Consequences of migration – pull and push factors. • Emerging trends of migrations or Issues of legal and 	15	

	illegal international migration • Case study of Migrant refugee/infiltration crisis	
IV	Practical • Map - Definition, Components, Type, and Importance • Map scale - Definition, Verbal Scale and Graphical Scale • Construction of Choropleth Maps, Isopleth, Dot, and Flow Maps Construction of Population Pyramid	15

References:

- Human Geography – Dr. Dipesh Karmarkar
- मानवी भूगोल - डॉ. समीर बुटाला आणि प्रा. डॉ दीपक नारखेडे
- मानवी भूगोल - डॉ. राजेन्द्र परमार

Additional References:

1. Johnson R. J. & Others (1983): The Dictionary of Human Geography, Blackwell England
2. Singh, L. R. (2009): "Fundamentals of Human Geography", Sharda Pustak Bhavan, Allahabad
3. Hussain, M. (2011): "Human Geography", Rawat Publications, Jaipur
4. Dixit R. D. (1997): "Geographical Thought: A Contextual History of Ideas", PHI Learning Private Limited, Delhi
5. Singh, R. Y. (2002): "Geography of Settlements", Rawat Publications, Jaipur
6. Siddhartha, K. and Mukherjee, S. (2016): "Cities, Urbanisation and Urban Systems", KitabMahal, Delhi
7. Chandna, R. C. (2016): "Geography of Population: Concepts, Determinants and Patterns", Kalyani Publishers, Ludhiana
8. Bhende, A. and Kanitkar, T. (2015): "Principles of Population Studies", Himalaya Publishing House, Mumbai
9. Koser, K. (2007): "International Migration: A Very Short Introduction", Oxford University Press, UK
10. Castles, S., Haas, H., and Miller, M. (2013): "The Age of Migration: International Movements in the Modern World", Guilford Pr.
11. Leong, G. C. and Morgan, G. C. (1982): "Human and Economic Geography", Oxford University Press, Delhi
12. Knowles, R. and Warding, J. (2012): "Economic and Social Geography", Rupa and Co., Kolkata
13. Waugh, D. (2009): "The New Wider World", Oxford University World, Oxford
14. Mahmood, A. (2008): "Statistical Methods in Geographical Studies", Rajesh Publications, New Delhi
15. Singh, L. R. (2009): "Fundamentals of Practical Geography", Sharda Pustak Bhavna, Allahabad

Course Code	VOCATIONAL SKILL COURSE SEM – I	Credits	Lectures /Week
K23UAGEOVC141	Basics of Remote Sensing	2	2

Course Outcomes:

After successful completion of this course, students would be able to

- **Understanding of the basic principles of remote sensing, including electromagnetic radiation, spectral signatures, and image interpretation.**
- **Ability to interpret aerial and satellite images using basic remote sensing techniques and software.**
- **Knowledge of the applications of remote sensing in various fields, such as environmental monitoring, land use planning, and disaster management.**
- **Familiarity with the different types of remote sensing platforms and sensors, as well as their strengths and limitations.**
- **Critical thinking skills to evaluate the accuracy and reliability of remote sensing data and analysis.**
- **Understanding of the ethical issues related to the use of remote sensing data and the importance of data privacy and security.**

Unit	Topics	No of Lectures
I	Introduction to Remote Sensing <ul style="list-style-type: none"> • Definition and principles of remote sensing • Electromagnetic radiation and the electromagnetic spectrum • Platforms and sensors used in remote sensing. • Spatial, spectral, radiometric, and temporal resolutions • Data acquisition, processing, and interpretation 	15
II	Remote Sensing Applications <ul style="list-style-type: none"> • Image interpretation techniques • Digital image processing and analysis • Mapping land cover and land use • Environmental monitoring and change detection • Applications in agriculture, forestry, water resources, and urban planning 	15

References:

- **"Remote Sensing and Image Interpretation" by Thomas Lillesand, Ralph W. Kiefer, and Jonathan W. Chipman**
- **"Introduction to Remote Sensing" by James B. Campbell and Randolph H. Wynne**
- **"Remote Sensing: Principles and Interpretation" by Floyd F. Sabins Jr.**
- **"Fundamentals of Remote Sensing" by Emilio Chuvieco and Alfredo Huete**

Online References:

- **NASA Remote Sensing Tutorial:**
<https://earthobservatory.nasa.gov/features/RemoteSensing>
- **European Space Agency Remote Sensing:**

https://www.esa.int/Applications/Observing_the_Earth/Remote_sensing

- **USGS Remote Sensing:**

[https://www.usgs.gov/core-science-systems/national-geospatial-program/remot
e-sensing](https://www.usgs.gov/core-science-systems/national-geospatial-program/remot-e-sensing)

- **Remote Sensing and GIS Resources:**

<http://www.gisresources.com/remote-sensing-gis-resources/>

Course Code	MAJOR SEM – II	Credits	Lectures /Week
K23UAGEOMJ211	Paper I: Principles of Geomorphology	4	4
<p>Course Outcomes:</p> <p>After successful completion of this course, students would be able to</p> <ul style="list-style-type: none"> • Understand the nature and scope of geomorphology, key concepts, and the systems approach to studying landforms. • Apply knowledge of the Earth's interior structure to explain the processes that shape the Earth's surface. • Evaluate and compare different types of earth movements, including isostasy, plate tectonics, folds, faults, earthquakes, and volcanoes. • Analyze and interpret the processes of weathering, mass wasting, and the cycle of erosion (as proposed by Davis and Penck). • Analyze and interpret the evolution of different types of landforms, including fluvial, karst, aeolian, glacial, and coastal, both in terms of their erosional and depositional processes. • Apply knowledge of geomorphological processes to real-world scenarios, including environmental management, disaster mitigation, and resource exploration. • Communicate effectively about geomorphological concepts and processes in written and oral formats. • Apply critical thinking and problem-solving skills to address real-world geomorphological issues and challenges. 			
Unit	Topics	No of Lectures	
I	<p>Introduction to Geomorphology</p> <ul style="list-style-type: none"> • Definition and scope of geomorphology • Basic Key concepts in geomorphology • Geological Time Scale • Earth's interior structure and its influence on landforms 	15	
II	<p>Earth Movements and Tectonic Processes</p> <ul style="list-style-type: none"> • Isostasy and its role in earth movements • Continental drift theory, Plate tectonics and its influence on landforms • Exogenetic forces: Types of folds and faults • Endogenetic forces: Earthquakes and volcanoes 	15	
	Geomorphic Processes and Evolution of Landforms	15	

III	<ul style="list-style-type: none"> ● Weathering processes and their impact on landforms ● Types of mass wasting and their role in shaping landforms ● Davis and Penck's cycle of erosion ● Erosion and sediment transport, Erosional and depositional processes of fluvial, karst, aeolian, glacial, and coastal landforms 	
IV	<p style="text-align: center;">Practical</p> <ul style="list-style-type: none"> ● Method of Showing Relief: Hachure, hill shading, Interpolation, contour, form line, and layer tints ● Drawing of contours and their cross section of slope elements, and fluvial, wind, coastal landforms. Identification of drainage pattern from the 1:50,000 toposheets. ● Visit to Geomorphic features sites. 	15

References:

- 1. Bloom, A. L., (2003): Geomorphology: A Systematic Analysis of Late Cenozoic Landforms, Prentice-Hall of India, New Delhi.
- 2. Bridges, E. M., (1990): World Geomorphology, Cambridge University Press, Cambridge.
- 3. Christopherson, R. W. and Birkeland, G. H., (2012) Geosystems: An Introduction to Physical Geography (8th edition), Pearson Education, New Jersey.
- 4. Das Gupta, A and Kapoor, A.N., (2001) Principles of Physical Geography, S.C. Chand & Company Ltd. New Delhi.
- 5. Dayal, P., (1996) A Text book of Geomorphology. Shukla Book Depot, Patna.
- 6. Huggett, R.J. (2007) Fundamentals of Geomorphology, Routledge, New York.
- 7. Kale, V. S. and Gupta A., (2001): Introduction to Geomorphology, Orient Longman, Hyderabad.
- 8. Khullar, D.R., (2012) Physical Geography, Kalyani Publishers, New Delhi.
- 9. Mal, Suraj, Singh, R.B. and Huggel, Christian (2018): Climate Change, Extreme Events and Disaster Risk Reduction, Springer, Switzerland, pages 309.
- 10. Selby, M.J., (2005): Earth's Changing Surface, Indian Edition, OUP
- 11. Singh, S (2009): Bhautik Bhugolka Swaroop (Hindi), Prayag Pustak, Allahabad.
- 12. Skinner, Brian J. and Stephen C. Porter (2000), The Dynamic Earth: An Introduction to Physical Geology, 4th Edition, John Wiley and Sons.
- 13. Strahler, A. H. and Strahler, A N., (2001): Modern Physical Geography (4/E), John Wiley and Sons, Inc., New York.
- 14. Summerfield M. A. (2013): Global Geomorphology, Routledge, New York
- 15. Thornbury, W. D., (2004): Principles of Geomorphology, Wiley, New York.
- 16. Tikka, R N (1989): Bhautik Bhugolka Swaroop (Hindi), Kedarnath Ram Nath, Meerut

Course Code	OPEN ELECTIVE SEM – II	Credits	Lectures /Week
K23UAGEOOE231	Geo-tourism	2	2

Course Outcomes:

After successful completion of this course, students would be able to

- **Explain the concepts of geo-tourism, geodiversity, and geo-tourism sustainability, and the principles and practices associated with them.**
- **Analyze the socio-economic and environmental impacts of geo-tourism and identify ways to mitigate negative impacts and enhance positive ones.**
- **Evaluate the role of geoparks, geological and geomorphological sites, and natural and cultural landscapes in promoting sustainable geo-tourism.**
- **Analyze the key stakeholders involved in geo-tourism and understand the importance of collaboration and partnerships for sustainable geo-tourism development.**
- **Develop skills in geo-tourism planning and management, including site selection, visitor management, and interpretation.**
- **Use technology and multimedia tools to design innovative and engaging geo-tourism experiences.**
- **Understand the ethical and cultural considerations associated with geo-tourism, including respect for indigenous knowledge and cultural heritage.**
- **Evaluate case studies of successful and unsuccessful geo-tourism initiatives, and apply lessons learned to future geo-tourism projects.**

Unit	Topics	No of Lectures
I	Introduction to Geo-tourism <ul style="list-style-type: none"> • Definition, concepts, and principles of geo-tourism • Overview of geodiversity and its significance in tourism • Historical and cultural aspects of geo-tourism • Socio-economic and environmental impacts of geo-tourism • Geo-tourism sustainability and responsible tourism practices 	15
II	Geo-tourism Planning and Management <ul style="list-style-type: none"> • Geoparks and geo-tourism destinations • Site selection, visitor management, and interpretation • Geo-tourism marketing and promotion • Role of stakeholders in geo-tourism development • Use of technology and multimedia tools in geo-tourism 	15

References:

- **Farsani, N. T., Coelho, C. O., & Costa, C. A. (Eds.). (2014). Geoheritage and Geotourism: A European Perspective. Springer.**

- Dowling, R. K., & Newsome, D. (Eds.). (2006). **Geotourism: The Tourism of Geology and Landscape**. Goodfellow Publishers.
- Newsome, D., & Dowling, R. K. (2010). **Geotourism: The Tourism of Geology and Landscape** (2nd ed.). Goodfellow Publishers.
- Staszak, J. F. (Ed.). (2018). **Geotourism: An Emerging Sector in Tourism**. CABI.

Online References:

- Global Geoparks Network: <http://www.globalgeopark.org/>
- The International Association of Geotourism: <https://www.iageotourism.com/>
- United Nations World Tourism Organization: <https://www.unwto.org/>
- The International Ecotourism Society: <https://www.ecotourism.org/>

Course Code	VOCATIONAL SKILL COURSE SEM – II	Credits	Lectures /Week
K23UAGEOVC241	Statistical Techniques in Geography	2	2

Course Outcomes:

After successful completion of this course, students would be able to

- **Understand the importance of statistical methods in Geographical studies.**
- **Learn data collection, tabulation, analysis and prediction.**
- **Analyze settlements for various town planning methods.**
- **Analyse different elements of relief.**
- **Learn to perform statistical tests.**

Unit	Topics	No of Lectures
I	Data: <ul style="list-style-type: none"> ● Meaning, and Types, ● Collection of data, ● Sampling Techniques and Methods, ● Measures of central tendency: Mean, Mode, and Median. 	15
II	Measures of dispersion: <ul style="list-style-type: none"> ● Mean Deviation ● Quartile Deviation ● Standard deviation ● Correlation ● Karl Pearson's and Spearman's methods. 	15

References:

1. **Birch, T.W. (1976). Maps: Topographical and Staistica. Oxford University Press. London.**
2. **Downie, N.M and Heath, R.W. Basic Statistical Methods (1970). Harper and Row. New York**
3. **Gregory, S (2014). Statistical Methods and the Geographer. Taylor and Francis. London.**
4. **Singh, L. R. (2006). Fundamentals of Practical Geography. Sharda Pustak Bhawan,Allahabad.**
5. **Singh, R.L. &Singh, Rana P.B. (1993). Elements of Practical Geography (Hindi & English Editions), Kalyani Publishers, New Delhi.**

Evaluation Scheme for First Year (UG) under NEP (4 credits)

I. Internal Evaluation for Theory Courses – 40 Marks

1) Continuous Internal Assessment (CIA) Assignment –

Tutorial/ Case Study/ Project /Presentations/ Group Discussion / Ind. Visit. – 20 marks

2) Continuous Internal Assessment (CIA) ONLINE Unit Test – 20 marks

II. External Examination for Theory Courses – 60 Marks

Duration: 2 Hours

Theory question paper pattern:

Question	Based on	Marks
Q.1	Unit I	15
Q.2	Unit II	15
Q.3	Unit III	15
Q.4	Unit IV	15

- All questions shall be compulsory with internal choice within the questions.
- Each Question may be subdivided into sub questions as a, b, c, d, etc. & the allocation of Marks depends on the weightage of the topic.

NOTE: To pass the examination, attendance is compulsory in both Internal & External (Theory + Practical) Examinations.

Evaluation Scheme for First Year (UG) under NEP (2 credits)

I. Internal Evaluation for Theory Courses – 20 Marks

1) Continuous Internal Assessment (CIA) Assignment - Tutorial/ Case Study/ Project /Presentations/ Group Discussion / Ind. Visit. – 10 marks

2) Continuous Internal Assessment (CIA) ONLINE Unit Test – 10 marks

II. External Examination for Theory Courses – 30 Marks

Duration: 1 Hours

Theory question paper pattern: All questions are compulsory.

Question	Based on	Marks
Q.1	Unit I	15
Q.2	Unit II	15

- All questions shall be compulsory with internal choice within the questions.
- Each Question may be subdivided into sub questions as a, b, c, d, etc. & the allocation of Marks depends on the weightage of the topic.

NOTE: To pass the examination, attendance is compulsory in both Internal & External (Theory + Practical) Examinations