

FYBCOM

ENVIRONMENTAL STUDIES-I COURSE CODE: UGEVS 101

COURSE OUTCOMES: After completion of the course, learners will be able to:

1. Better understanding of relationship between environment and Commerce.
2. Awareness about various environmental issues and their implications for environment and society
3. Understanding of the need to follow sustainable agriculture and industrial practices especially in India
4. Adoption of environment friendly habits and responsible behavior in use of resources like water, electricity.
5. Understand the urbanization and environment.
6. Read the thematic maps and fill the world map.

ENVIRONMENTAL STUDIES-II COURSE CODE: UGEVS 201

1. Understand the solid waste management and role of society in solid waste management.
2. Understanding the environmental problems associated with agriculture and sustainable agricultural practices.
3. Understand the Tourism potentials and challenges before India.
4. Understand the environmental movements and environmental management in India.
5. Able to fill the environmentally significant features in Mumbai and Konkan region

FYBA

ENVIRONMENTAL SCIENCE-I COURSE CODE: UGES 101

Course Outcome:

1. Define the environment, Ecosystem Ecological Concepts and the role of human beings in shaping the environment.[1]
2. Understand various components of the environment and interfaces. [2]
3. Articulate attributes of natural resource and management. [3]
4. Critically examine the gap in the resource availability, use, and conservation[4]
5. Estimate biodiversity and its vital role in ecosystem function [5]

ENVIRONMENTAL SCIENCE-II
COURSE CODE: UGES 201

Course Outcome:

1. Identify the case specific issues related to pollution potentials of solid wastes [1]
2. Understand the characteristic of wastes and the systems, and processes of waste management.[2]
3. Express the conclusions form environmental movements, environmental legislations [6].

FUNDAMENTALS OF GEOMORPHOLOGY
COURSE CODE: UG GEO 101

Course Outcome:

Knowledge Gained:

- Study landforms and the related processes from the traditional concept to the contemporary development in Geomorphology
- Gain in-depth knowledge on the influence of various types of rocks on the development and evolution of the landforms; hydrologic characteristics of an open channel flow that produce erosional and depositional landforms; form process interaction in the landform development and some modern methods of geomorphic analysis of the landforms through the concept of geomorphic threshold, geochronological methods and extreme events and equilibrium

Skill Gained:

- The skill for understanding the landform in a systematic way

Competency Developed:

- To cope up with continuous progress in geomorphology.

HUMAN GEOGRAPHY
COURSE CODE: UG GEO 201

Course Outcome: This course will enable students to

1. Correlate the Earth processes and Human evolution.
2. Understand the consequences of Human interference in natural processes.
3. Estimate the trends, patterns and impacts of World Population Changes
4. Application of settlement patterns in planning
5. Knowledge of Human activities and their effects

SYBA

PHYSICAL GEOGRAPHY OF INDIA COURSE CODE: UG GEO 301

Course Outcome:

1. Interpret the physiographical divisions of India with their characteristics.
2. Analyze the drainage system in India.
3. Recognize the major Himalayan rivers, prepare a list according to length, source etc.
4. Outline the problems associated with soils and suggest remedial measures.
5. Develop the methods for conservation of minerals and resources in India.

Introduction to Geographic Information System and Global Positioning System Course Code: UG GEO 302

Course Outcomes: On successful completion of this course, the students will be able to -

1. Comprehend knowledge about the concepts in GIS.
2. Articulate the various types of GIS data.
3. Devise GPS ground survey and map
4. Acquire skills of map making using GIS.
5. Design the various map and conclude solution

AGRICULTURAL GEOGRAPHY OF INDIA COURSE CODE: UG GEO 401

Course Outcome:

1. To educate students about nature, scope and significance of agricultural geography as an academic and professional discipline.
3. To get knowledge about irrigation and agricultural systems in the India.
4. To understand the agrarian revolution, socio-economic constraints, agricultural problems and policies.
5. To understand the fundamental concept, crop Concentration, diversification, and combination and study the thematic maps related to agriculture of India

APPLIED COURSE OF TRAVEL & TOURISM
COURSE CODE: UG GEO 402

Course Outcome:

1. Students will be able to perform online as well as offline booking and cancellation procedures for different available modes of travel and tourism.
2. Students will be able to acquire earning skills in tourism industry.

TYBA

Geospatial Technology
COURSE CODE: UG GEO 501

Course Outcome:

Students will acquire the basics of GIS and will use GIS to:

1. Comprehend knowledge about the concepts in GIS, GPS and Remote Sensing.
2. Relate GIS with remote sensing technologies.
3. Devise GPS ground survey and map.
4. Analyze spatial data, using GIS analysis tools.
5. Apply SAGA GIS and QGIS software.
6. Create maps, images and apps to communicate spatial data in a meaningful way to others.

GEOGRAPHY OF MAHARASHTRA
COURSE CODE: UG GEO 503

Course Outcome:

- Understand the Geographical Setting of Maharashtra
- Understand the natural resources and human resources
- Study of agricultural regions, recent issues and policies
- Get knowledge of major industrial regions

**TOOLS AND TECHNIQUES IN GEOGRAPHY FOR SPATIAL
ANALYSIS-I (Practical)**
COURSE CODE: UG GEO 503

Course Outcome:

1. Learn to use various Projections and Cartographic Techniques.
2. Get acquainted with basic of Statistical data.
3. Understand the principles of surveying, its importance and utility in the geographical study.

REGIONAL PLANNING AND DEVELOPMENT
Discipline Specific Elective (DSE)
COURSE CODE: UG GEO 504

Course Outcome:

1. To understand meaning and concept of Region, its types and problem associated with region.
2. Analyze region with respect to Geography, its Nature, Characteristics and Hierarchy.
3. Understanding Regional development, its concept, indicators and methods of measuring regional development.
4. Outlining Features, achievements and failure of regional planning.
5. Analysing micro level planning, the concept of urban fringe, its planning and problem associated with it.

GEOGRAPHY OF SETTLEMENTS
Discipline Specific Elective (DSE)
COURSE CODE: UG GEO 505A

COURSE OUTCOMES

- Acquire knowledge about Rural settlements- Definition, nature and characteristics (1)
- Analyse the morphology of rural settlements. (4)
- Learn the census categories of rural settlements and idea of social segregation. (1)
- Application of GIS in development of smart city (3)
- Implement the knowledge to develop ADARSH VILLEGE. (3)

POLITICAL GEOGRAPHY
Discipline Specific Elective (DSE)
COURSE CODE: UG GEO 505B

Course Outcome:

- Student will understand the history and development of political geography.
- Get knowledge about evaluation of state and nation.
- Get knowledge of Geo-political theories..
- Investigates problems and disputes of India with the most current research topics in political geography

GEOGRAPHY OF HEALTH
Generic Elective (GE)
COURSE CODE: UG GEO 506

Course Outcome:

- Understand Relation of geography of health with other branches. (1)
- Describe the geographical aspects of disease diffusion.(2)
- Analyse the differences between communicable diseases non-communicable diseases.(4)
- Understand the Health Care Facilities (1)
- Knowledge about Pollution Syndrome(1)
- Understand the changing and future directions of the geography of health.(1)

RESEARCH METHODOLOGY
(Skill Enhancement Course)
COURSE CODE: UG GEO 601

Course Outcome:

- To understand the concepts in research methodology.
- To give basic information to the students about research.
- To get familiar with principles and techniques of research.
- To understand the process and value of geographical research.
- To develop skills for applying ICT in geography.
- To aware the students research methodology with recent technology

ECONOMIC GEOGRAPHY
Discipline Specific Elective (DSE)
COURSE CODE: UG GEO 602

Course Outcome:

- To gain the knowledge of economic geography and resources.
- To understand the economic activity.
- To gain knowledge about minerals and industries.
- To understand the transport system and international trade.
- To understand the economic development of India.

GEOGRAPHY OF TOURISM and RECREATION

Discipline Specific Elective (DSE)

COURSE CODE: UG GEO 604

Course Outcome:

- Understand the history of tourism
- Understand the types of tourism
- Study of new trends of tourism
- Get knowledge of tourism law

BIOGEOGRAPHY

Discipline Specific Elective (DSE)

COURSE CODE: UG GEO 605A

Course Outcome:

- Understand the varied ecosystems and classify them.
- Recognize the significance of biodiversity.
- Identify the devastating impact of Biodiversity loss.
- Students will be able to discuss about ecosystem.
- They can identify Plant Community

GEOGRAPHY OF RESOURCES

COURSE CODE: UG GEO 605B

- Define what is resources and its types
- Demonstrate understanding of facts and ideas by organizing nature and scope of resources.
- Solve issues related to resource consumption.
- Classify the interdependence of resources and humans.

ENVIRONMENTAL GEOGRAPHY

Generic Elective (GE)

COURSE CODE: UG GEO 606

Course Outcome:

- To get the knowledge about nature, scope and importance of Environmental Geography.
- To understand about ecosystem
- To acquire knowledge about biodiversity.
- To understand environmental problems there Cause, Effect and Remedies.
- To adapt knowledge about Sustainable Development and Environmental Management
- To understand the various environmental protection acts

MA PART- I

PRINCIPLES OF GEOMORPHOLOGY COURSE CODE: PGGEO101

Course Outcome: After the completion of course, the students will have ability to:

1. Understand the functioning of Earth systems in real time and analyze how the natural and anthropogenic operating factors affect the development of landforms. [1]
2. Distinguish between the mechanisms that control these processes. [4]
3. Assess the role of structure, stage and time in shaping the landforms. [5]
4. Interpret geomorphological maps and apply the knowledge in geographical research. [6]

Principles of Climatology

COURSE CODE: PGGEO102

Course Outcome: After the completion of course, the students will have ability to:

1. Understand the elements of weather and climate and its impacts at different scales. [2]
2. Explain the thermodynamic process of atmosphere. [4]
3. Analyze the global distribution of climatic phenomena [6]
4. Predict the behaviour of climatic parameters. [5]

RESEARCH METHODOLOGY

COURSE CODE: PGGEO103

Course Outcome:

1. Demonstrate the ability to choose methods appropriate to research aims and objectives
2. Understand the limitations of particular research methods
3. Develop skills in qualitative and quantitative data analysis and presentation
4. Develop advanced critical thinking skills
5. Demonstrate enhanced writing skills

TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- I

(Practical Paper)

COURSE CODE: PGGEO104A

Course Outcome:After successfully completion of this course, the students will be able to ...

1. Generate the longitudinal, Composite and Projected profile with the help of contour maps.[6]
2. Construct the diagrams for the altimetric analysis and justify the answers.[6]
3. Understand the physical and chemical properties of Soil. [2]
4. Evaluate the climatic data using statistical techniques. [5]

URBAN GEOGRAPHY
COURSE CODE: PGGEO104B

Course Outcome:After successfully completion of this course, the students will be able to ...

1. Explain the demographic, economic and social aspects and understand the urbanization trends, urban sprawl, fringes of urban geography.[2]
2. Compare and contrast the concept of Industrialization, political economy of urbanization with their characteristics. [4]
3. Compare and contrast the concept of Industrialization, political economy of urbanization with their characteristics. [4]
4. Determine the elements of city plan and prepare the master plan. [6]

Introduction to Geographic Information System and Global Positioning System

COURSE CODE: PGGEO105

Course Outcomes: On successfully completion of this course, the students will able to -

1. Comprehend knowledge about the concepts in GIS.
2. Differentiate Raster and Vector data
3. Understand the basic elements of Map
4. Compose Thematic maps using GIS.

ECONOMIC GEOGRAPHY
COURSE CODE: PGGEO201

Course Outcome: After successfully completion of this course, the students will be able to ...

1. Explain the concept of manufacturing, growth and development of industrial geography. [2]
2. Apply the approaches of economic geography. [3]
3. Analyze the world energy condition with examples. [4]
4. Predict the energy crisis of the world with examples. [6]
5. Explain the role of regional trade blocks in the economic development.[2]

Population Geography
COURSE CODE: PGGEO202

Course Outcome:

1. Understand the distribution patterns of population on global and regional scale. [2]
2. Calculate fertility, mortality with the help of data. [6]
3. Illustrate the migration theories predict the migration process. [3][6]
4. Recognize the problems of urbanization and analyze the policies of urbanization. [2][4]
5. Explain the limits of growth, human development and gender equity. [2]

Research Methodology and Statistical Tools and Techniques for Data Analysis

COURSE CODE: PGGEO 203

Course Outcome:

1. Understand the fundamentals of statistical techniques of correlation and regression analysis. [2]
2. Apply sampling techniques in geographical analysis. [4]
3. Test the hypothesis for research problem. [4]

Tools and Techniques of Spatial Analysis- II

COURSE CODE: PGGEO204A

Course Outcome:

1. Generate the locations map of mean, median center in particular place and analyze the results. [6]
2. Prepare the matrices table with the help of minimum aggregate distance and calculate accessibility and connectivity. [6]
3. Distinguish between Aspatial and spatial data. [4]
4. According to the geographical data, select the appropriate diagram / graph/image/ picture. [5]

SOCIAL- CULTURAL GEOGRAPHY

COURSE CODE: PGGEO 204B

Course Outcome:

1. Discuss the basic elements of society and culture in geography.[2]
2. Assess the process social; change through modernization, sanskritization and globalization.[5]
3. Illustrate the theories of distribution of race and classify the racial groups along with physical characteristics.[3]
4. Compare and contrast social development and well-being. [4]
5. Identify the levels and indicators for measuring social well-being.[2]

APPLIED COURSE OF TRAVEL & TOURISM

COURSE CODE: PGGEO205

Course Outcome:

1. Students will be able to perform online as well as offline booking and cancellation procedures for different available modes of travel and tourism.
2. Students will be able to acquire earning skills in tourism industry.

MA PART -II

OCEANOGRAPHY AND HYDROLOGY (CORE COURSE) COURSE CODE: PGGEO 301

Course Outcome:

The learner will be able to-

1. Explain the definition, nature and scope of oceanography and understand the history of oceanography.[2]
2. Generate the distribution of temperature and salinity of ocean and predict the distribution of salinity and temperature. [6]
3. Illustrate the water budget with the help of diagram and prepare a table of world water resources available.[3]
4. Explain the world water balance and identify the how much amount of fresh water resources available on the earth's surface.[2]
5. Discuss the topographical, meteorological factors that effect on evaporation process.[2]

GEOGRAPHICAL THOUGHTS (CORE COURSE) Course code (PGGEO 302)

Course Outcome:

- To define the geographical thoughts.
- To describe the contribution of modern geographers.
- To solve the paradigms and philosophy in geography.
- To examine laws theories and models in geography.
- To judge the major approaches in geography
- To assemble laws and theories in geography

TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS- III COURSE CODE: PGGEO 303

Course Outcome:

The learner will be able to-

1. Reproduce the data in SPSS software and apply the process and calculate quantitative techniques.[6]
2. Formulate the hypothesis and justify the hypothesis with the help of chi-square, T-test and ANOVA by using SPSS software.[6]

3. Explain the concept, types and methods of correlation and regression in terms of SPSS.[2]
4. Collect the primary data from different sources and determine the spatial variation.[3]
5. Prepare the study tour report and submit to the department. [6]

GEOGRAPHY OF TRIBES WITH SPECIAL REFERENCE TO INDIA

COURSE CODE: PGGEO 304A

Course Outcome:

The students will be able to

1. Define the Tribes, and explain the origin culture and family system, organization and its functions
2. Explain the tribal economy, and poverty, social status of tribal communities.
3. Describe the Tribal communities Development, tribal cultures and practices.
4. Elucidate the Territorial Distribution of Tribes in India
5. Elucidate Scheduled Areas and Role Tribal National of Movement, Pattern and trends of Tribal Development
6. Explain the approaches and Tribal Development Policies of Tribal study

SOCIAL- CULTURAL GEOGRAPHY

COURSE CODE: PGGEO 304B

Course Outcome:

1. To study and identify the philosophical base, problems associated with society & its Culture
2. To know about the culture, cultural regions, hearths and their diffusion, realms, and distribution of races.
3. To study and knowing of socio-cultural diversity of India, and processes of social changes.
4. To understand the social justice and well-being of society, to find out the level of well-being in India.

Remote Sensing and Global Navigation Satellite System

COURSE CODE: PGGEO 305

Course Outcome:

On successfully completion of this course, the students will able to -

1. Explain the basics of Remote Sensing, Aerial photography and Photogrammetry.[2]
2. Interpret the satellite image visually with the help of color composites. [3]

3. Calculating Height from Stereo-pairs [4]
4. Create database with the help of GPS device.[5]
5. Understand the principles of Positional Accuracies, Relative Positioning, errors and sources in GPS surveys. [4]

APPLICATIONS OF REMOTE SENSING TECHNIQUES IN GEOGRAPHICAL STUDIES

COURSE CODE: PGGEO401

Course Outcome:

On successfully completion of this course, the students will able to -

1. Discuss about the Concept of stereoscopy and photogrammetry, geometric types of aerial photographs.[2]
2. Calculate the photographic scale, measurements of distance, area and height, relief displacement, stereoscopic parallax, flight planning. [3]
3. Interpret and analyze the satellite Images visually and digitally with the help of display and colour composites [4]
4. Understand the basic principles, data processing and application of Hyperspectral remote sensing.[2]
5. Perform Resource monitoring like LULC mapping, Wetland mapping, Urban fringes mapping, Soil mapping and identifying the water resource potential zones.[5]

GEOGRAPHY OF DISASTER MANAGEMENT

COURSE CODE: PGGEO402

Course Outcome:

On successfully completion of this course, the students will able to -

1. Understand the basic of disaster management studies.[2]
2. Identify the cause, Impact and measures in different types of disasters. [3]
3. Students will be familiar with the Preparedness, Response, Recovery, Mitigation,

- Rehabilitation processes involved in disaster management. [3]
4. Able to understand the role of various organizations at global and national level.[2]
 5. Perceive the knowledge from the past to mitigate with the disaster situation [4]

GEOGRAPHY OF WATER RESOURCES MANAGEMENT

COURSE CODE: PGGEO404A

Course Outcome:

The learner will be able to-

1. Explain the significance of water and to understand the changing perspective in uses of water. [2]
2. Describe the role of government and NGOs in water management. [2]
3. Evaluate the national water policy and integrated water resources development. [5]
4. Predict the water politics in Maharashtra. [6]
5. Apply GIS technique for water management and sustainability. [3]

TOOLS AND TECHNIQUES OF SPATIAL ANALYSIS – IV

COURSE CODE: PGGEO404B

Course Outcome:

The learner will be able to-

1. Explain the meaning and measures of central tendency and calculate the mean centre, median centre and weighted mean. [4]
2. Identify the quantitative and qualitative data with the help of different techniques. [2]
3. Prepare the matrices table with the help of minimum aggregate distance and calculate accessibility and connectivity. [6]
4. Generate the required data and compilation of data by using different software for the analysis. [2]