REVISED UG SYLLABUS UNDER CBCS
(Implemented from Academic Year 2020-21)
PROGRAMME: FOUR YEAR B.Sc.,

Domain Subject: Geography

Skill Enhancement Courses (SECs) for Semester V, from 2022-23
(Syllabus-Curriculum)

Structure of SECs for Semester – V
(To choose One pair from the Four alternate pairs of SECs)

<table>
<thead>
<tr>
<th>Univ. Code</th>
<th>Course 6&amp;7</th>
<th>Name of the Course</th>
<th>Th. Hrs. / Week</th>
<th>IE Marks</th>
<th>EE Marks</th>
<th>Credits</th>
<th>Prac. Hrs./Wk</th>
<th>Marks</th>
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</tr>
</thead>
<tbody>
<tr>
<td>6A</td>
<td></td>
<td>Economic Geography</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>3</td>
<td>3</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>7A</td>
<td></td>
<td>Industrial Geography</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>3</td>
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<td>50</td>
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<th>Credits</th>
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<tbody>
<tr>
<td>6B</td>
<td></td>
<td>Environmental Geography</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>3</td>
<td>3</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>7B</td>
<td></td>
<td>Disaster Management</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>3</td>
<td>3</td>
<td>50</td>
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<tbody>
<tr>
<td>6C</td>
<td></td>
<td>Tourism Geography</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>3</td>
<td>3</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>7C</td>
<td></td>
<td>Resource Geography</td>
<td>3</td>
<td>25</td>
<td>75</td>
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<tr>
<td>6D</td>
<td></td>
<td>Agricultural Geography</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>3</td>
<td>3</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>7D</td>
<td></td>
<td>Remote sensing &amp; GIS</td>
<td>3</td>
<td>25</td>
<td>75</td>
<td>3</td>
<td>3</td>
<td>50</td>
<td>2</td>
</tr>
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</table>
Note-1: For Semester–V, for the domain subject Botany, any one of the four pairs of SECs shall be chosen as courses 6 and 7, i.e., 6A & 7A or 6B & 7B or 6C & 7C or 6D & 7D. The pair shall not be broken (ABCD allotment is random, not on any priority basis).

Note-2: One of the main objectives of Skill Enhancement Courses (SEC) is to inculcate field skills related to the domain subject in students. The syllabus of SEC will be partially skill oriented. Hence, teachers shall also impart practical training to students on the field skills embedded in the syllabus citing related real field situations.

**Course Outcomes:: Department of Geology**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Year</th>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Course Outcome Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>2021</td>
<td>6A</td>
<td>Economic Geography</td>
<td>Intro</td>
<td>Introduce the students to geographical mode of thinking in application various economic phenomena.</td>
</tr>
<tr>
<td>2.</td>
<td>2021</td>
<td>7A</td>
<td>Industrial Geography</td>
<td>Students</td>
<td>Students will get the knowledge of relation of industries, their geographical distribution and their significance</td>
</tr>
<tr>
<td>3.</td>
<td>2021</td>
<td>6B</td>
<td>Environmental Geography</td>
<td>A student</td>
<td>A student will learn about different processes of development and adoption triggered by the environmental prerogatives in distinct regions.</td>
</tr>
<tr>
<td>4.</td>
<td>2021</td>
<td>7B</td>
<td>Disaster Management</td>
<td>Students acquire</td>
<td>Students acquire knowledge on the nature of impacts, anthropogenic disasters, soil degradation and desertification, water and atmospheric pollution. Will get knowledge on disaster management plans.</td>
</tr>
<tr>
<td>5.</td>
<td>2021</td>
<td>6C</td>
<td>Tourism Geography</td>
<td>Students will be</td>
<td>Students will be able to evaluate the human cultural geographic resources and classes of tourism, historical resources on tourism.</td>
</tr>
<tr>
<td>6.</td>
<td>2021</td>
<td>7C</td>
<td>Resource Geography</td>
<td>Students will be</td>
<td>Students will be able to synthesize geographic knowledge and apply innovative strategies to solve problems in resource conservation, environmental</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>able to</td>
<td></td>
</tr>
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<td>Subject</td>
<td>Description</td>
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</tr>
<tr>
<td>7.</td>
<td>2021</td>
<td>6D Agricultural Geography</td>
<td>Students understand agriculture, study approaches applied in agriculture and understand the influence of physical, Economic and technological factors on agriculture patterns.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>2021</td>
<td>7D Remote sensing &amp; GIS</td>
<td>Students understand the principles of Remote Sensing, able to comprehend the energy interactions with earth surface features, spectral properties of various materials. Get the knowledge of application of GIS in mapping of various earth features.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
6A Economic Geography

Unit I
Meaning and approaches to Economic Geography, new Economic Geography. Goods and services, production, exchange and consumption. Concept of economic man, theories of choices. Economic distance and transport costs

Unit II
Concept and classification of economic activity, Factors Affecting location of Economic Activity with special reference to Agriculture, Location of Economic Activity: Von Thunen Theory and Weber’s theory.

Unit III
Primary Activities: Types and problems and agriculture, agricultural regions of the world, forestry and fishing.

Unit IV
Secondary Activities: Manufacturing (Cotton Textile, Iron and Steel), Regions of the world: Special Economic Zones and its significance.

Unit V
Tertiary Activities: Transport, Roads and Railways, Air and Water, Trade

Suggested readings

7A Industrial Geography

Unit I
Basic Concepts: Meaning and scope of industrial geography; Recent trends in industrial geography; Classification of industries.

Unit II
Concepts of industrialization, industrial complex and industrial estate; Role of industries in regional development.

Unit III
Location Factors and Theories: Factors of industrial location; Linkage in Industries; Theories of industrial location: Weber, Hoover, Lösch and Smith.

Unit IV
Spatial Arrangement of Industries: Localization and distribution of iron & steel, cotton textile and sugar industries; Bases of identification of industrial regions; Industrial regions of U.S.A. and West Europe.

Unit IV
Industrial development and policies; Industrial regions and complexes; Impact of globalization on industries; Problems of industrialization; Environmental impact of industrialization; Tourism as an industry; Tourism in Uttar Pradesh.

Suggested Readings
6B Environmental Geography

Unit I

Unit II

Unit III

Unit IV

Unit V

Suggested References

7B Disaster Management

Unit I
Introduction on Disaster Different Types of Disaster: A) Natural Disaster: such as Flood, Cyclone, Earthquakes, Landslides etc B) Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters, Accidents (Air, Sea, Rail & Road), Structural failures(Building and Bridge), War & Terrorism etc. Causes, effects and practical examples for all disasters.

Unit II

Unit III

Unit IV

Unit V
Rehabilitation, Reconstruction and Recovery - Reconstruction and Rehabilitation as a Means of Development. Damage Assessment, Post Disaster effects and Remedial Measures. Creation of Long-term Job Opportunities and Livelihood Options, Disaster Resistant House Construction, Sanitation and Hygiene, Education and Awareness, Dealing with Victims’ Psychology, Long-term Counter Disaster Planning - Role of Educational Institute.

Suggested References
1. Dr. Mrinalini Pandey Disaster Management Wiley India Pvt. Ltd.
4. J. P. Singhal Disaster Management Laxmi Publications.
5. Shailesh Shukla, Shamna Hussain Biodiversity, Environment and Disaster Management Unique Publications
6C Tourism Geography

Unit I
Meaning and Definition of tourism. Nature, Scope, Importance of tourism, Tourism as an interdisciplinary Subject. Recent Trends in Tourism Geography

Unit II

Unit III
Classification and Recent Concepts of Tourism. Classification on the basis of – Nationality, Time of travel Number of tourist, Purpose. Mode of transportation. Season, Nature of tourism.

Unit IV

Unit V

Suggested Readings

2. Bhatia A.K.: Tourism Development
3. Dev Manoj : India – A Tourist Paradise
4. Dhar Pramnath: Development of Tourism and Travel Industry
5. Gupta V.N.: Tourism in India
7C Resource Geography

Unit I

Unit II

Unit III

Unit IV
Distribution, Utilisation, Problems and Management of Non-Metallic Mineral Resources: Limestone, Mica, Gypsum, Barite, Asbestos.

Unit V

Suggested Readings

6D Agriculture Geography

Unit I
Basic Concepts: Meaning and scope; Approaches to study of agricultural geography; Origin and dispersal of agriculture; Role of agriculture on human society; Physical, cultural and institutional factors affecting agriculture.

Unit II
Agricultural Patterns: Agricultural type and typology; Subsistence, plantation, commercial and mixed farming; Crop concentration and crop diversification; Delineation of crop combination regions; Agricultural regions of the world.

Unit III
Agricultural Measures: Land use pattern; concept of carrying capacity of land; Measures of agricultural efficiency and agricultural productivity.

Unit IV
Agricultural Development in India: Agro-climatic regions; Green revolution; Second generation reforms in Indian agriculture: land and institutional reforms; Organic and contract farming; Agricultural planning and policies.

Unit V
Concept of cropping pattern, crop combination, gross and net cropped area, crop rotation. A critical review and contemporary perspective of Von Thünen model; Definition and factors affecting yield. Measures of agricultural productivity. Role of irrigation in Indian agriculture. Problems of agriculture with special reference to South Asian countries.

Suggested Readings
7D Remote Sensing and GIS

Unit I

Unit II

Unit III

Unit IV

Unit V

Suggested References