SRI VENKATESWARA UNIVERSITY - TIRUPATI

MAJOR

SUBJECT: B.A. / B.Sc GEOGRAPHY

W.E.F. AY 2023-2024

SEMESTER – II

	Theory	**Practical**
1	Major 3 : Introduction to Geography	Geographical Representation of Earth
2	Major 4 :Earth System Science	Relief Features

Major –3: Introduction to Geography

Course Objectives:

- To Introduce the Geography as discipline
- To describe Universe, Solar system and Earth and its elements

Course Outcome:

After the completion of the course the Students will able to

- Understand the Geography as Discipline.
- Obtain the knowledge on universe Earth and Life.
- Understand Globe and need of Latitudes and Longitudes.
- Improve the knowledge on earth rotation and revolution.
- Understand the importance of Maps and scale.

UNIT-I

Geography as a – Intraduction, Definition, Scope and Purpose - Relationship between Geography other Subjects. Branches of Geography: Systematic and Regional approach.

UNIT-II

The Earth : Origination of Universe and solar System- Evolution of the earth - Evolution of Lithosphere, Atmosphere and Hydrosphere - Evolution of life.

UNIT-III

Globe: Globe, Latitudes and Longitudes- Longitudes Time - calculation of Time- International Date Line.

UNIT-IV

Movements of the Earth: Earth rotation and revolution – Occurrence of Day and nights – Leap Year - Occurrence of Seasons.

UNIT-V

Maps: Definition and types, Scale: definition Representation of Scales conversation of scales Direction - North

References:

1. K.Siddhatha (2014) The Earth Dynamic Surface, Kisalaya Publication, New Delhi
2. Strahler, A. H. and Strahler, A N., (2001) Modern Physical Geography (4thEdition), John Wiley and Sons, Inc., New York.
3. Bartholomeo, R. B., (1984) Earth Science, Heath and Co., Toronto.
4. Dury, G. H., (1980) The Face of the Earth, London: Penguins.
5. Ernst, W. G., (Ed.) (2000) Earth Systems: Process and Issues, Cambridge University Press, Cambridge.
6. Recent Earthquakes in India and World –A global view of Tsunami-Volcanoes

Major 3 - Practical - Geographical Representation of Earth

Course objectives:

Understanding the Different Geographical Tools.

Course Outcome:

On the completion of syllabus students must be able to:

- Draw and compute map scales of different kinds.
- Measure the distance, areas and find the directions on maps.
- Reduce and enlarge maps of different scales manually to the required size.
- Depict landforms by contours.
- Represent the data related to climate by means of graphs and diagrams.

Ex. 01: Preparation Maps classification flow chart

Ex.02: Drawing Globe and marking importance of latitudes and Longitudes.

Ex. 03: Drawing Weather measuring Instruments

Ex. 04: Map Symbols

Ex.05: Analysis of aerial photographs, satellite images and define Global Positioning System (GPS.)

References:

1. Singh, R.L, (1991) Elements of Practical Geography – Kalyani Publishers, New Delhi.
2. Monk house and Willkinson (1976) Maps and Diagrams, Metuhuen& Co, London.
3. Gobal Singh Map Work and Practical Geography, Vikas Publishing House Pvt Ltd, New Delhi.
4. Worthington, B.D.R. and Robert Gent (1975): Techniques in Map Analysis, Ebenzer Baylis and Sons, USA.
5. Anson, R.W. (Ed.) (1984) Basic Cartography for Students and Technicians, Volume 2,
6. International Cartograhic Association, Elsevier Applied Science Publishers, London.
7. Dorling, D. and David Fairbairn (1997), Mapping: Map of representing the world, Addisson Wesley Longman Ltd., U.K.

Major – 4: Earth System Science

Course objectives:

- The course deals about the origin and evolution of earth
- The course describes various processes of dynamic earth.

Course Outcome:

After the completion of the course the Students will able to

- Understand the Historical aspects of the earth.
- Obtain the knowledge on Rocks and its cycle.
- Understand planet earth dynamism.
- Develop the knowledge on earth surface relief.
- Describe the occurrences of Volcanoes and Earthquakes.

UNIT – I

Earth System Science: introduction, definition and scope of earth system science, Concepts and systems of earth – Earth's orbital parameters - internal and external heat engines of the Earth - internal processes of earth – earth's internal structure – mantle and core - Earth's crust – Earth's magnetism.

UNIT – II

ROCKS: Origin and Types- Igneous - sedimentary – metamorphic rocks.

UNIT – III

THE DYNAMIC PLANET: earth history, Shape,Size and density Continental drift – Wegener's continental drift theory –Major plates and plate moments – diverging, converging and transforming plate boundaries.

UNIT – IV

EARTH'S SURFACE RELIEF: Earth's topography - orders of relief - Earth's hypsometry – stress and strain – fold – fault – orogenesis - features of the sea floor.

UNIT – V

EARTHQUAKES AND VOLCANISM: Earthquakes: causes – seismic waves – measurement of earthquakes – effects – tsunamis – world distribution – volcanism: types – ejecting materials - distribution of volcanoes – intrusive bodies – types.

REFERENCES:

1. K.Siddhatha (2014) The Earth Dynamic Surface, Kisalaya Publication, NewDelhi
2. Strahler, A. H. and Strahler, A N., (2001) Modern Physical Geography (4thEdition), John Wiley and Sons, Inc., New York.
3. Bartholomeo, R. B., (1984) Earth Science, Heath and Co., Toronto.
4. Dury, G. H., (1980) the Face of the Earth, London: Penguins.
5. Ernst, W. G., (Ed.) (2000) Earth Systems: Process and Issues, Cambridge University Press, Cambridge.

MAJOR 4 - PRACTICAL

RELIEF FEATURES

COURSE OBJECTIVE:

Acquiring knowledge on map enlargement and reduction and depiction of landforms by contours.

Course Outcome:

On the completion of syllabus students must be able to:

- Draw and compute map scales of different kinds.
- Measure the distance, areas and find the directions on maps.
- Reduce and enlarge maps of different scales manually to the required size.
- Depict landforms by contours.
- Represent the data related to climate by means of graphs and diagrams.

Ex. 01: Methods of Relief Representation –Hill Shading, hachure's,
Ex. 02: Representation of Contours
Ex. 03: Slope- types of slopes concave, circue, Spur and Ridge
Ex. 04: Gradient and Slope Calculation
Ex. 05: Representing Profiles
Ex. 06: Representation of Relief-valleys, Mountains

References:

1. Singh, R.L, (1991) Elements of Practical Geography – Kalyani Publishers, New Delhi.
2. Monk house and Willkinson (1976) Maps and Diagrams, Metuhuen& Co, London.
3. Gopal Singh Map Work and Practical Geography, Vikas Publishing House Pvt Ltd, New Delhi.
4. Worthington, B.D.R. and Robert Gent (1975): Techniques in Map Analysis, Ebenzer Baylis and Sons, USA.
5. Anson, R.W. (Ed.) (1984) Basic Cartography for Students and Technicians, Volume 2,
6. International Cartograhic Association, Elsevier Applied Science Publishers, London.
7. Dorling, D. and David Fairbairn (1997), Mapping: Map of representing the world, Addisson Wesley Longman Ltd., U.K.