

SRI VENKATESWARA UNIVERSITY :: TIRUPATI

V SEMESTER W.E.F. 2025-26

GEOGRAPHY

Vth Semester-Minor Theory papers. 5. : Disaster Management

6.Cartography

Practical Papers. 1.Map Making

2,Map Analysis

Semester VI

Semester Internship / Apprenticeship / OJT with 12 Credits.

Student is eligible for Exit Option-3 with the award of Degree in respective major with minor

Minor –5: Disaster Management

Course objectives:

- To develop the skill of understanding about natural calamities and disaster and also realize the consequences as well as preparedness.
- To create awareness on human and natural disasters.
- To understand disasters classifications and there impacts

Course Outcomes:

After the completion of the course, Students will be able to

- Develop the skill of understanding about natural calamities and disaster and also realize the consequences as well as preparedness.
- Improve awareness on human and natural disasters
- Understand classification of disasters and its impacts and management of disasters.

UNIT I:

Disaster: Meaning and Concept, types of Disasters. Natural disasters: Earthquakes Hazardous effects, volcanic eruptions – Hazardous effects.Certaincasestudies.

UNITII:

Cyclones and floods : cyclone related parameters and effects on land and sea-damage assessment. Causes of flood andflood prone area analysis –damage assessment. Certain case studies.

UNIT III

Droughts and desertification: Types of droughts – factors influencingdroughts – land use and groundwater level changes – delimiting droughtproneareas.

UNIT IV

Man induced disasters: Deforestation and environmental degradation, urbanization, industrial development and environmental pollution. Types of pollution: Air pollution, Water pollution, Soil pollution and Noise pollution.

UNIT V

Disaster management: Pre and post disaster operations of Earthquakes, cyclones, floods, droughts, forestfires. The role of Remote Sensing and GIS in disaster management studies.

References:

1. Savindra Singh,Environmental Geography, PrayagPintakBhavan, Allahabad,2006.
2. Singh,L.R.,Singh,Savindra,Tiwari,R.C.andSrivastava,R.P.:EnvironmentalManagement(ed ited),AllahabadUniversity,1983.
3. Singh,Savindra:Floodhazardsandenvironmentaldegradation;AcasestudyoftheGomatiRiver, inenvironmentalmanagement,AllahabadUniversity,1983.
4. John,A.Mattlews:Naturalhazardsandenvironmentalchange.BillMcGuire,Ian Mason,2002.
5. Nimpuno,K:DisastersandSocialResponse,ITC,1989.
6. Hooja,R.andJoshi,R.:Desert,DroughtandDevelopmentStudiesinResourceManagementand Sustainability:RawatPublications,Jaipur,1994.
7. Aronaff,S:GeographicInformationSystems;AManagementPerspective,DDLPublications,O ttawa,1989.
8. Barrett,E.C.andCurtis,L.F.:FundamentalsofRemoteSensingandAirphotointerpretation,Mc Millan,NewYork,1992.
9. Bring,N.,DhalandMs.SUnitaDhal:CanGISandDisasterManagementSystemhelp,GIS India? Vol.9,No.1,January-February,2000.

Minor -6 : Cartography

Course Objective

- To apprise the students to various aspects of cartography.
- To introduce the basic concepts and key theoretical approaches in Advanced Cartography.
- To describes the art and science of map making and map analysis.
- To teach the representation and conversions of scales.
- To provide the knowledge on map design, layout, lettering, toponymy, drawing surface and equipment.
- To give the clear picture on the changing process of map making from analogue to digital.

Course Outcomes

After the completion of the course, Students will be able to

- Explain the importance of advanced cartography in map making and presenting.
- Acquire good knowledge about different procedure of map making and various projection system of map making by developing broad knowledge about latitude, longitude, meridians, parallels etc.
- Developing their quantitative application in geographical study which gives more accuracy in any geographical enquiry which can further helps students in conducting research activities.
- Perform map layout and map interpretation for any geographical area.

UNIT I

Cartography –Definition. Cartography is a science of human communication;Scales – Methods of representation & conversions;

UNIT II

Map projections –classification and choice of projections. Merits and demerits of cylindrical, conical, zenithal and conventional projections.

UNIT III

Semiology – Kindsof symbols– Mapping qualitative and quantitative point, Line and Area symbols. Types of maps and their uses. Topographical maps: Elements of topographical maps, scales and numbering of Toposheets.

UNIT IV

Map design and layout – Theory of visual perception constraints and Restrictions in map design. Lettering and Toponymy. Mechanics of map construction: Drawing surfaces – Drawing Equipment.

UNIT V

Mapping the qualitative and quantitative data. Thematic mapping; concept of map base, map compilations & generalizations. Concepts of Geographical Information System (GIS).

References:

1. Khan, Z.A.: Textbook of practical geography, concept, New Delhi, 1998.
2. Monkhouse, F.J. & Wilkinson, H.R. : Maps and Diagrams, Methuen, London, 1994
3. Steers, J.A.: Map Projections, University of London Press, London Burrough, P.A.: Principles of geographic information systems for land resource assessment, Oxford University Press, New York, 1986.
4. Fraser Taylor D.R.: Geographic Information Systems, Pergaman Press, Oxford, 1991.
5. Star J and J. Estes: Geographic information systems. An introduction, Prentice Hall, Englewood Cliff, New Jersey, 1994.
6. Misra, R.P. and Rames, A.: Fundamentals of Cartography, Mcmillan Co., New Delhi, 1986.

Minor Practical – Map Making

Course objectives:

- To understand how make maps.
- To assist, select and complete map making.

Course Outcomes:

After the completion of the course, Students will be able to

- Develop skill of Map making.
- Understand Selection, complete Map making.

Ex. 01: Map making of SOI Topo sheet

Ex. 02: Map making of NATMO Maps

Ex. 03: Map making of Census Atlas of India

Ex. 04: Map making of Land use maps

Ex. 05: Map preparation of Resource Atlas of Andhra Pradesh

Ex. 06: Preparation of Geological Survey of India (GSI) Maps

References:

1. Archer J.E. & Dalton T.H. (1968): The field work in Geography, E.t. Batsford Ltd., London.
2. Haring, Lloyd (1975): Scientific Geographic Research W C. Brow Company USA.
3. Johnes, P.A. (2008): Field Work in Geography, Longman.
4. Kothari C.R. (1996): Research Methodology, VishwasPrakashan, New Delhi
5. Misra R.P. (1991): Research Methodology in Geography, concept pub. New Delhi.

Minor-Practical – Map Analysis

Course objectives:

- To help to understand how to analyse maps.
- To assist, select and complete map analysis.

Course Outcomes:

After the completion of the course, Students will be able to

- Develop skill of map analysis.
- Understand Selection, complete Map analysis.

Ex. 1: Interpretation of SOI 1:2, 50,000 Sheets

Ex. 2: Interpretation of SOI 1” to 1 Mile Sheets

Ex. 3: Interpretation of SOI 1:50,000 Sheets

Ex. 4: Interpretation of SOI 1:25,000 Sheets

Ex. 5: Interpretation of SOI OSM Sheets

References:

1. Archer J.E. & dalton T.H. (1968): The fields work in Geography, E.t. Batsford Ltd., London.
2. Haring, Lloyed (1975): Scientific Geographic Research W C. Brow Company USA.
3. Johnes, P.A. (2008): Field Work in Geography, Longman.
4. Kothari C.R.(1996): Research Methodology, VishwasPrakashan, New Delhi
5. Misra R.P. (1991): Research Methodology in Geography, concept pub. New Delhi.

Model Question Paper
SRI VENKATESWARA UNIVERSITY
DEGREE EXAMINATIONS IN BSC (HONS)
SEMESTER SYSTEM WITH SINGLE MAJOR PROGRAMME
(Effective from the Academic Year 2023-24)
Semester V- Subject: Geography
Minor Theory Paper : 5: Disaster Management

Time: 3 Hours

Marks: 75

Section- A

Answer any five of the following questions (5 X 5 = 25 Marks)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Section – B

Answer the following questions with internal choice. (10 X 5 = 50 marks)

11. a)

Or

b)

12. a)

Or

b)

13. a)

Or

b)

14. a)

Or

b)

15. a)

Or

b)

Model Question Paper
SRI VENKATESWARA UNIVERSITY
DEGREE EXAMINATIONS IN BSC (HONS)
SEMESTER SYSTEM WITH SINGLE MAJOR PROGRAMME
(Effective from the Academic Year 2023-24)
Semester V- Subject: Geography
Minor Theory Paper : 6: Cartography

Time: 3 Hours

Marks: 75

Section- A

Answer any five of the following questions (5 X 5 = 25 Marks)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Section – B

Answer the following questions with internal choice.

(10 X 5 = 50 marks)

11. a)

Or

b)

12. a)

Or

b)

13. a)

Or

b)

14. a)

Or

b)

15. a)

Or

b)

PRACTICAL MODEL QUESTION PAPER
Geography Minor practical papers

Time: 3Hrs.

Max.Marks:50

I Answer any four of the following question (4x10)=40 Marks

1. Question
2. Question
3. Question
4. Question
5. Question
6. Question
7. Question

Record

10 Marks