

Course name: Applications of Geoinformatics Part-II

Course code: GIS-509/DGIS-509

Unit Schedule

Block1: Applications of geoinformatics in Geomorphology

Unit 1: Conceptual framework-interfaces Geoinformatics with geosciences, basic geomorphic process, and features

1.1 Objective

1.2 Introduction

1.3 Conceptual framework –interface of geoinformatics with geosciences, basic geomorphic process, and features, application of geoinformation in geomorphology

1.4 Summary

1.5 Glossary

1.6 Answer to check your progress

1.7 References

1.8 Terminal questions

Unit 2: Geomorphic applications: principles of recognition elements for terrain evaluation, mapping of terrain, and classification of landforms, interpretation of erosional and depositional landforms, and interpretation of drainage systems

2.1 Objectives

2.2 Interpretation

2.3 Geomorphic application: principles of recognition elements for terrain evaluation, mapping of terrain, classification of landforms, interpretation of erosional and depositional landforms, interpretation of drainage systems

2.4 Summary

2.5 Glossary

2.6 Answer to check your progress

2.7 Reference

2.8 Terminal questions

Unit 3: Hydro Geomorphological applications-hydrologic features and their elements, surface water and ground studies, interpretation techniques for targeting groundwater potential zones, delineation of watershed, watershed prioritization and management

3.1 Objective

3.2 Introduction

3.3 Hydro Geomorphological applications-hydrologic features and their elements, surface water and ground studies, interpretation techniques for targeting potential groundwater zones, delineation of the watershed, watershed prioritization and management

- 3.4 Summary
- 3.5 Glossary
- 3.6 Answer to check your progress
- 3.7 Reference
- 3.8 Terminal questions

Block 2: GPS based RS surveys advance application potential of GPS

Unit 4 - Environment

- 4.1 Objectives
- 4.2 Introduction
- 4.3 Environment
- 4.4 Summary
- 4.5 Glossary
- 4.6 Answer to check your progress
- 4.7 References
- 4.8 Terminal questions

Unit 5 - Agriculture

- 5.1 Objectives
- 5.2 Introduction
- 5.3 Agriculture
- 5.4 Summary
- 5.5 Glossary
- 5.6 Answer to check your progress
- 5.7 References
- 5.8 Terminal questions

Unit 6 - Public safety & disaster relief

- 6.1 Objectives
- 6.2 Introduction
- 6.3 Public safety & disaster relief
- 6.4 Summary
- 6.5 Glossary
- 6.6 Answer to check your progress
- 6.7 References
- 6.8 Terminal questions

Unit 7: Surveying & mapping

- 7.1 Objectives
- 7.2 Introduction
- 7.3 Surveying & mapping
- 7.4 Summary
- 7.5 Glossary
- 7.6 Answer to check your progress

- 7.7 References
- 7.8 Terminal questions

Unit 8 - Roads and highways

- 8.1 Objectives
- 8.2 Introduction
- 8.3 Roads and highways
- 8.4 Summary
- 8.5 Glossary
- 8.6 Answer to check your progress
- 8.7 References
- 8.8 Terminal questions

Unit 9 - Navigation

- 9.1 Objectives
- 9.2 Introduction
- 9.3 Navigation
- 9.4 Summary
- 9.5 Glossary
- 9.6 Answer to check your progress
- 9.7 References
- 9.8 Terminal questions