

Course Name: Applications of Geoinformatics Part III (For M.Sc.)

Course Code: GIS-602

Block 1: Applications of Geo Informatics in Forest

Unit 1: Introduction and distribution of forests types in India

- 1.1 Objectives
- 1.2 Introduction
- 1.3 Introduction and distribution of forests types in India
- 1.4 Summary
- 1.5 Glossary
- 1.6 Answer to check your progress
- 1.7 References
- 1.8 Terminal Questions

Unit 2: Interaction of EMR with vegetation, spectral and temporal characteristics of vegetation,

- 2.1 Objectives
- 2.2 Introduction
- 2.3 Interaction of EMR with vegetation, spectral and temporal characteristics of vegetation,
- 2.4 Summary
- 2.5 Glossary
- 2.6 Answer to check your progress
- 2.7 References
- 2.8 Terminal Questions

Unit 3: Forest covers type and forest density mapping, forest cover change detection, forest management, Biomass and Bio-diversity studies

- 3.1 Objectives
- 3.2 Introduction
- 3.3 Forest covers type and forest density mapping, forest cover change detection, forest management, Biomass and Bio-diversity studies
- 3.4 Summary
- 3.5 Glossary
- 3.6 Answer to check your progress
- 3.7 References
- 3.8 Terminal Questions

Block 2 Applications of Geo-Informatics in Hazard Mapping

Unit 4: Hazards and their types

- 4.1 Objectives
- 4.2 Introduction
- 4.3 Hazards and their types
- 4.4 Summary
- 4.5 Glossary
- 4.6 Answer to check your progress
- 4.7 References

4.8 Terminal Questions

Unit 5: Significance of Hazard Vulnerability and Risk

5.1 Objectives

5.2 Introduction

5.3 Significance of Hazard Vulnerability and Risk

5.4 Summary

5.5 Glossary

5.6 Answer to check your progress

5.7 References

5.8 Terminal Questions

Unit 6: RS and GIS based Geo data creation

6.1 Objectives

6.2 Introduction

6.3 RS and GIS based Geo data creation

6.4 Summary

6.5 Glossary

6.6 Answer to check your progress

6.7 References

6.8 Terminal Questions

Block 3 Applications of Geo-Informatics in Town Planning

Unit 7: Concept of Town planning, Town land use planning and classification systems, Town resources information and infrastructures.

7.1 Objectives

7.2 Introduction

7.3 Concept of Town planning, Town land use planning and classification systems, Town resources information and infrastructures.

7.4 Summary

7.5 Glossary

7.6 Answer to check your progress

7.7 References

7.8 Terminal Questions

Unit 8: Remote sensing data and scales for Town area analysis, Town sprawl mapping and monitoring using remote sensing, residential area analysis

8.1 Objectives

8.2 Introduction

8.3 Remote sensing data and scales for Town area analysis, Town sprawl mapping and monitoring using remote sensing, residential area analysis

8.4 Summary

8.5 Glossary

8.6 Answer to check your progress

8.7 References

8.8 Terminal Questions

Unit 9: Overview of Town infrastructure, facilities and services, slum and squatter settlement and their identification Town services and facilities analysis, land suitability analysis for Town area development.

9.1 Objectives

9.2 Introduction

9.3 Overview of Town infrastructure, facilities and services, slum and squatter settlement and their identification Town services and facilities analysis, land suitability analysis for Town area development.

9.4 Summary

9.5 Glossary

9.6 Answer to check your progress

9.7 References

9.8 Terminal Questions