Course name: Advance GIS

Course code: GIS-506/DGID-506

Unit schedule

Block 1: Spatial Database

Unit1:GIS database

1.1 Objectives
1.2 Introduction
1.3GIS database
1.4 Summary
1.5 Glossary
1.6 Answer to check your progress
1.7 References
1.8 Terminal Questions

Unit2:Characteristics of spatial & non spatial data

2.1 Objectives
2.2 Introduction
2.3 Characteristics of spatial & non spatial data
2.4 Summary
2.5 Glossary
2.6 Answer to check your progress
2.7 References
2.8 Terminal Questions

Unit3:Topology creation and data query

3.1 Objectives
3.2 Introduction
3.3 Topology creation and data query
3.4 Summary
3.5 Glossary
3.6 Answer to check your progress
3.7 References
3.8 Terminal Questions

Unit4:Data manipulation
4.1 Objectives
4.2 Introduction
4.3 Data manipulation
4.4 Summary
4.5 Glossary
4.6 Answer to check your progress
4.7 References
4.8 Terminal Questions

Block 2: Spatial database raster analysis

Unit5:Raster data manipulation and reclassification
5.1 Objectives
5.2 Introduction
5.3 Raster data manipulation and reclassification
5.4 Summary
5.5 Glossary
5.6 Answer to check your progress
5.7 References
5.8 Terminal Questions

Unit6:Raster data analysis-local, focal, zonal and global
6.1 Objectives
6.2 Introduction
6.3 Raster data analysis-local, focal, zonal and global
6.4 Summary
6.5 Glossary
6.6 Answer to check your progress
6.7 References
6.8 Terminal Questions

Unit7: Raster data analysis- arithmetic operations and decision rule based
7.1 Objectives
7.2 Introduction
7.3 Raster data analysis- arithmetic operations and decision rule based
7.4 Summary
7.5 Glossary
7.6 Answer to check your progress
7.7 References
7.8 Terminal Questions

Unit8: Raster data formats
8.1 Objectives
8.2 Introduction
8.3 Raster data formats
8.4 Summary
8.5 Glossary
8.6 Answer to check your progress
8.7 References
8.8 Terminal Questions

Block 3: Spatial database vector analysis

Unit9:Overlay analysis- union, intersection
9.1 Objectives
9.2 Introduction
9.3 Overlay analysis- union, intersection
9.4 Summary
9.5 Glossary
9.6 Answer to check your progress
9.7 References
9.8 Terminal Questions

Unit10:Proximity analysis- buffering
10.1 Objectives
10.2 Introduction
10.3 Proximity analysis- buffering
10.4 Summary
10.5 Glossary
10.6 Answer to check your progress
10.7 References
10.8 Terminal Questions

Unit11:Networking analysis: optimal path & neighborhood
11.1 Objectives
11.2 Introduction
11.3 Networking analysis: optimal path & neighborhood
11.4 Summary
11.5 Glossary
11.6 Answer to check your progress
11.7 References
11.8 Terminal Questions

Unit12:Map manipulation

12.1 Objectives
12.2 Introduction
12.3 Map manipulation
12.4 Summary
12.5 Glossary
12.6 Answer to check your progress
12.7 References
12.8 Terminal Questions

Unit13: Vector data formats

13.1 Objectives
13.2 Introduction
13.3 Vector data formats
13.4 Summary
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13.6 Answer to check your progress
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13.8 Terminal Questions