

## Course outline

How does an NPTEL online course work?

Week Zero: Assignment Zero

Week 01

Week 02

Week 03

Week 04

● Pre-processing of spatial datasets-02

● Pre-processing of spatial datasets-03

● Spatial Interpolation Techniques-01

● Spatial Interpolation Techniques-02

● GIS ANALYSIS-01

○ Quiz : Assignment 4

● Solution for week 04

week 05

week 06

week 07

week 08

week 09

Week 10

week 11

week 12

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# Assignment 4

The due date for submitting this assignment has passed.

**Due on 2021-02-17, 23:59 IST.**

As per our records you have not submitted this assignment.

1) Basic GIS functions are:

1 point

- Area and distance measurement
- Buffer generation
- Reclassification
- All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
All of the above

2) Basic spatial analysis involves:

1 point

- Attribute query
- Spatial query
- Both attribute and spatial queries
- Auto query

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Both attribute and spatial queries

3) What is reclassification?

1 point

- The process of simplifying data in a data layer.
- An analytical technique based on point data.
- The process of combining one or more data ranges into a new data range to create a new data layer
- The process of combing two or more data layers.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
The process of combining one or more data ranges into a new data range to create a new data layer

4) "Points close together in space are more likely to have similar values than points farther apart" is known as?

1 point

- Tottenham Law of Geography
- Totler's Law of Geography
- Tobler's Law of Geography
- Tobin Law of Geography

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Tobler's Law of Geography

5) The kriging technique is:

1 point

- An interpolation technique
- A georeferencing technique
- A classification technique
- A sub-sampling technique

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
An interpolation technique

6) Which of the following spatial interpolation techniques is an example of a local, exact, abrupt and deterministic interpolator?

1 point

- TIN
- Spline
- Thiessen polygons
- Spatial moving average

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Thiessen polygons

7) Spatial interpolation is the procedure of estimating the value of properties at:

1 point

- Observational location
- Un-sample sites
- Sample sites
- None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Un-sample sites

8) Generally, which vector data is used for spatial interpolation:

1 point

- Point
- Polyline
- Polygon
- None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Point

9) Preprocessing in GIS involves the following:

1 point

- Format conversion
- Generalization
- Merging
- All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
All of the above

10) The following are also part of processing:

1 point

- Georeferencing
- Interpolation
- Image interpretation
- None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
None of the above