4.8.2020

JUNE 2018

16 Saturday Week 24 167-198

CSE591 SPATIAL INFORMATICS

TAUGHT BY

- prof. rajan KS

COURSE TOPICS

1. what is geographical information system (GIS)?
2. fundamental concepts of space.
3. geospatial data and its digital representation - vectors and rasters.
4. GIS data collection, editing, and data formats.
5. data structures for spatial data and spatial data management (geospatial database)
6. spatial data query and analysis - spatial analysis, network analysis.

17 Sunday

7. data compatibility - projections and georeferencing.
8. spatial reasoning and uncertainty
9. web-GIS, GML, and map services
10. geospatial applications in few areas like in

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24	25	26	27	28	29	30

hydrology (water floods and floods), ecology and environment; land use and land cover; urban planning and transportation; etc.

11. topics in spatial informatics

- 3D GIS
- open source initiatives in GIS / RS

TEXT BOOKS

1. geographical information systems and science; paul.
2. introduction to geographic information systems; chang.
3. GIS - a computing perspective; worboys.
4. concepts and techniques of geographic information systems; lo.