


**Value Added Course in Civil Engineering with
Specialization in
“Geographical Information System (GIS)”
Held On
December 2017 to March 2018**



**Department of Civil Engineering,
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SUMMARY REPORT OF GEOGRAPHICAL INFORMATION SYSTEM (GIS)

About Course

The value added course on Geographical Information System is concluded its work successfully by department of civil engineering (CE) in KG ready college of Engineering and technology (KGR CET), Hyderabad, Telangana. This course is a forum to bring together students to discuss innovative ideas and diverse topics of this course on next generation of information technologies. Department has taken a new step for students to improve the quality of study through this course and become most wide scale , extensive, spectacular event in civil engineering. The course was held in two locations of the department (a) Department E-learning room for theory class and (b) Department laboratory for practical class.

Geographic Information System (GIS) is a system intended to capture, store, manipulate, analyze, manage, and present all types of geographical data. In the simplest terms, GIS is the merging of cartography, statistical analysis, and database technology.

A GIS can be thought of as a system. It digitally creates and *manipulates* spatial areas that may be for jurisdictional purpose or application-oriented. Generally, a GIS is custom-designed for an organization. Hence, a GIS developed for an application, jurisdiction, enterprise, or purpose may not be necessarily interoperable or compatible with a GIS that has been developed for some other application, jurisdiction, enterprise, or purpose.

This course is absolutely practical oriented course which is helped to student for making their carrier through database in any industry. The students of 3rd year 2nd semester have been benefited in many ways from this course. More than 80 students have joined in this course as their own interest and completed this course. The trainer taught to students very nice with real time example and sharing his knowledge to develop technical skill in industry.

Objectives of the course

The objective of the course is to bring together experts from academic institute and training institute for sharing of knowledge, expertise and experience in emerging trends related to the civil engineering topics.

GIS Objectives. Maximize the efficiency of decision making and planning. Provide efficient means for data distribution and handling. Complex analysis/queries involving geographical reference data to generate new information.

Some of the major objectives of GIS are to

- Maximizing the efficiency of planning and decision making
- Integrating information from multiple sources
- Facilitating complex querying and analysis
- Eliminating redundant data and minimizing duplication

Application of GIS

GIS is a relatively broad term, which can refer to a number of technologies and processes, so it is attached to many operations; in engineering, planning, management, transport/logistics and analysis.