

UTILITY MANAGEMENT SYSTEM FOR AN ENGINEERING COLLEGE USING GIS

C.ELANGO VAN*; DR.A.S.S.SEKAR**

*RESEARCH SCHOLAR IN CIVIL ENGINEERING DEPARTMENT,
ANNA UNIVERSITY,
CHENNAI.

**PROFESSOR IN CIVIL ENGINEERING DEPARTMENT,
ALAGAPPA CHETTIAR COLLEGE OF ENGINEERING AND TECHNOLOGY,
KARAIKUDI.

ABSTRACT

The potential application of geographic information system (GIS) and related technologies are almost endless. GIS is used in transportation planning, urban growth management, market analysis, health care planning, facility management, landscape architecture, environmental analysis and management, hazard management and disaster management. Real estate, aviation, insurance and commercial development are all emerging as potentially large, new GIS users. Municipal utilities such as water, waste water, storm water and electric organization are beginning to use GIS to manage their infrastructure. In today's competitive world, a successful utility must take maximum advantage of its resources, from people to equipment to information. Utilities are destructing themselves intelligently by several parts of existing systems and incorporating new technology to extent their capabilities. The main aim of this study is to develop an integrated GIS to manage the infrastructure and utilities for a small area (for an Engg college). R2V digitizing software (able software, 1998) is used to digitize the base map and Arc View GIS software (Arc View, 1994) is used for analysis. Anna University is the world largest technical University in Tamilnadu and about 500 Engineering College are affiliated in this University. It is very difficult task to manage / co ordinate all the institution during examination and admission timings. Hence a complete GIS for one institute is developed and the same procedure may be extended and implemented in all the colleges. Finally the integration of GIS for all institution will help educators for their better planning and management. The paper deals with effective utilization and management of infrastructure available in an Engineering College using GIS technology. In this study Shri Angalamman college of Engg and technology is taken as case study. This is the initial work for an engineering college and this has further scope to develop for all Engg Colleges in Tamilnadu.

KEY WORDS: Geographic information system, Utility management, Statistics.

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