

Department : **Mechanical**

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Group No: **21**

Guided By

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**Project Title**

**AUTOMATION IN REAL TIME DAM AND CANAL MONITORING  
AND OPERATION**

**Abstract:**

“Automation in the canal and dam monitoring and operating system” for real time problems were taken as a study. Various guideline available from literature reviews, details of the study area and suggestions and help from the irrigation departments and practicing engineers have been taken and based on that methodology has been developed. The problem for complete project was decided to divide into four phases in which automation in canal monitoring, automation in river gauge station, automation in dam and supply from dam was taken. For this semester first and foremost phase has been selected which includes the automation in the canal system. Also, software based on this available information was successfully developed for this first phase which displays and shows various information at a same time on the screen of the PC based acquisition system. The software system operates, monitors and manage the flow in the river with digital display. The practical performances have been taken in laboratory and in canal also. The planning of this system is to installed and checked for real time monitoring and management to supervise the control in every canal networking. The automation will reduce state overburden over scarcity of water but also it will reduce man power control and increase remote control over the canal.

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