



G H Patel College of Engineering & Technology, V. V Nagar
Department of Civil Engineering



Report on
Expert Talk on “Rainfall-Runoff Modelling using ANN, Fuzzy Logic & ANFIS: A Case Study of Dharoi Sub-Basin”

Department of Civil Engineering, GCET had organized an expert lecture under ISTE staff chapter (G025) on “*Rainfall-Runoff Modelling using ANN, Fuzzy Logic and ANFIS: A Case Study of Dharoi Sub-Basin*” on March 24th, 2018 for all teaching faculty members of various discipline.

Aim of Expert Talk:

The main aim of the expert talk was to give better idea about rainfall-runoff relationship and hydrological modeling with its application in water resources.

About the talk:

The talk was delivered by Prof. Ratansharan Panchal, working as Assistant Professor at Department of Civil Engineering, G H Patel College of Engineering & Technology. The talk was about rainfall-runoff relationship, hydrological modelling in general, MatLab software and its various tools (ANN, Fuzzy Logic & ANFIS) for developing rainfall-runoff models.

Expert has discussed the importance and significance of rainfall-runoff relationship in terms of hydrology point of view and how hydrological modelling help in understanding this relationship with the help of various tools and softwares. Also, the necessity to understand this relationship in making proper decision for controlling runoff via constructing various rainfall-runoff models by predicting runoff values for future. He has also discussed about Dharoi Sub-Basin which is the part of Sabarmati River Basin where this study is carried out.