

## **A Mathematical Programming View in solving Multi Criteria Decision Aid problems**

**Dr. T. Ganesh**

Department of Statistics, Pondicherry University, Puducherry

In any environment, the main objective is to provide a set of best alternatives for given criteria. The decision maker provides some necessary and basic information about each criterion and the alternatives that helps in identifying the relation between them. The problems of this kind can be dealt with Multi Criteria Decision Making or Multi Criteria Decision Aid (MCDA) techniques. The main aim of MCDA is to account for several views and provide some tools for the Decision Maker (DM) in solving complex decision problems. Here, the presentation focuses on various MCDA techniques like ELECTRE TRI method, Goal Programming and Analytical Hierarchy Process (AHP) along with this software oriented approach is also addressed.