



MCDM TECHNIQUES USING R

PROF. GAURAV DIXIT

Department of Management

IIT Roorkee

INTENDED AUDIENCE : UG & PG engineering students: all branches MBA students PhD students: all branches

INDUSTRIES APPLICABLE TO : R&D organizations, Government Agencies, Consultancy firms

COURSE OUTLINE :

The objective of this subject is to introduce students with the concepts, tools and techniques of decision making under multiple criteria using software platforms like R & MATLAB.

ABOUT INSTRUCTOR :

Prof. Gaurav Dixit is an Assistant Professor in the Department of Management Studies at the Indian Institute of Technology Roorkee. He earned his doctoral degree from the Indian Institute of Management Indore and an engineering degree from Indian Institute of Technology (BHU) Varanasi. Previously, he worked in Hewlett-Packard (HP) as software engineer, and Sharda Group of Institutions as project manager on deputation. Gaurav's research focuses on information technology (IT) strategy, electronic commerce, electronic waste, data mining, and big data analytics and provides insights on business and social value of IT. His research has appeared in quality journals & conferences, including Resources, Conservation and Recycling, Journal of Global Information Technology Management, Sustainable Production and Consumption, Journal of Information Technology Management, DIGITS conference, India Finance Conference, Indian Academy of Management conference, and Academy of Management conference.

COURSE PLAN :

Week 01 : Basics and Principles of MCDM, MAVT & MAUT

Week 02 : AHP Method, Distance Based Methods

Week 03 : Outranking Methods, Group Decision Making, DEA Method Structural Models, MODM Solving Methods

Week 04 : Structural Models, MODM Solving Methods