

DATA ANALYTICS FOR DECISION-MAKING

COURSE CONTENT:

TOPIC TO BE COVERED
1. INTRODUCTION TO DATA ANALYTICS
2. INTRODUCTION TO R
3. LINEAR REGRESSION MODELS
4. CLASSIFICATION
5. TREE BASED METHODS
6. SUPPORT VECTOR MACHINES
7. NEURAL NETWORKS
8. CROSS-VALIDATION
9. GENERALIZED LINEAR MODELS
10. PREDICTIVE ANALYTICS
11. TIME SERIES MODELLING
12. DIMENSION REDUCTION
13. RESAMPLING METHODS
14. MCDM METHODS
15. SPECIAL TOPIC I (to be decided)
16. SPECIAL TOPIC II (to be decided)

Mode of Evaluation of Performance of Participants:

Continuous evaluation by the faculty in the form of assignments/projects.

Appropriate certificates will be awarded to the participants at the end of the course as per criteria specified below:

CRITERIA	AWARD
Satisfactory Performance* in at least 50% of the topics AND attendance in at least 50% of the sessions	Certificate of Proficiency
Satisfactory Performance* in less 50% of the topics AND attendance in at least 50% of the sessions	Certificate of Attendance
Satisfactory Performance* in at least 50% of the topics AND attendance in less than 50% of the sessions	Certificate of Participation
All other cases	NO Certificate

*Through assessment based on assignments/tests/projects