



Shri Dharmasthala Manjunatheshwara
Institute for Management Development

FDP on Machine Learning Using R For Beginners

May 17, 2025

Who can attend?

This FDP is primarily designed for faculty members and working professionals but curious students new to the field of analytics are also encouraged to attend. Additionally, early-stage research scholars seeking to build a strong foundation in analytics can benefit from this program.

Resource Persons

Dr. Anand Ellur is a faculty member in the area of Operations and Quantitative Techniques, with a passion for operations management concepts and machine learning algorithms. He teaches operations and analytics related courses. He has flair to teach machine learning concepts for students and novice faculty members in the area of analytics.



Program Overview

This Faculty Development Program (FDP) is designed to equip faculty members with foundational knowledge in Machine Learning using R in response to the growing demand for analytics in academia. While many premier institutions now offer advanced-level FDPs in this domain, there remains a significant gap in beginner-friendly certification programs for educators new to analytics. This program aims to bridge that gap by providing a structured, hands-on introduction to Machine Learning, enabling participants to build confidence in the field. By the end of the FDP, participants will gain the necessary skills and insights to integrate data-driven analytics into their teaching, research, work/job serving as a springboard for further exploration in the area of analytics.

Program Schedule

Time	Details
09.30 am - 09.45 am	Registration
09.45 am - 10.00 am	Inauguration Session
10.00 am - 11.15 am	Session 1 <ul style="list-style-type: none">• Introduction to R Environment.• Exposure to R Packages.• Basic Functions in R.• Data Structures in R.• Basic plots.
11.15 am - 11.45 am	Photo Session / Tea Break / Networking
11.45 am - 01.00 pm	Session 2 - Multiple Linear Regression <ul style="list-style-type: none">• Introduction to Simple Linear Regression and Multiple Linear Regression (MLR).• Model building: Forward Selection, Backward Elimination and Step-wise Regression Method.
01.00 pm - 02.00 pm	Lunch Break
02.00 pm - 03.15 pm	Session 3 <ul style="list-style-type: none">• Assumptions of MLR.• Diagnostics including Multicollinearity (VIF) and Cook's Distance.
03.15 pm - 03.30 pm	Tea Break / Networking
03.30 pm - 04.45 pm	Session 4 - Logistic Regression <ul style="list-style-type: none">• Introduction to Logistic Regression - Brief theory of logistic regression.• Logit Model.• Model Building - Case Study.• Confusion Matrix, Sensitivity, Specificity, Precision, ROC Curve.
04.45 pm - 5.30 pm	Valedictory and Certificate Distribution

Program Objectives

- To imbibe a foundational understanding of business analytics and machine learning.
- To equip participants with hands-on proficiency and expertise in using R by the end of the FDP.
- To provide participants with the essential knowledge of practical analytics applications using relevant datasets, tools, and techniques.

Program Fee Details

- Rs. 2000 per participant - In-person, physical presence
- Please Note: 25% group discount for 3 or more participants from the same organisation/institution.

Quick Contact

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Scan for Registration &
Payment

