Indian Institute of Management Indore

INTEGRATED PROGRAMME IN MANAGEMENT (IPM)
TERM: V

TITLE OF THE COURSE: LINEAR PROGRAMMING
CREDITS: 6

COURSE DESCRIPTION

Linear Programming deals with the problem of minimizing or maximizing a linear function in the presence of linear equality and/or inequality constraints. Since the development of the Simplex method by George B. Dantzig in 1947, linear programming has been extensively used in the military, industrial, governmental, and urban planning fields, among others. Linear programming has become popular due to many factors like its ability to solve large and complex problems, in a reasonable amount of time by the use of effective algorithms and modern computers. The course has been designed to impart the knowledge of formulation of practical problems using the linear programming method, to understand the theoretical basics of different mathematical algorithms used in solving linear programming problems.

COURSE OBJECTIVES

- To introduce the participants the concept of linear programming
- To understand how to formulate practical problems as linear programming problems
- To make the participants understand the theoretical basics of linear programming
- To understand the practical ways to implement a linear programming model using computer tools

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