Indian Institute of Management Indore

सिद्धिमूलं प्रबन्धनम्
भा. प्र. सं. इन्दौर
IIM INDORE

Integrated Programme in Management
TERM: III

TITLE OF THE COURSE: INTRODUCTION TO DATABASES
CREDITS: 4

COURSE DESCRIPTION

A database is an organized collection of related data. In modern organizations, databases are used to support a wide-range of operations. Some common applications involve personnel management, inventory control, customer order tracking, and database marketing. Companies also use databases for analyzing consumer demands, service quality, and customer profiles.

Introduction to Databases is a four credit (20 sessions) course for participants interested in understanding the fundamental concepts related to databases and database management systems (DBMS).

COURSE OBJECTIVES

The purpose of this course is to introduce the fundamental concepts of database management, including aspects of data models, database design and Structured Query Language (SQL). Participants will be introduced to the history of database management covering file processing, hierarchical, network, relational and object oriented models with a focus on the relational model and relational algebra. Participants will be presented with a methodology for relational database design using Entity Relationship Diagrams and normalization of data. An overview of the functions of the Database Management System (DBMS) and of a Database Administrator (DBA) will also be discussed. The course will conclude with a short discussion on data warehousing, data mining and Big Data.

****