

**SARDAR PATEL UNIVERSITY**  
**Programme: MSC (Information Technology)**  
**Semester: III**  
**Syllabus with effect from: June 2010**

<b>Paper Code:</b> PS03EINT02	<b>Total Credits: 4</b>
<b>Title Of Paper:</b> Data Mining and Data Warehousing	

Unit	Description in detail	Weightage (%)
<b>1</b>	<b>DATA MINING-INTRODUCTION:</b> Data mining introduction information and production factor Data mining Vs Query tools Data mining in marketing – self learning computer systems Concepts learning Data learning Data mining and the data warehouse	<b>18 %</b>
<b>2</b>	<b>Project Planning and Management:</b> Scope Role and Responsibilities Life Cycle approach	<b>16 %</b>
<b>3</b>	<b>Data Warehouse Architecture- System Process:</b> Introduction Process flow within an data warehouse Extract and Load Process Clean and Transform data Backup and Archive Process Query Management Process	<b>16 %</b>
<b>4</b>	<b>Data Warehouse Architecture- Process Architecture:</b> Introduction Load and Warehouse Manager Query Manager Detailed and Summary Information Metadata Data Marting	<b>18 %</b>
<b>5</b>	<b>Database Design – Logical:</b> Database Schema – Starflake, Partitioning strategy, Aggregations, Data Marting Metadata, System and Data Warehouse Process Manager	<b>16 %</b>
<b>6</b>	<b>Database Design – H/W and Operational:</b> H/W Architecture, Physical Layout, Security, Backup and Recovery, Service Level Agreement, Operating Data Warehouse	<b>16 %</b>

**Basic Text & Reference Books:**

- S. Anahory & D. Murray: Data Warehousing in the real world – Addison Wesley
- R. Kinball: Data Warehouse Toolkit – John Wiley & Sons
- R. Kinball, L.Reeves : The Data Warehouse Lifecycle Toolkit – John Wiley & Sons
- Pieter Adriaans, Dolf Zantinge, "Data Mining", Addison Wesley, 1996.

