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

**Paper Code:** PS03EINT02  
**Title Of Paper:** Data Mining and Data Warehousing  
**Total Credits:** 4

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description in detail</th>
<th>Weightage (%)</th>
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| 1    | DATA MINING-INTRODUCTION:  
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 | 18 % |
| 2    | Project Planning and Management:  
Scope  
Role and Responsibilities  
Life Cycle approach | 16 % |
| 3    | Data Warehouse Architecture- System Process:  
Introduction  
Process flow within an data warehouse  
Extract and Load Process  
Clean and Transform data  
Backup and Archive Process  
Query Management Process | 16 % |
| 4    | Data Warehouse Architecture- Process Architecture:  
Introduction  
Load and Warehouse Manager  
Query Manager  
Detailed and Summary Information  
Metadata  
Data Marting | 18 % |
| 5    | Database Design – Logical:  
Database Schema – Starflake, Partitioning strategy,  
Aggregations, Data Marting  
Metadata, System and Data Warehouse Process Manager | 16 % |
| 6    | Database Design – H/W and Operational:  
H/W Architecture, Physical Layout,  
Security, Backup and Recovery,  
Service Level Agreement, Operating Data Warehouse | 16 % |

**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.