Course Code	CSE 606		
Course Name	Data Warehouse		
Credits	4		
Course Offered to	UG/PG		
Course Description	The international market for Business Intelligence and Data warehouse is increasing rapidly and is currently estimated to be in hundreds of billion of US dollars. A number of Indian companies, even in NCR of Delhi, are already carrying out projects in the area. Yet, there is an acute shortage of skilled human resources in the subject and the course attempts to plug this gap. Students will be taken over the development life cycle of a data warehouse. The application environment in which a data warehouse is embedded shall be brought out so that the value of the new technology is clearly discernible.		

Pre-requisites		
Pre-requisite (Mandatory)	Pre-requisite (Desirable)	Pre-requisite(other)
Relational DBMS		

*Please insert more rows if required

Post Conditions*(For suggestions on verbs please refer the second sheet)			
CO1	**CO2**	**CO3**	**CO4**
Relate data warehousing to decisi	Elicit required information for a decision	Design and implement the data war	Obtain Business Intelligence fr

Weekly Lecture Plan

Week Number	Lecture Topic	COs Met	Assignment/Labs/Tutorial
1	Overview of Databases, Data Warehouse Definition, Decisions and their types, Decision making process	CO1	Build and load relational data ba
2	Influence and Augmented Influence diagrams Perspectives of DW: Basic Dimension Modeling	CO1	Build and load relational data ba
3	Decisional and DW Information Models Conversion to Dimension Model Computer Assisted Tools	CO1, CO2	Build Decisional Tool
4	Databases vs. Data Warehouses Star Schema Design	CO2, CO3	Build Decisional Tool
5	The DW Process, ETL	CO1	Build Decisional Tool
6	Fact Design, transaction, periodic snapshots, evolving snapshots, granularity Multiple and type specific stars	CO3	Build Decisional Tool
7	Evaluation of Decisional Tools of students	CO3	DW Project
8	Dimension Design: Types, properties and design considerations	CO3	DW Project: Submit Influence D
9	Dimension Design: Bridges, Attribute and Recursive Hierarchies, Transactions, snapshots	CO3	Dw Project: Submit Informationa

10	Operational Issues in Star Schema Design: NULLS, Special rows in Dimensions, snowflake schema issues	CO3	DW Project: Submit Fact Design
11	Data Warehouse Consolidation Agile DW development	CO3	DW project: Submit Dimension d
12	Business Intelligence OLAP operations Mining Visualization	CO4	Complete Project
13	Project Evaluation	CO3, CO4	

Assessment Plan		
Type of Evaluation		% Contribution in Grade
End-sem exam		25
Mid-sem Exam		25
Quix exam		15
Decisional Tool construction		15
DW constrcution		20
*Please insert more row for other type of Evaluation		

Resource Material	
Type	**Title**
Textbook	

Reference Material

Kimball R. and Ross M., The Data Warehouse Tool kit, Wiley
Inmon , Imhoff, and Sousa, The Corporate Information Factory, Wiley
Imhoff, Galemno, Geiger, Mastering Data Warehouse Design Wiley
P. Ponniah, Data Warehouse Fundamentals, Wiley India
Adamson C., Star Schema, Tata McGraw Hill
Inmon, Building the Data warehouse, Wiley
Prakash and Prakash, Data Warehouse Requirements Engineering, Springer
Marakos G.M., Decision Support Systems, PHI

ɔm the warehouse

ɹl requirments