Lovely Professional University, Punjab

Course Code	Course Title	Course Planner
INT306	DATABASE MANAGEMENT SYSTEMS	11179::Kewal Krishan

Course Outcomes :Through this course students should be able to

CO1 :: develop skills and understanding in the database design and make use of database management systems for applications

CO2 :: develop understanding about relational algebra, relational model and SQL for implementing and maintaining databases

CO3 :: develop understanding about the different issues involved in the design and implementation of a database system

CO4 :: develop skills and understanding about the real time transaction management systems and the concurrency control techniques

CO5 :: compose programming constructs such as functions, stored procedures and triggers that can be shared by multiple forms, reports and data management applications

	TextBooks (T)		
Sr No	**Title**	**Author**	**Publisher Name**
T-1	DATABASE SYSTEM CONCEPTS	HENRY F. KORTH, ABRAHAM SILBERSCHATZ, S. SUDARSHAN	MCGRAW HILL EDUCATION

	Reference Books (R)		
Sr No	**Title**	**Author**	**Publisher Name**
R-1	DATABASE SYSTEMS: MODELS, LANGUAGES, DESIGN AND APPLICATION PROGRAMMING	RAMEZ ELMASRI, SHAMKANT B. NAVATHE	PEARSON
R-2	AN INTRODUCTION TO DATABASE SYSTEMS	C. J. DATE, S. SWAMYNATHAN, A. KANNAN	PEARSON
R-3	SQL, PL/SQL: THE PROGRAMMING LANGUAGE OF ORACLE	IVAN BAYROSS	BPB PUBLICATIONS
R-4	SIMPLIFIED APPROACH TO DBMS	PRATEEK BHATIA AND GURVINDER SINGH	KALYANI PUBLISHERS

Relevant Websites (RW)		
Sr No	**(Web address) (only if relevant to the course)**	**Salient Features**
RW-1	https://www.geeksforgeeks.org/deadlock-in-dbms/	Deadlock in DBMS
RW-2	https://www.geeksforgeeks.org/database-management-system-er-model/	Database Design
RW-3	https://www.geeksforgeeks.org/database-management-system-introduction-set-1/	Introduction to Database Systems
RW-4	https://www.geeksforgeeks.org/database-management-system-introduction-set-2-3-tier-architecture/	Database Management System Introduction
RW-5	https://www.geeksforgeeks.org/concurrency-control-introduction/	Introduction to Concurrency Control
RW-6	https://www.geeksforgeeks.org/exception-handling-plsql/	Types of exceptions and Exception Handling
RW-7	https://www.tutorialspoint.com/plsql/plsql_exceptions.htm	Exception Handling
RW-8	https://www.geeksforgeeks.org/dbms-file-organization-set-1/	Types of File Organizations
RW-9	https://cs.nyu.edu/courses/Fall12/CSCI-GA.2433-001/lecture9.pdf	File organization
RW-10	https://www.tutorialspoint.com/plsql/	Procedures, Cursors and Triggers
RW-11	https://www.tutorialspoint.com/sql/sql-sub-queries.htm	SQL - Sub Queries
RW-12	https://www.w3schools.com/sql/sql_constraints.asp	SQL Constraints
RW-13	https://www.geeksforgeeks.org/sql-join-set-1-inner-left-right-and-full-joins/	SQL Join
RW-14	https://www.w3schools.com/sql/sql_view.asp	SQL Views
RW-15	https://www.studytonight.com/dbms/set-operation-in-sql.php	SET Operations in SQL
RW-16	https://www.w3schools.com/sql/sql_count_avg_sum.asp	Aggregate Function in SQL
RW-17	https://www.tutorialcup.com/dbms/keys.htm	Database Keys
RW-18	https://www.tutorialspoint.com/dbms/dbms_transaction.htm	Transactions and Schedules
RW-19	https://www.coursera.org/lecture/intro-sql/basic-sql-operations-0jEbQ	Basic SQL Operations
RW-20	https://www.w3schools.com/sql/sql_operators.asp	SQL Operators
RW-21	https://www.mongodb.com/nosql-explained	NoSQL Database
RW-22	http://www.cs.sfu.ca/CourseCentral/354/zaiane/material/notes/Chapter11/node1.html	Indexing and Hashing
RW-23	http://en.wikipedia.org/wiki/PL/SQL	Programming Constructs in Databases
RW-24	http://db.grussell.org/section015.html	Transaction and Recovery
RW-25	http://en.wikipedia.org/wiki/Concurrency_control	Concurrency Control

RW-26	http://en.wikipedia.org/wiki/Transaction_processing	Transaction Processing
RW-27	http://holowczak.com/database-normalization/	Normalization
RW-28	http://www.w3schools.com/sql/	SQL Command
RW-29	http://jcsites.juniata.edu/faculty/rhodes/dbms/relcalc.htm	Relational Calculus
RW-30	http://www.databasteknik.se/webbkursen/relalg-lecture/	Relational Algebra
RW-31	http://www.siue.edu/~dbock/cmis450/3-ermodel.htm	E-R Modeling
RW-32	http://unixspace.com/context/databases.html	Data Models
RW-33	http://jcsites.juniata.edu/faculty/rhodes/dbms/dbarch.htm	Three level Database Architecture
RW-34	http://infolab.stanford.edu/~ullman/fcdb.html	Database System course by Stanford
RW-35	http://nptel.iitm.ac.in/video.php?subjectId=106106093	Video Tutorials from the IIT
RW-36	http://nptel.iitm.ac.in/courses/IIT-MADRAS/Intro_to_Database_Systems_Design/	DBMS PDF of IIT-M
RW-37	https://www.tutorialspoint.com/hadoop/hadoop_big_data_overview.htm	Introduction to Big data