Course Type	Course Code	Name of Course	L	T	P	Credit
DP	NCSC510	Advanced DBMS Lab	0	0	3	1.5

Course Objective
• This course is intended to provide the students with an understanding of the practice of database management systems mainly in cloud environment and provide an environment for hands-on session.
Learning Outcomes
Students will be learning building project using No-SQL databases.

Unit No.	Topics to be Covered	Practical Hours	Learning Outcome
1	Designing Relational Databases	3	Understanding the design of Relational Database and working with SQL.
2	Designing No-SQL Databases - MongoDB	12	Understanding of installing and working with MongoDB. Building a Mini-project based on MongoDB.
3	Designing No-SQL Databases - Cassandra	12	Understanding of installing and working with Cassandra. Building a Mini-project based on Cassandra.
4	Designing No-SQL Databases - Neo4J	12	Understanding of installing and working with Neo4J. Building a Mini-project based on Neo4J.
5	Examination	3	
Total		**42**	

Text Books:

1. AviSilberschatz, Henry F. Korth& S. Sudarshan, "Database System Concepts", Tata Mc-Graw-Hill, 7thEdition.

Reference Books:

1. W. Kim, "Modern Database Systems - The Object Model, Interoperability, and Beyond", Addison Wesley, 1stEdition.
2. Dan Sullivan, "NoSQL for Mere Mortals", Addison Wesley.
3. W. Kim, "Introduction to Object Oriented Databases", MIT Press, Volume 1.
4. J. D. Ullman, "Principles of Database and Knowledge Base Systems", Computer Science Press, 2ndEdition.