

Course Type	Course Code	Name of Course	L	T	P	Credit
DP	NMCC534	DBMS for Data Analytics Practical	0	0	3	1.5

Course Objective

- To provide fundamental knowledge of DBMS concepts and their applications in data analytics, distributed databases, and big data systems.

Learning Outcomes

- Students will learn how to use and design Data Base in Data Analytics.

Unit No.	Topics to be Covered	Contact Hours	Learning Outcome
1	Accessing the database, Basic, intermediate, and advanced SQL, Introduction to Python database toolbox.	12	This unit will help students to learn how to access the database, Basic, intermediate and advanced SQL, and Python database toolbox.
2	Introduction to Git, Database access from a programming language, Database metadata access from a programming language.	09	This unit will make students learn about Git, Database access from a programming language, Database metadata access from a programming language.
3	Create a webpage connected to a database server, Create functions to generate HTML	06	Students will learn how to Create a webpage connected to a database server and Create functions to generate HTML.
4	Term projects: self-conceived or assigned by the instructor, Presentation of the term projects	09	Students will do some projects related to implementation of DBMS in Data Analytics as assigned by the instructor.
5	Practice session and Practical Lab Exam.	06	
Total		42	

Text Books:

- H. F. Korth, A. Silberschatz and S. Sudarshan, Database System Concepts, 7th Edition, McGraw Hill, 2020.
- Raghu Ramakrishnan and Johannes Gehrke, Database Management Systems, 3rd Edition, McGraw-Hill, 2003.

Reference Books:

- P. O'Neil, Database: Principles, Programming, Performance, Morgan Kaufman Publishers, 1994.
- J.D. Ullman, Principles of Database and Knowledge-Base Systems, Computer Science Press, 1988.