

AMITY GLOBAL INSTITUTE
MODULE SYLLABUS

Course	Diploma in Computing
Module Title	Database Systems
Start Date	September 2018
End Date	September 2019
Syllabus / Content / Learning Outcomes	<p>On successful completion of the module students will be able to:</p> <p>Knowledge and Understanding</p> <ol style="list-style-type: none"> a. Demonstrate understanding of database programming language SQL b. Demonstrate knowledge of database design and integrity <p>Subject specific skills</p> <p>On successful completion of the module students will have demonstrated their ability to:</p> <ol style="list-style-type: none"> a. Apply data modelling techniques to establish a data structure and associated components; entity descriptions, relationship descriptions, attribute definitions b. Convert data to 3rd normal form demonstrating the relevant stages of development c. Translate and implement development requirements into physical database structures using SQL and reference to good practice <p>Key Skills</p> <p>On successful completion of the module students will have had the opportunity to:</p> <ol style="list-style-type: none"> a. Group Work: Assists as part of a team to deliver a database structure conforming to appropriate standards and good practice
No. of Teaching Hours	<p>Teacher Managed Learning</p> <p>Eg : Lectures : 48 Hrs</p> <p>Student Managed Learning</p> <p>Eg : Tutorials, Seminars etc : 152 Hrs</p> <p>TOTAL = 200</p>
Teaching Methods	Lectures, tutorials, case-studies analysis, research journals and group discussion
Assessment Methods and Weightages	<p>Written Assessment 1 (1500 Words) – 50%</p> <p>Written Assessment 2 (1500 Words) – 50%</p>
Skills for Maximising Learning Outcomes	Reading and Research
Dates of Examination and Submission of Assignment	<p>Examination Period (not all modules have end-of-semester / year examinations)</p> <p>Indicative:</p> <p>January 2019</p> <p>September 2019</p>
Recommended Text & Reference	<ul style="list-style-type: none"> • James Hamilton, Joseph M H, Michel Stonebraker - "Architecture of a Data System (Foundations and Trends in Databases)", Now Publishers Inc • Ramez Elmasri, Shamkant B Navathe – "Fundamentals of Database Systems", Pearson Addison Wesley

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Lesson No.	Learning Outcome
1.	Database and Database Management Systems
2.	Relational Database Model
3.	Database Planning and Designing
4.	E-R Model to Design and Develop Databases
5.	Functional Dependencies and the Need for Normalisation in Databases
6.	SQL an Introduction
7.	SQL Basic Constraints and Queries
8.	SQL Basic Queries