Revised: 9/11/2016

INTI INTERNATIONAL UNIVERSITY COURSE STRUCTURE

Programme: DIPLOMA IN INFORMATION AND COMMUNICATIONS TECHNOLOGY (DICTN)

1.	Name of Course/Module : DATABASE MANAGEMENT							
2.	Course Code: ICT1104							
3.	Rationale for the inclusion of the course/module in the programme: Provide fundamental principles of database management systems.							
4.	Student Legarning Time (SLT)		Tota	Total Student Independent Learning Time				
		L	T	P	o	A	B/O	IL
	L = Lecture T = Tutorial P = Practical(Lab) O= Others A= Assessment B/O=Blended /Online learning IL= Independent learning	28	0	14		4	14	100
5.	Credit Value: 4							
6.	Prerequisite (if any): None							
7.	 Learning outcomes: On completion of the course, students will be able to: Explain how data and information processing and management are executed. Describe the main process of database design in practical programming underpinning the manipulation of information and the analysis of data. Employ SQL Server to create simple tables and queries. Organize in group to create a simple database and present the application using Microsoft SQL server. 							
8.	Synopsis: This is an introduction to relational databases course. It covers data modelling, database development methodolog and implementation. The course will discuss fundamental principles of databases, the relational model, conceptual design and query languages. An implementation of simple application using Microsoft SQL Server is covered during the practical classes.							
9.	Mode of Delivery: Lectures, Practical, Small Group Discussion and Tutorials are conducted online.							
10.	Assessment Methods and Types:							
	Coursework and Examination Tests, Online Quiz, Project, Assignments and Final Exam							

CERTIFIED TRUE COPY

Jaya Kumari Krishnan Senior Officer Admissions & Records INTI International University

Revised: 9/11/2016

Sessions	of the course/module and the SLT per top: Topics	LO	L	T	P	B/O	O	Α
1-4	Basic Concepts	1	4		1	2		
	Overview of Data, Information,	-				_		
	database, database management and							
5-8	Introduction to Relational Database	1	4			2		
5 0	Overview of Relational database,	1				2		
	Traditional File Approach,							
	Advantages of DBMS, Three layers							
	of abstraction, users of DBMS							
9-14	Overview of SQL Server	2	6		4	3		
9-14	Create Tables for Database, defines	2	0		4	3		
	data types, properties of data, primary							
	keys.							
	Create Tables for Database							
	Application							
	Building tables using SQL server,						1	
	define data types, properties of data,							
	primary keys, adjusting layout of							
	tables. Entering data into tables.							
	Relate tables in SQL							
				Second Speed Sec. 11. 11. 11.				
15-18	Designing Database	3,4	4		4	2		
	Designing the database and defining							
	its relationships.							
	Introducing various data types (e.g:							
	Char, varchar, enum, auto-increment,							
	not null)							
19-22	Creating Queries part 1	2	4		2	2		
	Populating the database and							
	introducing import & export functions							
	Querying the database Part 1							
23-25	Creating Queries part 2	3,4	3		2	1		
	Populating the database and							
	introducing import & export functions							
	Querying the database Part 2							
26-28	Referential And Entity Integrity	3,4	3		2	2		
	Rules and relationships				-	-		
					-			
		1	1		1			

Lecture (L), Tutorial (T), Practical (P), O (Other), Assessment (A), B/O ((Blended/Online learning); Independent Learning (IL); Learning Outcome (LO)

CERTIFIED TRUE COPY

Jaya Kumari Krishnan
Senior Officer
Admissions & Records
INTI International University

Revised: 9/11/2016

12. Main reference(s) supporting course:

• Connolly T. and Begg C.,(2014), Database Systems: A Practical Approach to Design, Implementation and Management, 6th edition, Addison Wesley.

Additional references:

 Carlos Coronel, Steven Morris (2014), Database Systems: Design, Implementation, & Management, 11th Edition, Cengage Learning.

13. Other additional information (if any):

LABORATORY WORK:

Week	Practical Work
3	Introduction to tables, creating data field, key-in data, create more tables
4	Linking the tables
5	Creating forms and designing forms
6	Creating reports and designing reports
7	Creating simple query
8	Integrating forms, Integrating reports and query
9	Creating a simple database application

ASSESSMENT:

Test	20%
Online Quiz	10%
Assignment	10%
Project	20%
Final Exam	40%

FINAL EXAMINATION FORMAT:

Duration: 2 hours

Section A: Answer TWO compulsory questions.

Section B: Answer any TWO out of THREE questions.

All questions carry equal marks.

GRADING SCALE:

A+ (90-100), A (80-89), A- (75-79), B+ (70-74), B (65-69), B- (60-64), C+ (55-59), C (50-54), C- (45-49), D (40-44), F (0-39).

Resit Pass (50-100), Resit Fail (0-49).

Important Note:

A student who obtains a grade C- (45-49 marks) in a 100% coursework module is required to resubmit the coursework component determined by the lecturer and ascertained at the Exam Board. Resubmission marks will be capped at a maximum of 50 marks or a grade C.

A passing mark can only be achieved when the student attempts both the coursework and final exams.

CERTIFIED TRUE COPY

Paya Kumari Krishnan
Senior Officer
Admissions & Records

Admissions & Records
(NT) International University