# PROG C7015: Introduction to Databases

| Module Details | |
|---|---|
| Module Code: | PROG C7015 |
| Full Title: | Introduction to Databases APPROVED |
| Valid From: | Semester 1 - 2019/20 ( June 2019 ) |
| Language of Instruction: | English |
| Duration: | 1 Semester |
| Credits: | 5 |
| Module Owner:: | Roisin Mulligan |
| Departments: | Unknown |
| Module Description: | This module will introduce students to the principles and techniques involved in creating and using relational databases. |

| Module Learning Outcome | |
|---|---|
| *On successful completion of this module the learner will be able to:* | |
| **#** | **Module Learning Outcome Description** |
| MLO1 | Apply the basic concepts in the development of a relational database |
| MLO2 | Create tables and relationships. |
| MLO3 | Design various types of queries. |
| MLO4 | Create more complex sub-queries. |

| Pre-requisite learning |
|---|
| ***Module Recommendations*** <br> *This is prior learning (or a practical skill) that is strongly recommended before enrolment in this module. You may enrol in this module if you have not acquired the recommended learning but you will have considerable difficulty in passing (i.e. achieving the learning outcomes of) the module. While the prior learning is expressed as named DkIT module(s) it also allows for learning (in another module or modules) which is equivalent to the learning specified in the named module(s).* |
| No recommendations listed |

| Module Indicative Content |
|---|
| **Database Concepts.** <br> DBMS, database elements |
| **Tables** <br> Data types. |
| **Relationships** <br> Data Integrity |
| **Queries** <br> Create, Add Criteria, and Query Types |
| **Sub-queries** <br> Create, Aggregate functions, Grouping. |

## Module Assessment

| Assessment Breakdown | % |
|---|---|
| Course Work | 100.00% |

| Module Special Regulation |
|---|
|  |

**Assessments**

### Full Time

#### Course Work

| | | | |
|---|---|---|---|
| **Assessment Type** | Class Test | **% of Total Mark** | 50 |
| **Marks Out Of** | 0 | **Pass Mark** | 0 |
| **Timing** | Week 6 | **Learning Outcome** | 1,2,3 |
| **Duration in minutes** | 0 | | |
| **Assessment Description** <br> Practical/Skills Evaluation | | | |

| | | | |
|---|---|---|---|
| **Assessment Type** | Class Test | **% of Total Mark** | 50 |
| **Marks Out Of** | 0 | **Pass Mark** | 0 |
| **Timing** | End-of-Semester | **Learning Outcome** | 2,3,4 |
| **Duration in minutes** | 0 | | |
| **Assessment Description** <br> Database Implementation and Manipulation | | | |

No Project

No Practical

No Final Examination

### Part Time

#### Course Work

| | | | |
|---|---|---|---|
| **Assessment Type** | Class Test | **% of Total Mark** | 50 |
| **Marks Out Of** | 0 | **Pass Mark** | 0 |
| **Timing** | Week 6 | **Learning Outcome** | 1,2,3 |
| **Duration in minutes** | 0 | | |
| **Assessment Description** <br> Practical/Skills Evaluation | | | |

| | | | |
|---|---|---|---|
| **Assessment Type** | Class Test | **% of Total Mark** | 50 |
| **Marks Out Of** | 0 | **Pass Mark** | 0 |
| **Timing** | End-of-Semester | **Learning Outcome** | 2,3,4 |
| **Duration in minutes** | 0 | | |
| **Assessment Description** <br> Database Implementation and Manipulation | | | |

No Project

No Practical

| No Final Examination |
| --- |

| **Reassessment Requirement** |
| --- |
| **No repeat examination**<br>*Reassessment of this module will be offered solely on the basis of coursework and a repeat examination will not be offered.* |

## Module Workload

### Workload: Full Time

| Workload Type | Contact Type | Workload Description | Frequency | Average Weekly Learner Workload | Hours |
|---|---|---|---|---|---|
| Practical | Contact | No Description | Every Week | 4.00 | 4 |
| Directed Reading | Non Contact | No Description | Every Week | 2.00 | 2 |
| Independent Study | Non Contact | No Description | Every Week | 2.00 | 2 |
| | | | | Total Weekly Learner Workload | 8.00 |
| | | | | Total Weekly Contact Hours | 4.00 |

### Workload: Part Time

| Workload Type | Contact Type | Workload Description | Frequency | Average Weekly Learner Workload | Hours |
|---|---|---|---|---|---|
| Practical | Contact | No Description | Every Week | 3.00 | 3 |
| Directed Reading | Non Contact | No Description | Every Week | 3.00 | 3 |
| Independent Study | Non Contact | No Description | Every Week | 2.00 | 2 |
| | | | | Total Weekly Learner Workload | 8.00 |
| | | | | Total Weekly Contact Hours | 3.00 |

## Module Resources

*Supplementary Book Resources*

Connolly, T & Begg, C. (2015), Database Systems, 6th. Pearson, [ISBN: 1292061189].

Date, C.J. (2004), Introduction to Database Systems, 8th. Pearson, [ISBN: 9780321197849].

*This module does not have any article/paper resources*

*Other Resources*

[Website], w3schools,
http://www.w3schools.com/sql

[Website], mySQL Tutorial,
http://www.mysql.com