Bachelor of Science in Information Technology
Course Short Code
IT
Course Year
c
Course Offering:
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Bachelor of Science in Information Technology

****IMPORTANT MESSAGE****

The purpose of this information sheet is to allow you view all modules connected to the Qualification, optional and core. You should print this sheet out and then continue to the next step where your registration will take place.

It is your responsibility to ensure that you register correctly

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REGISTRATION RULES

1. You can choose up to four, fifteen credit modules in one year. You can choose up to three , twenty credit modules in one year.

2. Please note pre-requisite modules are bracketed e.g. C2 (C1). The pre-requisite module for C2 is C1. C1 must be successfully completed in order to be eligible to register for the C2 module. If an exemption has been granted in a pre-requisite module then it does not have to be completed. (Exemption is applicable to Level 1 and Level 2 modules only).

3. Two of the Level 1 modules, MS001 and CT1, requires a competence in Mathematics. (If your background in mathematics is weak, please review the DCU Preparatory Mathematics Module at

https://drive.google.com/drive/folders/0B2K_jtKmLo9YZnFZdGZKbENZdUU

Additionally, it is recommended that you undertake the MS001 module before attempting the CT1 module.)

4. Only in the case where Direct Entry has been granted will a student be allowed to register for Degree Level modules without first successfully completing the 4 modules at Level 1, i.e. MS001, CT1, C1 and HS1 must be completed (or exempted) before a student can register for any Degree Level module.

5. Only in the case where Direct Entry has been granted will a student be allowed to register for Degree Level modules without first successfully completing the relevant Level 2 Modules e.g. C2 must have been successfully completed before either CA or CB can be undertaken.

6. CA, CTA, HSA, MS00B and SDA are compulsory modules. MSA and CB are elective (optional) modules.

The Bachelor of Science degree will be awarded to a student who has successfully completed all modules at Level 1, all modules at Level 2 and six degree level modules; the five compulsory modules and one of the optional modules.

7. HSA, CB, MS00B and SDA are continuously assessed with no terminal exam. To the extent possible it is recommended you take a mix of modules between those with continuous assessment only (i.e. no examinations) and those with both continuous assessment and examinations in one year. However, there may be advantages in taking MS00B and SDA in the same academic year, particularly if you want to develop a mobile application as a business idea.

8. Students must have regular access to a PC with Microsoft Office 2010 or later(student offers may be available on the DCU ISS website), a broadband Internet connection, a headset/microphone and a webcam. Students with Apple-Mac computers may encounter specific issues as learning materials and software are typically designed on/for the Windows operating system. Where students are provided with software, for example SPSS, it will be for Windows OS.

To study SDA you will **require** an **android phone** containing either the Marshmallow or later version of operating system. If you have access to a laptop please bring it to the workshop.

For the IDE: Android Studio, please find requirements below: It is strongly recommended that you install the Android Studio IDE, before the course starts. If your development environment is Windows, you will also need to ensure that the Original Equipment Manufacturer (OEMs) drivers are available. These drivers enable Android Studio to talk to your phone. This can be verified by checking the following website

https://developer.android.com/studio/run/oem-usb.html#Drivers.

Ref: https://developer.android.com/studio/index.html

System Requirements for Android Studio Installation

Windows

- Microsoft® Windows® 7/8/10 (32- or 64-bit)
- 3 GB RAM minimum, **8 GB RAM recommended**
- 2 GB of available disk space minimum,
  4 GB Recommended (500 MB for IDE + 1.5 GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution
- **Java Development Kit (JDK) 8**
- For accelerated emulator: 64-bit operating system and Intel® processor with support for Intel® VT-x, Intel® EM64T (Intel® 64), and Execute Disable (XD) Bit functionality

Mac

- Mac® OS X® 10.8.5 or higher, up to 10.11.4 (El Capitan)
- 3 GB RAM minimum, **8 GB RAM recommended**
- 2 GB of available disk space minimum,
  4 GB Recommended (500 MB for IDE + 1.5 GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution

MODULES (AND THEIR PREREQUISITES)

Level 1 & 2:

C1	IT and Web Technology Fundamentals	15 Credits
C2	Object Oriented Programming with Java (C1)	15 Credits
CT1	Principles of Communications, Devices & Networks	15 Credits
CT2	Communications Device Theory and Design (CT1)	15 Credits
HS1	Exploring Interaction Design	15 Credits
HS2	User Experience Design (HS1)	15 Credits
MS001	Mathematical and Statistical Methods	15 Credits
MS002	Management Science and Business Modelling (MS001)	15 Credits

Degree Level:

CB	Software Engineering Methodologies (C2, MS001, HS1 & CT1)	20 Credits
CTA	Modern Data Communications and Networks (C1, CT2, MS001 & HS1)	20 Credits
HSA	Researching Interactions with Technology (C1, HS2, MS001 & CT1)	20 Credits
MS00B	Entrepreneurship and Innovation (C1, HS1, MS002, CT1)	20 Credits
CA	Database Theory and Practice (C2, MS001, HS1 & CT1)	20 Credits
MSA	Managing the Digial Landscape (C1, MS002, HS1 & CT1)	20 Credits
SDA	Mobile Application Development (C1, CT1, HS1, MS001, C2, CA)	20 Credits

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