



UNIVERSITY  
of  
TECHNOLOGY,  
MAURITIUS

**School of Innovative Technologies and Engineering**  
**Department of Business Informatics and Software Engineering**

# BSc (Hons) in Computer Applications (Top Up)

PROGRAMME DOCUMENT

*version 5.0*

**BCA**

July 2021

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**University of Technology, Mauritius**

La Tour Koenig, Pointe aux Sables, Mauritius

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### **A. PROGRAMME INFORMATION**

Information Technology training is ideal for someone interested in pursuing a career in the fast paced world of computers. Information Technology is one of the fastest growing career opportunities today. These skills are in high demand in all industries, not only the technology sectors. This course is meant to cater for diploma holders in Information Technology or any IT related course to upgrade their diploma to a degree level.

The course is conducted in 2 semesters Full-Time mode or 3 semesters Part-Time mode, during which the students are exposed to various areas of Computer Applications including the latest development keeping in pace with the industry.

The curriculum also includes various live projects, seminars to ensure well-rounded moulding of students into IT professionals. BCA course introduces students to the practical aspects of software development keeping in mind the needs and requirements of the clients, thereby these graduates have ample scope in the customer support department in making the software more viable and easier for the client to use.

### **B. PROGRAMME AIMS & OBJECTIVES**

Pursuing information technology training and earning an information technology degree can be an excellent move for someone currently working in the technology field as this will improve his professional skills and also make them more marketable for senior-level positions. Possible careers include: systems administrator, network administrator, programmer or web application developer amongst others.

## **PART I – REGULATIONS**

### **C. GENERAL ENTRY REQUIREMENTS**

As per UTM'S Admission Regulations, and 'Admission to Programmes of Study at First Degree Level' or APL / APEL requirements.

### **D. PROGRAMME ENTRY REQUIREMENTS**

A Diploma in Information Technology or a Diploma in any relevant IT discipline from a recognized institution and as approved by the Selection Committee. The Diploma be pitched at Level 6 as per the National Qualifications Framework (NQF) of Mauritius.

### **E. PROGRAMME MODE AND DURATION**

Full Time: 1 year [2 semester]  
Part Time: 1½ years [3 semesters]

### **F. TEACHING AND LEARNING STRATEGIES**

- Lectures, Tutorials and Practical Laboratory Sessions;
- Class Tests and Assignments;
- Structured Discussions and Self-Directed Study;
- Workshops and Seminars;
- Case Study of real world problems.

### **G. STUDENT SUPPORT AND GUIDANCE**

Each cohort of the programme is allocated a Programme Coordinator who acts as a liaison between the students and school management and provides support for academic management of the programme.

### **H. ATTENDANCE REQUIREMENTS**

As per UTM's Regulations and Policy.

### **I. CREDIT SYSTEM**

1 module = 6 credits  
System Development Project = 12 credits.

"This programme is aligned with the European Credit and Transfer System (ECTS)".

## J. STUDENT PROGRESS AND ASSESSMENT

For the award of an honours degree, all modules must be passed overall with passes in the examinations, coursework and other forms of assessment. To clear a module, students must secure at least 40% overall.

The programme is delivered mainly through lectures, tutorials, and practical laboratory sessions. Each module carries 100 marks and unless otherwise specified will be assessed as follows:

- Written and/or practical examination, and continuous assessment carrying up to 50% of total marks.
- Continuous assessment can be based on a combination of assignments, workshops, practical and class tests.
- Some modules may be evaluated by continuous assessment only upon the approval of the Programme Director. Modules which are evaluated on continuous assessment only (100% coursework) must consist of a **minimum of three assessments, inclusive of one class test**.
- The system development project will carry 300 marks (12 credits)

### Module grading structure:

| Grade | Marks x (%)          |
|-------|----------------------|
| A     | $70 \leq x \leq 100$ |
| B     | $60 \leq x < 70$     |
| C     | $50 \leq x < 60$     |
| D     | $40 \leq x < 50$     |
| F     | $x < 40$             |
| A-D   | Pass                 |
| F     | Fail                 |

## K. EVALUATION OF PERFORMANCE

The % mark at Level 3 contribute 100% weighting towards the degree classification.

## L. AWARD CLASSIFICATION

### Overall weighted mark $y$ (%)

$$70 \leq y \leq 100$$

$$60 \leq y < 70$$

$$50 \leq y < 60$$

$$45 \leq y < 50$$

$$40 \leq y < 45$$

$$y < 40$$

### Classification

1<sup>st</sup> Class Honours

2<sup>nd</sup> Class 1<sup>st</sup> Division Honours

2<sup>nd</sup> Class 2<sup>nd</sup> Division Honours

3<sup>rd</sup> Class Honours

Pass Degree

No Award

## M. PROGRAMME ORGANISATION AND MANAGEMENT

Programme Director: Mr. P. Kanaksabee

Contact Details:

- Room: G 2.12
- Telephone Number: (230) 207.52.50 (Ext. 155)
- Fax: (230) 234-1747
- Email: pkanaksabee@umail.utm.ac.mu

## PART II - Programme Structure

### N. **BSc (Hons) in Computer Applications – FULL TIME (version 5.0)**

| <b>YEAR 3 (Level 3)</b> |                                      |                              |                |                   |                                   |                               |                |    |
|-------------------------|--------------------------------------|------------------------------|----------------|-------------------|-----------------------------------|-------------------------------|----------------|----|
| <b>Semester 1</b>       |                                      |                              |                | <b>Semester 2</b> |                                   |                               |                |    |
| <b>Code</b>             | <b>Module</b>                        | <b>Hrs/Wk<br/>L +T/P +SD</b> | <b>Credits</b> | <b>Code</b>       | <b>Module</b>                     | <b>Hrs/Wk<br/>L + T/P +SD</b> | <b>Credits</b> |    |
| SEM2121C                | Agile Project Management             | 2+1+7                        | 6              | WAT2141C          | Data-Driven Application Framework | 2+1+7                         | 6              |    |
| DBT2103C                | Advanced Database Management Systems | 2+1+7                        | 6              | CAN2120C          | Communication & Networking        | 2+1+7                         | 6              |    |
| WAT2145C                | Web-Based Application Development    | 2+1+7                        | 6              | MCT2108C          | Cross-Platform Mobile Application | 2+1+7                         | 6              |    |
| SECU2101C               | Security Concepts                    | 2+1+7                        | 6              | SCG2136C          | Blockchain Systems                | 2+1+7                         | 6              |    |
|                         |                                      |                              |                |                   |                                   |                               |                |    |
| PROJ3105C               | System Development Project           |                              |                |                   |                                   |                               |                | 12 |

**O. BSc (Hons) in Computer Applications – PART TIME (version 5.0)**

| YEAR 3 (Level 3) |                                      |                      |         |            |                                   |                      |         |
|------------------|--------------------------------------|----------------------|---------|------------|-----------------------------------|----------------------|---------|
| Semester 1       |                                      |                      |         | Semester 2 |                                   |                      |         |
| Code             | Module Title                         | Hrs/Wk<br>L + T/P+SD | Credits | Code       | Module Title                      | Hrs/Wk<br>L + T/P+SD | Credits |
| SEM2121C         | Agile Project Management             | 2+1+7                | 6       | SECU2101C  | Security Concepts                 | 2+1+7                | 6       |
| DBT2103C         | Advanced Database Management Systems | 2+1+7                | 6       | WAT2141C   | Data-Driven Application Framework | 2+1+7                | 6       |
| WAT2145C         | Web-Based Application Development    | 2+1+7                | 6       | CAN2120C   | Communication & Networking        | 2+1+7                | 6       |
|                  |                                      |                      |         | PROJ3105C  | System Development Project        |                      |         |

| YEAR 3 (Level 3) |                                   |                      |         |
|------------------|-----------------------------------|----------------------|---------|
| Semester 3       |                                   |                      |         |
| Code             | Module Title                      | Hrs/Wk<br>L + T/P+SD | Credits |
| MCT2108C         | Cross-Platform Mobile Application | 2+1+7                | 6       |
| SCG2136C         | Blockchain Systems                | 2+1+7                | 6       |
| PROJ3105C        | System Development Project        |                      | 12      |