

### 3. Course of Study Modules

Students will choose any three (3) modules below for a total nine (9) credits

- Advanced Data Communication
- Advanced Operating Systems
- Artificial Intelligence
- Data Systems
- Knowledge Management
- Software Engineering
- Theory of Programming Languages

### 4. Thesis components — 22 credits

#### Graduate Office

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#### GENERAL QUERIES DIRECTED TO:

**Faculty of Engineering & Computing**  
**Graduate Studies Research & Entrepreneur-**  
**ship (FGSRE) Unit**  
**Room 1A25**  
**Engineering Building**  
Tel: 927-1680-8 Ext 2046



**University of Technology,  
Jamaica**

**Faculty of Engineering  
&  
Computing**

***MASTER OF  
PHILOSOPHY/PhD***

**IN**

***COMPUTER SCIENCE***

# Computer Science

## **PREAMBLE**

The Faculty requires an MPhil/PhD student to complete a total of forty (40) credits on the programme, comprising of eighteen (18) credits course work component and twenty-two (22) credits research component.

The eighteen (18) credits course work component is structured as below:

<b>MPhil Programme Format</b>	
<b>Faculty Modules</b>	<b>6 credits (2 modules)</b>
<b>School Module</b>	<b>3 credits (1 module)</b>
<b>Course of Study Modules</b>	<b>9 credits (3 modules)</b>
<b>Total Course Work</b>	<b>18 credits</b>
<b>Research (Thesis)</b>	<b>22 Credits</b>
<b>Total</b>	<b>40 credits</b>

## **Entry Requirements**

Bachelors Degree in Computing or Engineering with minimum standard of Second Class Honours or equivalent. Applications will be considered based on the nature and scope of the proposed research.

## **Programme Duration**

Minimum eighteen (18) months full-time and twenty four (24) months part-time

## **Programme Format**

The courses of study are scheduled for commencement at the beginning of each UTech academic semesters:

Semester 1 September—December

Semester 2 January—April

Semester 3 May—August

## **Tuition**

The tuition per course of study is US\$9180.00\*

\*Subject to change.

## **COURSE OF STUDY MODULES**

### **1. Faculty Modules—Six (6) Credits**

#### **a. Graduate Research Methods (3 credits)**

This course is designed to guide the graduate students on how to successfully complete a thesis or dissertation in the computing and engineering disciplines. It will describe specific requirements and expectation for the sequence, format and presentations of the thesis or dissertation, which forms the most important requirements in graduate studies, mostly especially, as required in the Faculty of Engineering and Computing graduate programmes.

#### **b. Graduate Research Seminar (3 credits)**

This module presents a great opportunity for FENC graduate students to develop stimulating dialogue among themselves and with other seasoned researchers. Ideally, the presentations should be recorded electronically to give the student the chance to review the sessions. The presentations will be open to all research students in the faculty. The student will be required to circulate in advance a hand-out, abstract or draft of the paper. Faculty members and guest lecturers will also be engaged to present papers in order for the student to gain experience.

### **2. School Module — Three (3) Credits**

Advanced Mathematics for Computing Applications

This course introduces students to topics in linear algebra. Topics covered include vectors in 2-space and 3-space, linear transformations, Eigenvalues and Eigenvector. Students will also be exposed to numerical methods of linear algebra.