

# Master of Science in Computing (MSc in Computing)

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## Award Aims

This course addresses market demand for graduates with Information Technology skills appropriate for business and industry. The student population is drawn from non-Information Technology backgrounds and therefore students study and work with others from a wide range of backgrounds providing a rich learning environment. Advanced computing skills and IT knowledge are developed that result in a Masters graduate with competence to design and implement systems that support application requirements efficiently and effectively.

### The MSc in Computing Award has the following aims:

- Produce quality computing professionals (from a diverse set of backgrounds) able to develop IT solutions and systems using state-of-the-art technologies;
- Focus on enhancing the overall qualities in aspects such as research, problem-solving and management through the development of student's abilities and skills;
- Develop multiple competencies in computing and relevant application areas allied to a broader intellectual sensibility inherited from the first degree;
- Enable working effectively in project teams with sufficient knowledge, skills, experience and confidence to address business problems and deliver IT based solutions;
- Demonstrate the required knowledge, skills, experience and confidence to pursue a successful career in computing;
- Critically analyse and evaluate problems requiring computing solutions where applicable.

## Programme Structure

### MSc Computing

#### Modules

CE00225-M	Computing Skills
CE00215-M	Computer Systems Architecture
CE00218-M	Systems Analysis and Design
CE00217-M	Principles of Software Engineering
CE00216-M	Internet Applications
CE00201-M	Electronic Commerce
CE00205-M	Enterprise Database Systems
CE00204-M	Object Oriented Software Systems Engineering
CE00203-M	Strategic Planning and Systems Development

#### Dissertation

CE00226-M	Research Methods and Proposal Module
CE00296-M	Masters Dissertation Module



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## Award Structure

Period	Module Content	Stage of Award
<b>Preliminary period</b>	Computing Skills (must be passed to progress)	
<b>1<sup>st</sup> study period</b>	Computer Systems Architecture Principles of Software Engineering Systems Analysis and Design Internet Applications	PgC
<b>2<sup>nd</sup> study period</b>	Electronic Commerce Enterprise Database Systems Object Oriented Software Systems Engineering Strategic Planning And Systems Development	PgD
<b>Dissertation period</b>	Research Methods and Proposal Dissertation Module	MSc

The Masters Programmes comprise three levels of award: Postgraduate Certificate, Postgraduate Diploma and Masters. Students have to complete 9 taught modules of 15 credits each and a dissertation worth of 45 credits to be eligible for the Masters Award.

For the MSc in Computing award, completion of a Computing Skills module is a prerequisite to start the 1<sup>st</sup> study period.

The modules listed in the 1<sup>st</sup> study period need to be completed before one can offer optional modules. The completion of the first study period enables students to receive a Postgraduate Certificate and proceed to study period 2.

Students progress from study period 2 to the Masters stage (on completion of eight modules equivalent to 120 credits) successfully. A pass in 8 modules (or 120 credits) enables the student to receive a Postgraduate Diploma.

In the Masters stage students attend the taught Research Methods and Proposal module, which is a prerequisite for the dissertation.

## Admission Requirements

MSc in Computing Programme is a Conversion Masters Programme that allows students from non-IT/ Computing background to enter the field of computing. Accordingly, the programme is ideally suited to students with non-IT/ Computing degrees. The admission requirements are as follows:

- A good honours degree or
- Recognised qualifications with appropriate industrial experience



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