



University of Mauritius
C-DAC School of Advanced Computing



CD 505 MSc Information Security and Forensics

1. OBJECTIVES

The MSc in Information Security and Forensics offers the opportunity to study a wide variety of topics in depth and prepare the students for a rewarding career in several sectors related to information security. The course aims to groom the students to work on current technology scenarios as well as prepare them to keep pace with the challenging face of ICT and its requirements of highest levels of security.

The programme endeavors to:

- Impart advanced technical and conceptual foundations of information security and forensics.
- Provide specialized and relevant depth and dimensions to the application of information security and forensics in different realms.
- Build a clear perception of the information security mechanisms and primitives, threats and counter-measures.
- Develop an understanding of techniques to analyse security requirements and threats.
- Generate quality manpower to cater to the needs of industry and research & development organizations.

2. GENERAL ENTRY REQUIREMENTS

Successful completion of an undergraduate degree from a recognised higher education institution, with

- at least a Second Class or 50%, whichever is applicable, or
- a GPA not less than 2.5 out of 4 or equivalent.

OR alternative qualifications acceptable to the University of Mauritius.

Mature Students who are older in terms of age (>30) and do not have the General Entry Requirements for admission at University of Mauritius but have a minimum of ANY ONE of the following criteria may also be considered:

- A recognized undergraduate Diploma in relevant field or any other equivalent qualifications acceptable to the University plus at least 15 years' of relevant work experience.
- A Third Class or Pass Degree in relevant field plus at least 7 years' of relevant work experience.

3. PROGRAMME REQUIREMENTS

A degree in Information Technology, Computer Science, Electronics & Communication Engineering, Mathematics with Computing, Physics with Electronics, Information Systems or any other Computer related field from a recognized higher education institution acceptable to the University of Mauritius.

4. PROGRAMME DURATION

| <i>Programme</i> | <i>Normal</i> | <i>Maximum</i> |
|------------------------|---------------|----------------|
| MSc (Part Time) | 1.5 years | 3 years |

Different exit options of the programme are provided below:

| <i>Programme</i> | <i>Core Modules</i> | <i>Dissertation</i> | <i>Total</i> |
|--------------------------|---------------------|---------------------|--------------|
| Postgraduate Certificate | 12 credits | - | 12 |
| Postgraduate Diploma | 24 credits | - | 24 |
| MSc | 24 credits | 12 credits | 36 |

5. PROGRAMME STRUCTURE

SEMESTER 1

| Code | Module Name | Hr (L+P) | Credits |
|-------------|----------------------------------|-----------------|----------------|
| DAC 6104 | Computer Security | 45+0 | 3 |
| DAC 6219 | Network and Internet Security | 45+0 | 3 |
| DAC 6107 | Secure Programming | 30+30 | 3 |
| DAC 6108 | Enterprise and Database Security | 30+30 | 3 |

SEMESTER 2

| Code | Module Name | Hr (L+P) | Credits |
|-------------|---------------------------------|-----------------|----------------|
| DAC 6206 | Cyber Forensics | 30+30 | 3 |
| DAC 6207 | Ethical Hacking | 30+30 | 3 |
| DAC 6208 | Cyber Crime and Law | 45+0 | 3 |
| DAC 6209 | Information Security Management | 45+0 | 3 |

SEMESTER 3

Dissertation

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| DAC 6000 | Dissertation | | 12 |
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C-DAC School of Advanced Computing (C-SAC)

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