

ISCG7400: Computer Systems Security

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|-----------------------------|--|---------------|---|-----------------|----|
| Course number: | ISCG7400 | Level: | 7 | Credits: | 15 |
| Main programme: | BCS | | | | |
| Pre-requisites: | For BCS: ISCG6402 or ISCG6225 For GDCMP: ISCG6402 or ISCG6225 | | | | |
| Co-requisites: | None | | | | |
| Restrictions: | ISCG7249 | | | | |
| Compulsory/elective: | Elective | | | | |

Learning time: 150 hours

| (Lecturer) Contact hours | Non-contact hours | Total hours |
|--------------------------|-------------------|-------------|
| 32.5 | 117.5 | 150 |

Level descriptor:

The student is able to carry out processes that

- require a command of highly specialised technical or scholastic and basic research skills across a major discipline
- involve the full range of procedures in a major discipline
- are applied in complex, variable and specialised contexts requiring
 - knowledge of a major discipline with areas of specialisation in depth
 - the analysis, transformation and evaluation of abstract data and concepts
 - the creation of appropriate responses to resolve given or contextual abstract problems and applied
 - in planning, resourcing and managing processes
 - within broad parameters and functions
 - with complete accountability for determining, achieving and evaluating personal and/or group outcomes.

Critically examine

Evaluate

Derive

Design

Predict

Anticipate

Decide

Recognise

Course aim: To provide students with an insight into computer systems security and carry out advanced tasks in planning, operation and monitoring of comprehensive systems security.

Learning outcomes:

| | Learning outcomes |
|----|--|
| 1. | Critically analyse and describe elements of Computer System Security. |
| 2. | Critically analyse and describe a selection of hardware and physical layer security solutions. |
| 3. | Research and analyse network security issues and solutions from the LAN and WAN (Internet) perspectives. |
| 4. | Critically evaluate platform specific operating systems and application security issues and solutions. |
| 5. | Analyse a given case study with a view to determining and evaluating possible security solutions |