

Learning resources recommended:

## ISCG5420 Programming Fundamentals

<b>Course Number:</b>	ISCG5420	<b>Level:</b>	5	<b>Credits:</b>	15
<b>Main programme:</b>	Bachelor of Computing Systems (BCS)				
<b>Pre-requisites:</b>	For BCS: None For GDCMP: None				
<b>Co-requisites:</b>	None				
<b>Restrictions:</b>	ISCG5235				
<b>Compulsory/elective:</b>	BCS Compulsory GDCMP Elective				

Learning time<sup>1</sup>: 150 hours

Directed (Supervised) Hours	Self-Directed (Unsupervised) Hours	Total Hours
54	96	150

**Level Descriptor:** The student is able to carry out processes that

- require a wide range of specialised technical or scholastic skills
- involve a wide choice of standard and non-standard procedures
- are employed in a variety of routine and non-routine contexts employing
  - a broad knowledge base with substantial depth in some areas
  - analytical interpretation of a wide range of data
  - the determination of appropriate methods and procedures in response to a range of concrete problems with some theoretical elements and applied
    - in self-directed and sometimes directive activity
    - within broad general guidelines or functions
    - with full responsibility for the nature, quantity and quality of outcomes
    - with possible responsibility for the achievement of group outcomes.

Describe

Discuss

Interpret

Analyse

Identify

Discriminate

Distinguish

Monitor

Review

Explore

contexts ...

**Course aim:** To introduce students to the basic principles of designing and developing small computer programs within the context of programming language.