

ISCG5421: Programming Principles and Practice

Course Number:	ISCG5421	Level:	5	Credits:	15
Main programme:	BCS				
Pre-requisites:	For BCS: ISCG5420 or ISCG5235 For GDCMP: ISCG5420 or ISCG5235				
Co-requisites:	None				
Restrictions:	ISCG5239				
Compulsory/elective:	Elective				
Learning time¹: 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

Course aim: To advance the knowledge of programming beyond an introductory level, in the context of a programming language.

Learning Outcomes:

	Learning Outcomes
1.	Identify the fundamental data requirements of an intermediate-level program.
2.	Apply the logic structures of the language.
3.	Select and use intermediate-level data structures and available algorithms.
4.	Write a complete program whilst adhering to available coding standards