ISCG7423: Systems Analysis and Software Development

Course number:	ISCG7423	**Level:**	7	**Credits:**	15
Main programme:	BCS				
Pre-requisites:	For BCS: (ISCG6414 or ISCG6234 or ISCG7132 or ISCG7142) and (ISCG6421 or ISCG6222) For GDCMP: (ISCG6414 or ISCG6234 or ISCG7132 or ISCG7142) and (ISCG6421 or ISCG6222)				
Co-requisites:	None				
Restrictions:	ISCG7252				
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: This course deals with advanced analysis and design principles using the concepts of object-orientation. The students should produce documentation and an application using object based techniques.

Learning outcomes:

	Learning outcomes
1.	Apply the principles of object-oriented analysis and design in an iterative system development life cycle for a case study.
2.	Produce system documentation using a CASE tool.
3.	Design and develop an object oriented application and test plan for a case study.
4.	Present a professional design solution.
5.	Critically reflect on team dynamics and development processes.