

Course title: ADVANCED DATA COMMUNICATIONS

Course number:	ISCG7401	Level:	7	Credits:	15
Main programme:	BCS				
Pre-requisites:	For BCS: ISCG6401 or ISCG6221 Highly recommended: ISCG6405 For GDCMP: ISCG6401				
Co-requisites:	None				
Restrictions:	ISCG7220				
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 the students with knowledge and application of latest development in data communications and networking.

Learning outcomes:

	Learning outcomes
1.	Analyse and describe a selection of the latest LAN and WAN technologies widely used and protocols.
2.	Learn the latest technologies in wireless communications.
3.	Learn about Internet addressing (how messages get to destination)
4.	Describe network security, Internet network, and network management.
5.	Critically evaluate alternative approaches using different network and data communication technologies and techniques in distributed data environments.
6.	Demonstrate skills in gathering information, assessing, planning and implementing efficient data communication techniques.