

COURSE TITLE: ISCG6401 DATA COMMUNICATIONS AND NETWORKS

Course number:	ISCG6401	Level:	6	Credits:	15
Main programme:	BCS				
Pre-requisites:	For BCS ISCG5403 or ISCG5233				
	For GDCMP ISCG5403 or ISCG5233				
	For DiplTS ISCG5403				
Co-requisites:	BCS: ISCG5237 or ISCG5430				
Restrictions:	ISCG6221				
Compulsory/elective:	Elective				
	For DiplTS : Compulsory				

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 wide-ranging highly specialised technical or scholastic skills
- involve a wide choice of standard and non-standard procedures, often in non-standard combinations
- are employed in highly variable routine and non-routine contexts employing
 - specialised knowledge with depth in more than one area
 - the analysis, reformatting and evaluation of a wide range of information
 - the formulation of appropriate responses to resolve both concrete and abstract problems and applied
 - in managing processes
 - within broad parameters for defined activities
 - with complete accountability for determining and achieving personal and/or group outcomes.

Integrate
Estimate
Compare
Contrast
Differentiate

Course Aim: To provide the students with the knowledge of the concepts of data communication and networking.

Learning Outcomes:

1. Describe a selection of network components and protocols.
2. Evaluate the use and function of a selection of data communication hardware.
3. Evaluate a selection of network configurations, apply planning and design issues.
4. Analyse and evaluate a selection of data communication services.

Topics/Content/Outline

Topics include: communication addressing, Tcp/IP protocols, LAN/WAN protocols, case studies on networks.

Chang