### COURSE DETAILS

**Course Code:** F29XO  
**Full Course Title:** Computer Networks  
**SCQF Level:** 9  
**SCAF Credits:** 15  
**Available as Elective:** No

### DELIVERY LEVEL

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<th>Postgraduate Research:</th>
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**Additional Information:**

### COURSE AIMS

To introduce computer network architecture, protocol design and develop design network application systems skills

### LEARNING OUTCOMES – SUBJECT MASTERY

- Understanding computer network architecture and its design principle
- Ability to design network protocol
- Ability to design innovative web application system
- Ability to design and develop

### LEARNING OUTCOMES – PERSONAL ABILITIES

- Ability to learn independently and work in teams
- Communication skills and international perspective

### SYLLABUS
Course requirements and layered architecture

Composition and communication of the transmission system

Principle of frequency division multiplexing, multipoint access, CSMA/CD

Wireless access, IEEE 802.11

Basic problems of routing, OSPF and RIP

Principle and implementation of TCP

Design and implementation of network applications

COURSE RELATIONSHIPS
N/A

LOCATION AND ASSESSMENT METHODS

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