# F29XO Computer Networks

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

## DELIVERY LEVEL
- **Undergraduate:** Yes
- **Postgraduate Taught:** No
- **Postgraduate Research:** No

## 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

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