

COURSE SPECIFICATION DOCUMENT

Academic School / Department:	School of Liberal Arts
Programme:	Computer Science
FHEQ Level:	5
Course Title:	Computer Networks
Course Code:	DGT 5103
Total Hours:	120 (standard 3- credit BA course)
Timetabled Hours:	45
Guided Learning Hours	0
Independent Learning Hours:	75
Semester:	Fall, Spring
Credits:	12 UK CATS credits 6 ECTS credits 3 US credits

Course Description:

This course is about how networks work both as hardware and programming across the internet, wired networks and wireless networks such as LANs, broadband and Bluetooth. The course will also explore in detail the various layers of computer network interfaces to provide efficient and safe systems.

Prerequisites:

GEP 4180

Aims and Objectives:

By the end of this course, students will have the necessary knowledge to understand how the hardware and software relating to computer networks function. They will understand the roles various layers of a computer networks play in providing an efficient network. Students will also be aware of industry standard policy, legal and ethical issues relevant to computer networks.

Programme Outcomes:

COMPSC: A3, A5, A8, B2, B4, B5, C7

A detailed list of the programme outcomes are found in the Programme Specification.

This is located at the archive maintained by Registry and found at:

<https://www.richmond.ac.uk/programme-and-course-specifications/>

Learning Outcomes:

By the end of this course, successful students should be able to:

- Understand the use, types and technology of networks and its' protocols
- Demonstrate understanding of the various layers and access controls of a network system
- Evidence how hardware and software interface to provide an efficient and safe network
- Show understanding of policy, legal and ethical issues relevant to computer networks

Indicative Content:

- Types of networks
- Physical layer
- Data link layer
- Access control
- Network layer
- Transport layer
- Application layer
- Policy, legal and social issues

Assessment:

This course conforms to the University Assessment Norms approved at Academic Board and located at: <https://www.richmond.ac.uk/university-policies/>

Teaching Methodology:

- Lectures, practical demonstrations and step-by-step software tutorials, class workshops, one-to-one tutorials.

Indicative Text(s):

"Computer Networks" by Andrew Tanenbaum, Nick Feamster and David Wetherall, Global (6th) Edition, Pearson, 2021.

Journals/Additional Texts

Baase, S. and Henry, T., 2017. *A Gift of Fire*. 5th ed. NY, NY: Pearson.

Web Sites

Click here to enter text.

See syllabus for complete reading list

Change Log for this CSD:

Nature of Change	Date Approved & Approval Body (School or AB)	Change Actioned by Registry Services
Change of the pre-requisites	Dec 2023	
Total Hours Updated	April 2024	