

Course Outline

Title: MAINFRAME NETWORKING

Code: ITECH3232

Faculty / Portfolio: Faculty of Science

Program Level:

	AQF Level of Program					
	5	6	7	8	9	10
Level						
Introductory						
Intermediate						
Advanced			✓			

Pre-requisites: ITECH1002 & ITECH2116

Co-requisites: Nil

Exclusions: Nil

Progress Units: 15

ASCED Code: 020113

Learning Outcomes:

Knowledge:

- K1.** explain terms and concepts of mainframe networking and communications;
- K2.** describe mainframe network architecture and implementation;
- K3.** describe business problems solved by mainframes and associated mainframe networks;
- K4.** discuss mainframe hardware and associated mainframe connectivity infrastructure;
- K5.** explain the functions and roles of networking professionals;

Skills:

- S1.** interpret and discuss the output of networking utilities;
- S2.** choose the correct networking utility according to requirements;

Application of knowledge and skills:

- A1.** select networking utilities to determine network parameters;

Values and Graduate Attributes:

Values:

- V1.** appreciate the role of networking technical staff in mainframe environments;
- V2.** appreciate network security for data protection and availability;

Graduate Attributes:

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ITECH3232 MAINFRAME NETWORKING

Attribute	Brief Description	Focus
Continuous Learning	In a blended learning approach facilitated by access to a remote mainframe, students build on knowledge and skills gained in previous networking and mainframe courses.	High
Self Reliance	Students will participate in self-directed and collaborative learning activities to develop their theoretical and technical expertise in mainframe networking.	High
Engaged Citizenship	Students learn to work in mainframe environments that are critical to banking, insurance and other essential services.	Low
Social Responsibility	Students will investigate network security and how it applies to data protection, privacy and data availability.	Low

Content:

This course describes networking in mainframe environments.

Topics may include:

- networking in mainframe environments;
- network protocols used in mainframe environments;
- network layers;
- networking hardware in mainframe environments;
- implementation of TCP/IP and SNA protocols in mainframe environments;

Assessment:

Learning Outcomes Assessed	Assessment Task	Assessment Type	Weighting
K1 - K5, S1, S2, A1.	Attend labs, read and summarise theoretical aspects of the course, establish strong familiarity with practical application of material covered	Exercises, laboratories and/or assignments	30 - 50%
K1 - K5, S1, S2, A1.	Lecture attendance, reading of reference material, lecture notes and additional readings	Supervised Test(s) and/or presentations and Examinations	50 - 70%

Adopted Reference Style:

APA

Presentation of Academic Work:

<https://federation.edu.au/students/assistance-support-and-services/academic-support/general-guide-for-the-presentation-of-academic-work>