Important Information

Course Description

This course aims to provide a broad introduction to the fundamentals of data communication and network technology. The emphasis is on data communication from the perspective of computer scientists and information technologists. The course covers the underlying mechanisms and their characteristics that need to be considered by communicating application software.

Topics include:

- principles and reference models of data communication,
- basic operation of communication systems,
- protocols, error handling and applications in networked environments.

Pre-requisites, Co-requisites and Assumed Knowledge

None

Capabilities

Program Learning Outcomes

This course contributes to the program learning outcomes for the following program(s):

BP355 - Bachelor of Cyber Security
BP356 - Bachelor of Cyber Security (Professional)
Major - Cyber Security

- BP094P23 - Bachelor of Computer Science
- BP340P23 - Bachelor of Data Science
- BP347 - Bachelor of Computer Science (Professional)
- BP348 - Bachelor of Data Science (Professional)
- BP162P23 - Bachelor of Information Technology
- BP349 - Bachelor of Information Technology (Professional)

PLO 1 Knowledge - Apply a broad and coherent set of knowledge and skills for developing user-centric information technology solutions for contemporary societal challenges.
PLO 2 Problem Solving - Apply systematic problem solving and decision-making methodologies to identify, design and implement information technology solutions to real world problems, demonstrating the ability to work independently to self-manage processes and projects.
PLO 3 Cognitive and Technical Skill - Critically analyse and evaluate user requirements and