

# SIT202– Computer Networks and Communication

## Task 1.1P: Learning Plan

This is a Pass Task

Computer networks became a vital part of our life and understanding how computer networks work is central to many studies in computing including cyber security, software engineering, computer science, information technology and even data science and artificial intelligence. Through this unit, you will learn how computer networks work and how the devices connected to Internet communicate with each other.

To complete this unit, you need to demonstrate that you can do the following:

- ULO1: Explain the layers of abstraction involved in the computer network protocol stack, and how these enable data to flow between machines within a network.
- ULO2: Design and develop programs that interact with networks at different levels with the network protocol stack to implement and analyse common protocols.
- ULO3: Use industry-relevant networking tools to analyse different network configurations, real network data, networking protocols, and their operations, and provide networking solutions to given problems.
- ULO4: Reflect and critique on how networks and protocols are constructed and apply those concepts in analysing real network issues related to security and scalability.

To help you achieve the above unit learning outcomes (ULOs), this unit is designed around modules. To obtain a Pass grade, you will need to complete all core modules and related pass tasks. To achieve higher grades, you are required to complete all core modules, all pass tasks, and additional tasks to demonstrate your deeper understanding of the concept we learn in this unit.

Different grades require you to demonstrate different skills. The following table outline the main characteristics for each grade.

Pass	Credit	Distinction	High Distinction
Can work through structured resources to iteratively develop understanding. Has a foundational understanding of computer networks and achieve ULOs.	Can effectively utilise feedback to develop their understanding and pays attention to detail to ensure solutions work as expected. Has a good understanding of computer networks.	Can work with little direction, with the persistence and adaptability needed to overcome challenges in building larger solutions. Has the capability to analyse and design computer network solution for different scenarios.	Can work in a proactive, self-directed manner, and demonstrates a degree of passion or inventiveness in their work. Has the capability to conceptualise, design and build elegant and sophisticated computer network solutions for different scenarios.

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When you complete all the tasks up to your target grade, you know that you have demonstrated the required skills and will receive the indicated grade at the end of the unit. You can change your target grade at any point, and the tasks will be automatically updated on OnTrack to show what you need to demonstrate.

Since the number of tasks that you need to complete depends on your target grade, this impacts on the deadlines for each of the tasks. You will have more time to complete the pass tasks if you aim for a Pass than if you aim for a higher grade, and therefore we have set different deadlines depending on your aim in the learning plan document.

Your first task is to select a grade and submit the learning plan in accordance. You will find a document containing a table with all the deadlines in the resources on this OnTrack page. The deadlines are spread across the trimester.

## **Task Submission Instruction**

In this task, all you need to do is upload your learning plan (with the table) found in the resources as a pdf after deleting the unnecessary columns, becoming aware of the deadlines, and signing it. This learning plan will serve as a contract between you and your teaching team. You are expected to submit your tasks according to these deadlines. Variations on the deadlines are possible during the trimester but first you will need to discuss that with your tutor.

What if you are unsure what grade to target? You can change your target grade at any time. For now, just pick the grade you are most comfortable with. If you hesitate between two grades, I advise to pick the higher one. The deadlines will be sooner, and so if you ever need to downgrade, you will simply relax the deadlines.

You will be able to review your learning plan at regular times throughout this trimester, in the reflective tasks. You may need to update the deadlines if you decide to change your target grade, or due to personal or academic circumstances. The new learning plan will need to be approved by your OnTrack tutor, which they will do if it is justified.