



MONASH  
University

# Handbook

## 程序代写代做 CS编程辅导

Unit



# FIT3181 Deep Learning

WeChat: cstutorcs

Assignment Project Exam Help

## Overview

Email: [tutorcs@163.com](mailto:tutorcs@163.com)

QQ: 749389476

<https://tutorcs.com>

Deep learning (DL) has been fuelling Artificial Intelligence (AI) and the Fourth Industrial Revolution in recent years. The success of DL in many applications, including generative AI such as ChatGPT or DALL·E, has gained rocketed attention and becomes a highly demanded skill across industries and sectors. It is transforming innovations, powering new applications and impact our society in everyday activities. In this unit, the students will learn the foundations of deep learning theory within a broader context of machine learning. At the same time, they will gain hands-on practical skills on how to apply DL to real-world applications across a range of AI cognitive tasks in computer vision such as image and object recognition, in natural language processing such as text classification using deep neural embeddings. Learning activities will focus on understand the fundamental concepts in DL such as neural networks (NN), convolutional NN, backpropagation and optimisation for deep learning, adversarial robustness, attention mechanism, transformer, important concepts in deep generative AI (VAE, GAN), in combination with laboratory sessions to gain hands-on experiences.

### Faculty:

[Faculty of Information Technology](#)

### Owning organisational unit:

Faculty of Information Technology

### Study level:

Undergraduate

### SCA band:

2

### EFTSL:

### Credit points:

Open to exchange or study abroad students?

Yes

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## Offerings



S2-01-CLAYTON-ON-CAMPUS

Location: Clayton

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Teaching period: Second semester

Attendance mode: On-campus

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S2-01-MALAYSIA-ON-CAMPUS

Location: Malaysia

QQ: 749389476

Teaching period: Second semester

Attendance mode: On-campus

<https://tutorcs.com>

## Requisites

### Prerequisite

→ FIT2086

6 CP

Modelling for data analysis

## Contacts

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Chief Examiner



Professor Dinh Phung

Email: Dinh.Phung@monash.edu

Offering(s):

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- Applies to all offerings

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Unit Coordinator(s)

Email: tutorcs@163.com

Dr Lim Chern Hong

QQ: 749389476

Email: Lim.ChernHong@monash.edu

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Offering(s):

- Second semester, Malaysia, On-campus

## Learning outcomes

On successful completion of this unit, you should be able to:

1. Describe basic and advanced concepts of machine learning, AI, and deep learning
2. Assess what deep learning is, what makes deep learning work or fail, and critique where they should be applied.
3. Explain fundamental elements of deep learning.

4. Construct deep neural networks, convolutional NNs, RNN, deep generative models and apply different strategies for training them

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5. Apply DL models in real-world applications such as image classification, text translation, image/text generation

6. Develop critical thinking and hands-on experiences with practical deep learning models and frameworks



## Teaching approach

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## Active learning

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## Assessment summary

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This unit has threshold mark hurdles. You must attempt all assessments, achieve at least 40% in the midterm exam and an overall unit mark of 50% or more to pass the unit. If you do not achieve the threshold mark, you will receive a fail grade (NH) and a maximum mark of 45 for the unit.

<https://tutorcs.com>

## Assessment

### Assignment 1

Value %: 25

### Quiz 1

Value %: 10

## Assignment 2

Value %: 20

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## Quiz 2

Value %: 10



## Mid term test

Value %: 35

Hurdle type: Threshold

### Hurdle description:

This task is part of the in-semester assessment hurdle.

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## Scheduled teaching activities

<https://tutorcs.com>

### Laboratories

Total hours: 24 hours

### Offerings:

- Applies to all offerings

### Seminars

Total hours: 24 hours

### Offerings:

- Applies to all offerings

## Workload requirements

### Workload

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Minimum total expected learning outcomes for this unit is 144 hours per semester typically completed through scheduled online and face to face learning activities and independent study. Independent study includes associated reading and preparation for scheduled teaching activities.



### Availability in areas of study

Data Science, Computer Science, Artificial Intelligence

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