



# BMCS3003 Distributed Systems and Parallel Computing

Presented by

Assoc Prof Ts Dr Tew Yiqi  
May 2023

# Lecturers



**Assoc Prof Ir Dr Tew Yiqi**

**Major of Study/Specialization:**  
Computer Engineering, Signal Processing,  
Video Coding

**Area of Interest:**  
Image / Video (H.264, HEVC) Processing,  
Embedded System (Internet of Things),  
Security (Information Hiding)



**Mr Wong Hon Yoon**

**Major of Study/Specialization:**  
Distributed computing

**Area of Interest:**  
Object oriented programming techniques,  
java programming



**Dr Ang Sau Loong**

Penang Branch  
Senior Lecturer



# Course Learning Outcomes

Three learning outcomes for a future computer scientist to learn this course:

- 01** Demonstrate appropriate programming skills with regards to parallel and distributed computing. (P4, PLO3)
- 02** Analyse a given scenario with parallel and distributed computing techniques. (C4, PLO2)
- 03** Discuss the variety of parallel and distributed computing techniques. (C2, PLO1)

# Scores

01

## Midterm Test (40%)

To be conducted in Week 7 / 8  
In lecture class

02

## Assignment (60%)

To be completed in Week 12,  
presented in Week 13 and 14.

03

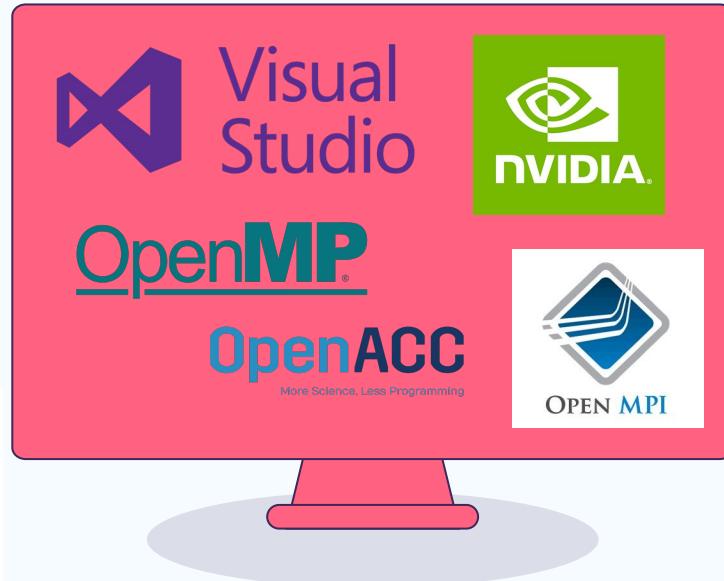
## Final Examination

You have to go through  
Past Years Examination

# Requirements

Make sure you have a computer that runs with Visual Studio 2019 / 2022.

NVIDIA Graphic Card is preferable for CUDA programming.



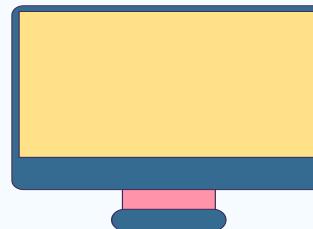
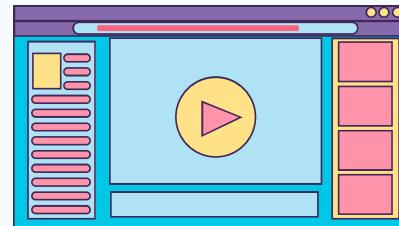
# Alternative resources

Here's an assortment of alternative resources:

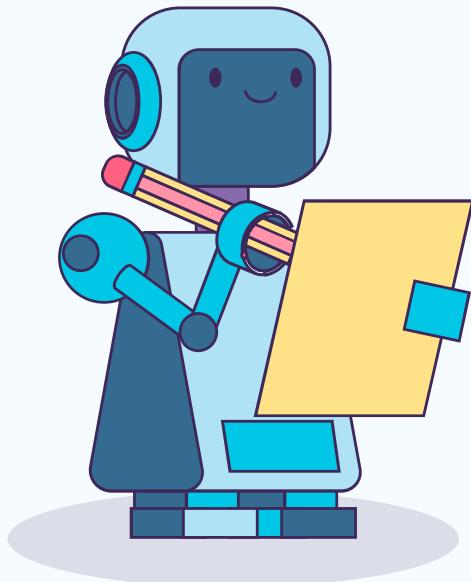
1. NVIDIA Corporation. 2023. CUDA Toolkit Documentation 12.1. Available at:  
<https://docs.nvidia.com/cuda/>
2. OpenACC-standard.org. 2022 Programming and Best practices guide. Available at:  
<https://www.openacc.org/sites/default/files/inline-files/openacc-guide.pdf>
3. OpenMP Architecture Review Board. 2021. OpenMP 5.2 API Syntax Reference Guide. Available at:  
<https://www.openmp.org/wp-content/uploads/OpenMPRefCard-5-2-web.pdf>



**HTTPS**  
SSL



# Thanks!



**Do you have any questions?**

[yiqi@tarc.edu.my](mailto:yiqi@tarc.edu.my)

Email or Google Chat

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