BMCS3003 Distributed System and Parallel Processing

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

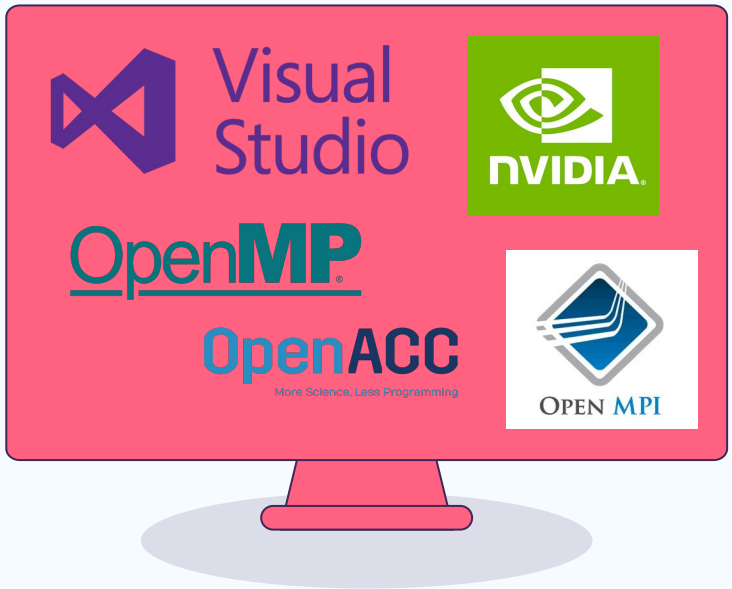
Final Examination

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.



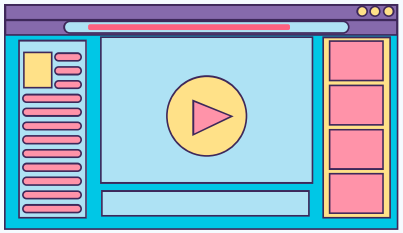
Alternative resources

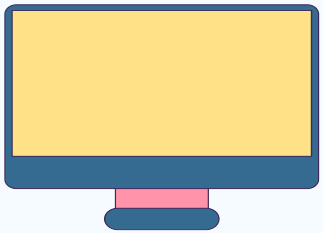
Here's an assortment of alternative resources:

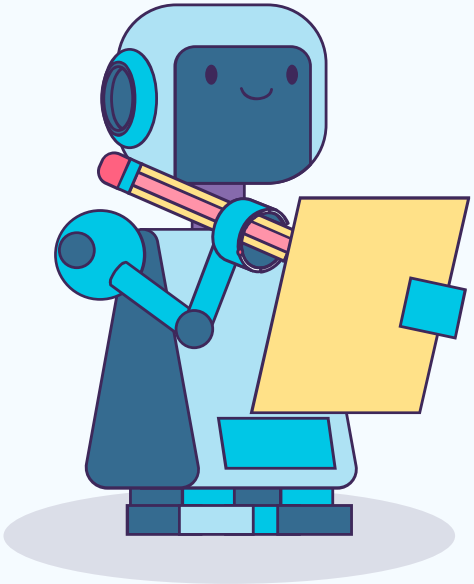
1. NVIDIA Corporation. 2023. CUDA Toolkit Documentation 12.1. Available at: https://docs.nvidia.com/cuda/

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







Thanks!

Do you have any questions?

yiqi@tarc.edu.my

Email or Google Chat

CREDITS: This presentation template was created by **Slidesgo**, and includes icons by **Flaticon**, and infographics & images by **Freepik**