CAPSTONE PROJECT BRIEFING

Capstone Project Discussion

ASIA PACIFIC UNIVERSITY
OF TECHNOLOGY & INNOVATION

Capstone Project

- The Capstone Project is a form of independent research designed to prepare students for professional/industry practice.

- It differs from a conventional research project/dissertation in that the emphasis is on the application of the skills and knowledge acquired during the DSBA course to address a real world problem through the processing and manipulation of actual data sets.

- This contrasts with a traditional research project are often theoretical or academic in the focus and orientation

Capstone Project 2

- The Capstone Project is divided into two modules, Capstone Project 1 (CP1) and Capstone Project 2 (CP2), which delineate between the research and simulation/application stages of the project.

- For CP2 students are required <u>to implement their methodology so as to manifest their proposed solution by integrating knowledge acquired, skills and ideas from previous modules. Student is expected to solve real world problems working across knowledge domains and apply appropriate tools and methods</u>.

Capstone Project 2

✓ Student is expected to solve real world problems working across knowledge domains and apply appropriate tools and methods.

✓ This phase focuses on the research implementation of the project.

✓ Project implementation will be presented as a report followed by oral presentation at the end of the semester.

CLOS

- **CLO1**: Critically evaluate the data acquired as part of the approach in delivering a solution for a real world problem.

- **CLO2**: Display the ability to apply knowledge and skills learned throughout the course and manage the project deliverables.

- **CLO3**: Perform an oral defence to communicate the solution through a final presentation.

MQA's Learning Outcomes

DSBA

Develop analytical and investigative knowledge and skills using data science tools and techniques, and to enhance data science knowledge and critical interpretation skills.

Understand the impact of data science upon modern processes and businesses, identify, and implement specific tools, practices, features and techniques to enhance the analysis of data.

CP2 Structure

- CP1 Structure….

Introduction: Background, Problem Statement, RQs, Aims, Objectives etc

Literature Review: Systematic LR of extent research in your area – with appropriate critique

Methodology: Sufficiently detailed and appropriately justified

Plus……..

- Implementation

- Analysis and discussion

- Conclusion

ASSESSMENT CRITERIA

C1 General Structure, Formatting and Layout

C2 English Writing, Grammar, and Spelling

C3 Modification of First 3 Chapters (Introduction, LR, and RM) based on the comments of CP1

C4 Experiments, Implementation, Tools, Development, Simulation, etc.

C5 Results, Analysis, Findings, and Discussion

C6 Conclusion, Implication, and Recommendations

C7 Citations and References

C8 Oral Presentation

C9 Quality of Presentation Aids

C10 Questions and Answers

Supervisory Meeting

- Meet your supervisor at least 3 times

- Meet your second Marker once (Optional)

- Document your meetings by completing the log sheets

- Appropriately scope your project so as to be able to complete in time!!!

Referencing Style

- APA Referencing Style
- http://library.apiit.edu.my/apa-referencing/

Forms

- Ethics

https://apiit.atlassian.net/wiki/spaces/PBR/pages/1883570313/Research+Ethics

All other documents

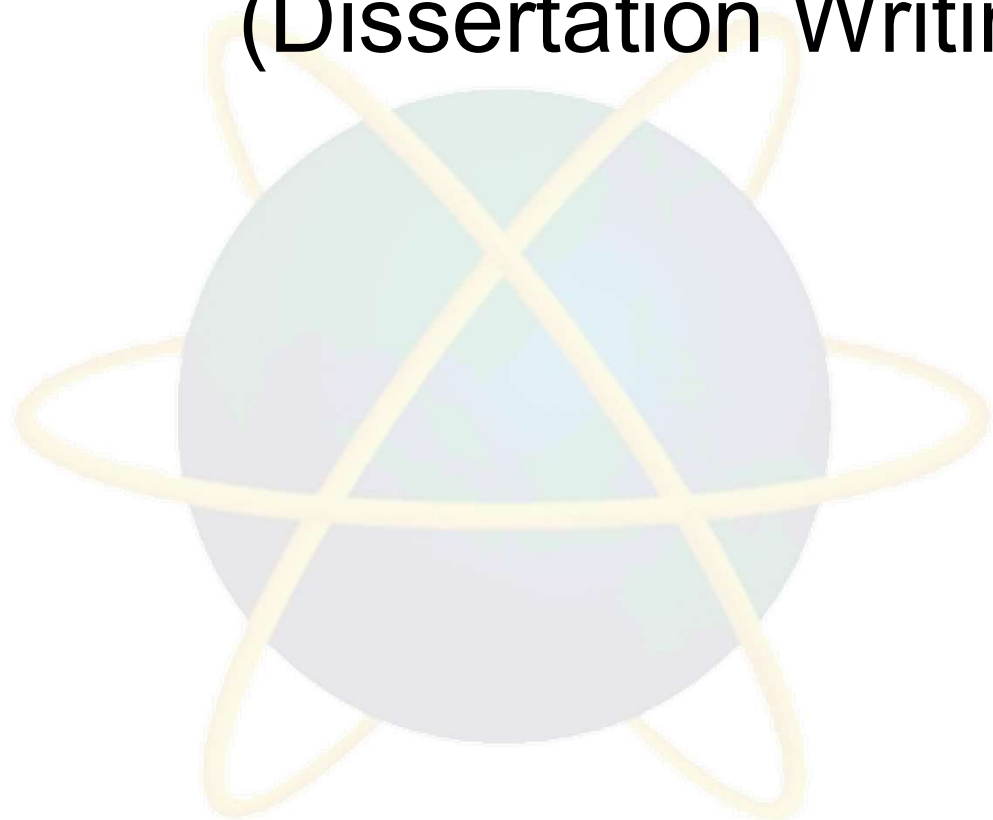https://apiit.atlassian.net/wiki/spaces/PBR/overview

https://apiit.atlassian.net/wiki/spaces/PBR/pages/1721794591/Masters+by+Coursework

Project handbook

- Kindly refer to project handbook for the format, etc.

   (Dissertation Writing guide)

Project Presentation

- Must arrange live presentation with your Supervisor and Second Marker based on their common slots. (Marking is done based on this)

- Post the recording and presentation slides in the submission portal on Moodle (amongst all additional necessary attachments – for record purpose)
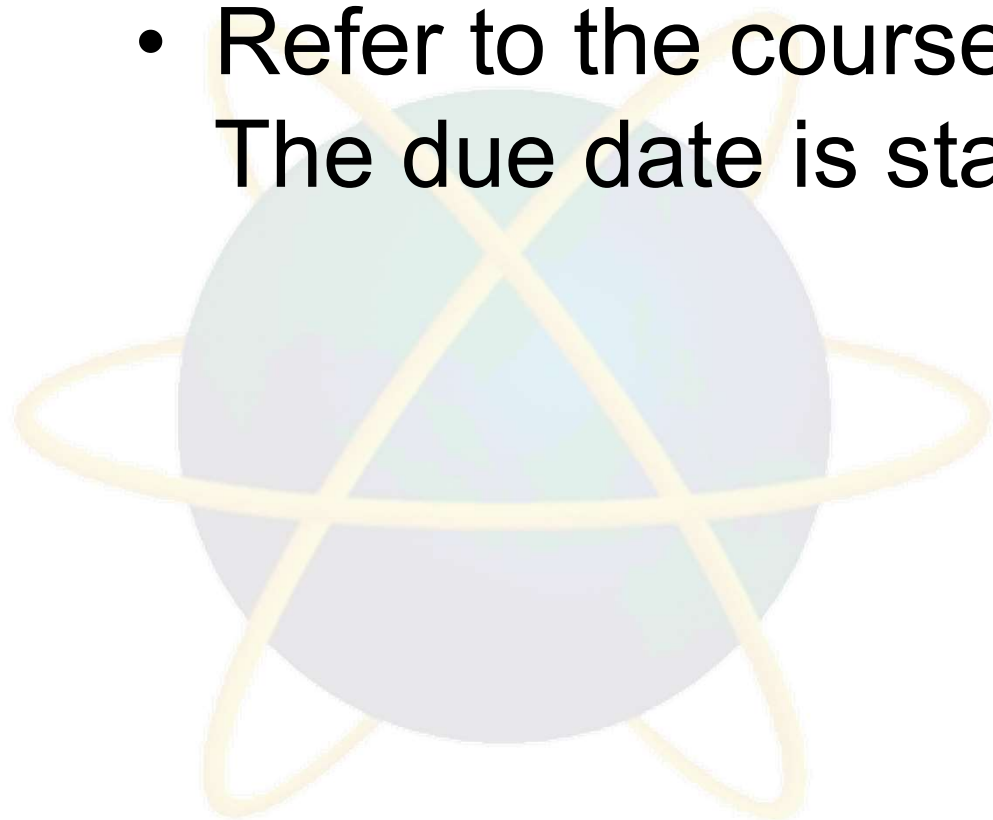
CP2 Presentation Outline

- Background of the study
- Problem Statement
- Project aim, objectives, scope
- Methodology flow
- Implementation
- Experimental Results
- Validation/Evaluation Results
- Conclusions/Recommendations

Note: Demonstrate your System/Model

Project Submission Deadline

- 7th April, 2023.

- Refer to the course schedule in Apspace; The due date is stated in there.

Q & A