UCCD 2003 OBJECT-ORIENTED SYSTEMS ANALYSIS AND DESIGN

Course Overview

Lecturer and Tutor Info.

Lecturer:
Dr. Ku Chin Soon
Room: NG-024
Email: kucs@utar.edu.my

Dr. Lim Jia Qi
Room: NG-046
Email: limjq@utar.edu.my

Course online platform

- WBLE – Post all the course materials, assessment submission and announcement.

- MS Team – Online teaching platform for lectures and tutorials (for those special case that unable to attend physical class with valid reason). You may join the lecture class using team code "**g20f045".** You may join the tutorial group using team code "**g20f045"** under Dr Ku and "**3g9fbm2**" under Dr Lim**.**

Conduct lecture and tutorial class

- All lecture class will be conducted in OTL mode.
- All tutorial class will be conducted in physical mode. Unless there is special case (unable to attend the class due to certain valid reason such as the student is required to quarantine due to close contact with Covid case) upon approval, then the tutorial class will be conducted in hybrid mode.
- Lecture class will be started in Week 1, 24/1/2022.
- Tutorial class will be started in Week 3, 7/2/2022. Only 14/2/2022 onwards, tutorial class will be conducted at physical venue. In this case, tutorial 1 in Week 3 cannot be conducted in physical venue. Therefore, tutorial 1 will be conducted via MS Team.

Course Timetable

Lecture class

Tuesday, 11:00 AM – 12:00 PM, OTL – Ku
Thursday, 10:00 AM – 12:00 PM, OTL – Ku

Tutorial class

Monday, 12:00 PM – 01:00 PM, N004 (T11) – Ku
Monday, 02:00 PM – 03:00 PM, N004 (T14) – Ku
Monday, 03:00 PM – 04:00 PM, N004 (T15) – Ku
Tuesday, 05:00 PM – 06:00 PM, N004 (T10) – Lim
Tuesday, 04:00 PM – 05:00 PM, N001 (T03) – Ku
Tuesday, 05:00 PM – 06:00 PM, N001 (T04) – Ku
Wednesday, 01:00 PM – 02:00 PM, N002 (T09) – Ku
Wednesday, 02:00 PM – 03:00 PM, N002 (T08) – Lim
Wednesday, 04:00 PM – 05:00 PM, N004 (T01) – Lim
Wednesday, 05:00 PM – 06:00 PM, N004 (T02) – Lim
Thursday, 03:00 PM – 04:00 PM, N005 (T05) – Ku
Thursday, 03:00 PM – 04:00 PM, N003 (T07) – Lim
Thursday, 04:00 PM – 05:00 PM, N005 (T06) – Ku
Friday, 02:30 PM – 03:30 PM, N005 (T12) – Lim
Friday, 03:30 PM – 04:30 PM, N005 (T13) – Lim

Public Holiday within Jan 2022 (24/01/2022 – 01/05/2022 (14))

- Tuesday, 01/02/2022 (Chinese New Year) W2
- Wednesday, 02/02/2022 (Chinese New Year) W2
- Tuesday, 19/04/2022 (Nuzul Al-Quran) W13
- Sunday, 01/05/2022 (Labour Day) W14

Assessment Methods

1. **Continuous Assessment – 40%**
   a. Quiz – 5%
      - Planned on Tuesday, Week 5
   b. Mid term – 15%
      - Planned on Thursday, Week 9
   c. Group Assignment – 20%
      - Assignment will break to three major tasks
      - Task A submission date planned on Week 6
      - Task B submission date planned on Week 8
      - Task C submission date planned on Week 11

2. **Final Assessment – 60%**

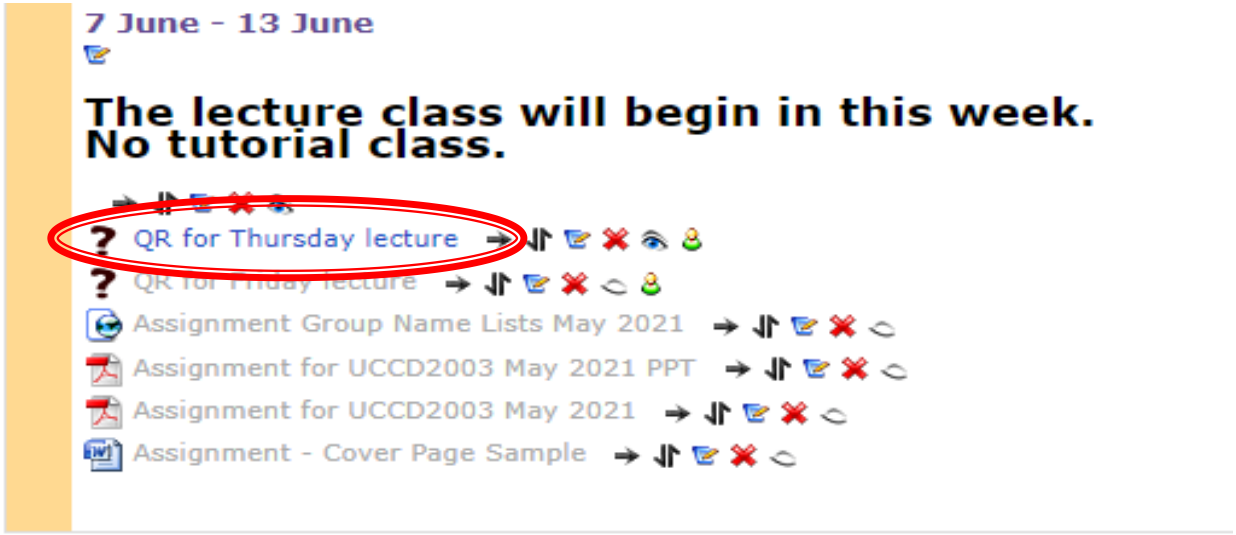
***You are require to get continuous assessment more than 40 out of 100, final assessment more than 40 out of 100 and overall marks (continuous assessment + Final Assessment) more than 50 out of 100.**

Course Attendance

- For all lecture class and tutorial class (via Teams), you are required to check-in your attendance using hi-hive.
- Make sure your hi-hive is the latest version.
- Should you have any question or request for help for Hi-hive apps, please send email to support.hi-hive@silverglobe.com

Course Attendance

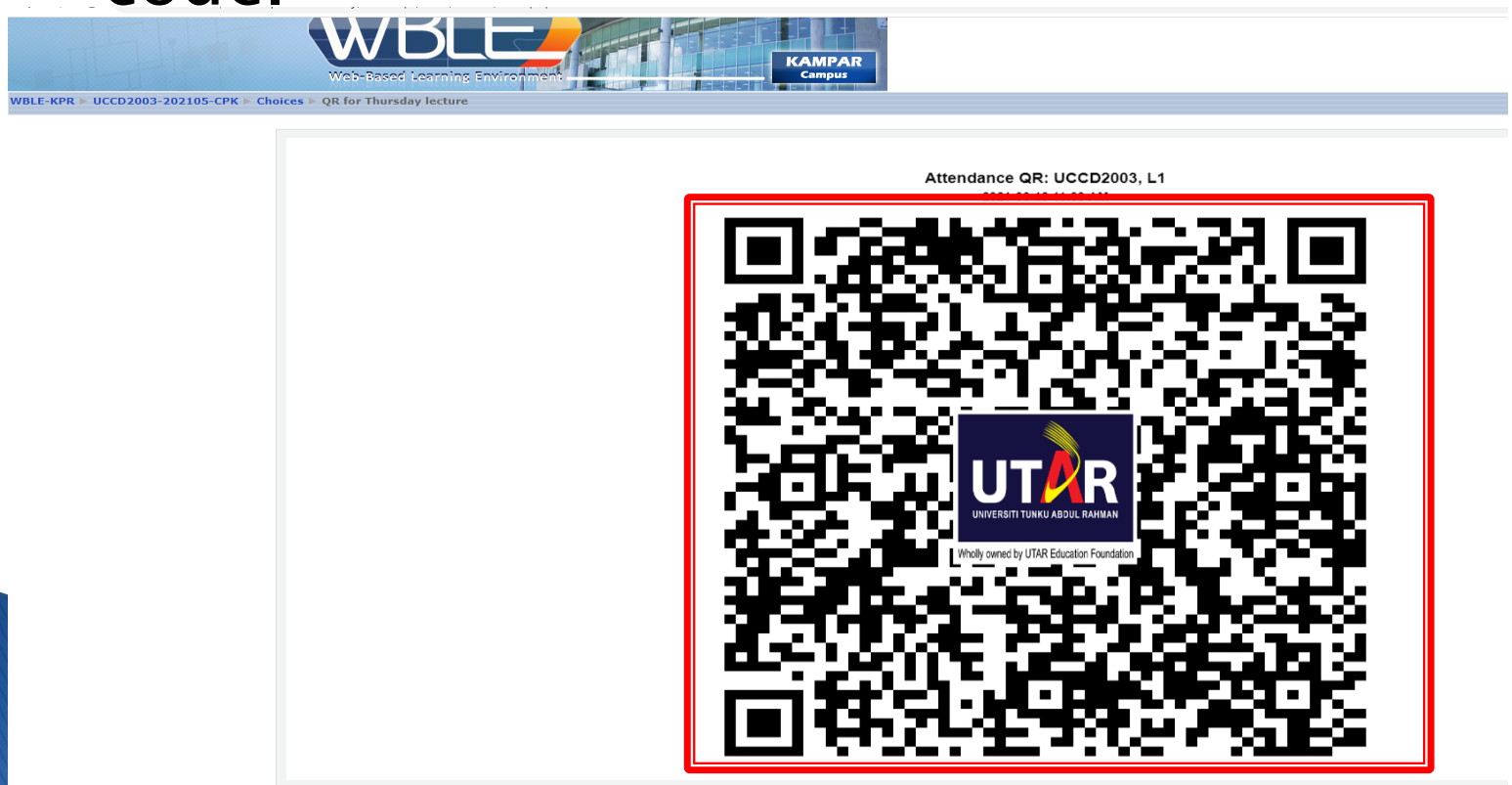
- Login to WBLE.
- Click the related link show as follow:



- [Remark: The link will be visible during the lecture/tutorial session.]

Course Attendance

- Use the hi-hive apps to scan the QR below. Make sure nothing (such as mouse cursor, figure caption text, etc.) is blocking the QR code.



Topics Cover

Topic 1 – Chapter 1a: Introduction to System Analysis and Design
Topic 2 – Chapter 1b: Object Orientation
Topic 3 – Chapter 2: Project Management
Chapter 3: Requirements Determination
Chapter 4: Business Process and Functional Modeling
Chapter 5: Structural Modeling
Chapter 6: Behavioral Modeling
Topic 4 – Chapter 7: System Design
Chapter 8: Class and Method Design
Chapter 9: Database Design
Chapter 10: User Interface Design
Chapter 11: Architecture
Topic 5 – Chapter 12: Implementation

Course Learning Outcomes (CLO)

- 1. Compare the object-oriented system analysis and design methodology with other development methodology approaches like the process centric, data centric and agile development
- 2. Apply the object-oriented concepts (e.g. inheritance, polymorphism, information hiding etc.) in the process of system analysis and design
- 3. Analyse and design Information Systems from the perspective of functional view, structural view and behavioral view
- 4. Model an information system using the Unified Modeling Language (UML)

Recommended Text books:

Main References:

[1] Dennis, A., Wixom, B. H., & Tegarden, D. (2021). System Analysis and Design with UML; An Object Oriented Approach (6th ed.). Hoboken, NJ: John Wiley & Son.

[2] Dennis, A., Wixom, B. H., & Tegarden, D. (2015). System Analysis and Design with UML; An Object Oriented Approach (5th ed.). Hoboken, NJ: John Wiley & Son.

[3] Dennis, A., Wixom, B. H., & Tegarden, D. (2012). System Analysis and Design with UML; An Object Oriented Approach (4th ed.). Hoboken, NJ: John Wiley & Son.

[4] Dennis, A., Wixom, B. H., & Tegarden, D. (2010). System Analysis and Design with UML; An Object Oriented Approach (4th ed.). Hoboken, NJ: John Wiley & Son.

Additional References:

[1] Joseph, S. V., Joey, F. G. (2020). Modern System Analysis and Design. (9th ed.). Hoboken, NJ : Pearson.

[2] Kenneth E. K., Julie E. K. (2020). System Analysis and Design (10th ed.). Harlow : Pearson.