



Data Management Systems Course Syllabus

[2nd Semester 2023/2024]

Course # 0406415

Credit hours 3

Prerequisites/corequisites #0406225

Delivery method: Face to face learning Blended Fully online

Online platform(s): Moodle Microsoft Teams Skype Zoom

Day & Time [Sunday, Tuesday 10:00-11:00]

Instructor Information

Instructor

[Dr. Ehsan Ali Alqararah]

Email

[dr.ehsan@ttu.edu.jo]

Office Location & Hours

[Business Faculty 2nd floor, 12-1pm,
Sun-Wed]

General Information

Description

This course aims to clarify the principles and rules of designing and building data management systems, their types and importance, and the nature of the software and applications of data management systems that are used in the work of organizations.

Expectations and Goals

To introduce the students to the concepts and skills of system analysis and design. It includes expanded coverage of systems types, feasibility analysis, data collection, planning projects, data flow diagrams, data dictionary, process specifications, and reporting. The module focuses on understanding four main topics:

Systems analysis fundamentals, Information requirement analysis, Analysis process and developing solutions, and Quality assurance, implementation and evaluation Course Materials

Required Materials

- Introduction to Information Systems: Supporting and Transforming Business. Brad Prince, R. Kelly Rainer (Wiley), 2022.
- Systems Analysis and Design, Global Edition. Kendall, K.E. and Kendall, J.E. (Pearson Education, 2019).

Optional Materials

- تحليل وتصميم نظم المعلومات. أ.د. سعد غالب ياسين، دار المناهج للنشر والتوزيع 2020.

Course Schedule

Week	Topic	Evaluation Methods	Exercises
[Week 1]	[Chapter 1: Systems, roles and data processing]	[Exam / online work and participation]	[Exercise 1]
[Week 2]	[Chapter 1: Systems, roles and data processing]	[Exam / online work and participation]	[Exercise 2]
[Week 3]	[Chapter 2: knowledge-based system, AI, expert systems and Neural network]	[Exam / online work and participation]	[Exercise 3]
[Week 4]	[Chapter 2: Understanding and modeling organizational systems]	[Exam / online work and participation]	[Exercise 4]
[Week 5]	[Chapter 3: System's lifecycle methodology]	[Exam / online work and participation]	[Exercise 5]
[Week 6]	[Chapter 4: Information gathering]	[Exam / online work and participation]	[Exercise 6]
[Week 7]	[Chapter 5: using data flow diagrams]	[Exam / online work and participation]	[Exercise 7]

Week	Topic	Evaluation Methods	Exercises
[Week 8]	[Chapter 5: using data flow diagrams]	[Exam / online work and participation]	[Exercise 8]
[Week 9]	[Chapter 5: using data flow diagrams]	[Exam / online work and participation]	[Exercise 9]
[Week 10]	[Chapter 6: Database management systems]	[Exam / online work and participation]	[Exercise 10]
[Week 11]	[Chapter 6: Database management systems]	[Exam / online work and participation]	[Exercise 11]
[Week 12]	[Chapter 7: Process specifications and structured decisions]	[Exam / online work and participation]	[Exercise 12]
[Week 13]	[Chapter 8: Prototyping approaches]	[Exam / online work and participation]	[Exercise 13]
[Week 14]	[Project discussion]	[Project defense]	[Exercise 14]
[Week 15-16]	Final Exams		

Exam Schedule

Evaluation Activity	Mark	Topic(s)
[Midterm]	[30%]	TBD
[Participation, Assignments, project and Attendance]	[20%]	
[Final Exam]	[50%]	TBD

Additional Information and Resources

[Course Requirements]

(e.g: students should have a computer, internet connection, webcam, and account on a specific software/platform...etc)

[Course Policies:]

A- Attendance policies: Students are not allowed to miss more than 15% of the classes during the semester. Failing to meet this requirement will be dealt with according to the university disciplinary rules.

B- Absences from exams and submitting assignments on time: If you're absent from one or more of your examinations for medical or other mitigating reasons, you must fill in an Extenuating Evidence form. You can get it from your Faculty Office. Complete it and hand it in to your Faculty Office - with supporting evidence for the end-of-year examinations. If you can't hand in a piece of homework by its deadline, you can't submit it after that.

C- Health and safety procedures: No smoking in the department. Fire alarm call points are red 'Break Glass' boxes and are located on exit routes from the department and elsewhere. Keep all fire doors and fire exit routes clear at all times.

D- Honesty policy regarding cheating, plagiarism, misbehavior: Following the university law and regulations.

E- Grading policy: Following the university law and regulations.

F- Available university services that support achievement in the course: Computer lab with the needed software.