

Course Syllabus

1	Course title	Enterprise Systems Management	
2	Course number	1605728	
3	Credit hours	3	
	Contact hours (theory, practical)	3	
4	Prerequisites/corequisites	-	
5	Program title	MA Business Informatics	
6	Program code	1605	
7	Awarding institution	The University of Jordan	
8	School	School of Business	
9	Department	Management Information Systems	
10	Course level	2 nd year	
11	Year of study and semester (s)	First term 2021/2022	
12	Other department (s) involved in teaching the course	-	
13	Main teaching language	English	
14	Delivery method	XFace to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online	
15	Online platforms(s)	<input type="checkbox"/> Moodle <input type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....	
16	Issuing/Revision Date		

17 Course Coordinator:

Name: Dr. Laila Dahabiyeh

Contact hours: Sun-Thur 12-1

Office number:

Phone number:

Email: Laila.dahabiyeh@ju.edu.jo



18 Other instructors:

Name:

Office number:

Phone number:

Email:

Contact hours:

Name:

Office number:

Phone number:

Email:

Contact hours:

19 Course Description:

As stated in the approved study plan.

This course provides in-depth coverage about some of the most pressing and contemporary issues in digital technologies. It will introduce and discuss hot topics in enterprise digital technologies. These are: cloud computing, internet of things, and artificial intelligence. Throughout the course, we will discuss the architecture of these technologies, how they are used by businesses and ethical issues rising from using them.

20 Course aims and outcomes:

A- Aims:

- introduce students to digital technology trends and providing in-depth coverage of their types and uses.
- Discuss case studies on the adoption of cloud computing, IoT and AI.
- Identify and evaluate the ethical consequences related to digital technologies and how to address them.

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

SLOs SLOs of the course	PLO (1)	PLO (2)	PLO (3)	PLO (4)
1. Explain new digital technological trends			X	X
2. Compare between the different types of digital technologies			X	X
3. Evaluate the costs and benefits of digital technology adoption			X	X
4. Analyze the ethical consequences related to technology adoption.			X	X

21. Topic Outline and Schedule:

Week	Lecture	Topic	Intended Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1	1.1	Introduction + cloud computing	SLO1+2	Face-to-face		Sync.	Presentat ion + essay + exams	Check references section
	1.2							
	1.3							
2	2.1	Cloud computing	SLO1+2	Face-to-face		Sync.	Presentat ion + essay + exams	
	2.2							
	2.3							
Week	Lecture	Topic	Intended Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
3	3.1	Cloud computing	SLO2+3	Face-to-face		Sync.	Presentat ion + essay + exams	Case studies
	3.2							
	3.3							
4	4.1	IoT	SLO1+2	Face-to-face		Sync.	Presentat ion + essay + exams	
	4.2							
	4.3							

5	5.1	IoT	SLO1-4	Face-to-face		Sync.	Presentat ion + essay + exams	
	5.2							
	5.3							
6	6.1	IoT	SLO1-4	Face-to-face		Sync.	Presentat ion + essay + exams	Discuss ion paper + case study
	6.2							
	6.3							
7	7.1	AI	SLO1+2	Face-to-face		Sync.		
	7.2							
	7.3							
8	8.1	Mid-term exam		Face-to-face		Sync.	Presentat ion + essay + exams	
	8.2							
	8.3							
9	9.1	AI	SLO1-4	Face-to-face		Sync.	Presentat ion + essay + exams	Discuss ion paper
	9.2							
	9.3							
10	10.1	AI	SLO1-4	Face-to-face		Sync.	Presentat ion + essay + exams	
	10.2							

	10.3							
11	11.1	AI+ Ethics	SLO4	Face-to-face		Sync.	Presentat ion + essay + exams	
	11.2							
	11.3							
12	12.1	Ethics	SLO4	Face-to-face		Sync.	Presentat ion + essay + exams	Case study
	12.2							
	12.3							
13	13.1	Presentation		Face-to-face		Sync.	Presentat ion	
	13.2							
	13.3							
14	14.1	Presentation		Face-to-face		Sync.	Presentat ion	
	14.2							
	14.3							
15	15.1							
	15.2							
	15.3							

22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
Presentation	10	Open	SLO1-4	Weeks 13,14 or throughout the term	On campus
Essay	20		SLO1-4	Week 13	E-learning
Mid-term exam	30		SLO1-3	Week 8	On campus
Final exam	40	All topics covered	SLO1-4	Week 16	On campus

23 Course Requirements

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

24 Course Policies:

A- Attendance policies:

B- Absences from exams and submitting assignments on time:

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

E- Grading policy:

F- Available university services that support achievement in the course:



25 References:

A- Required book(s), assigned reading and audio-visuuls:

Cloud Computing:

1. Castro, P., Ishakian, V., Muthusamy, V. and Slominski, A., 2019. The rise of serverless computing. *Communications of the ACM*, 62(12), pp.44-54.
2. Hwang, K., Dongarra, J. and Fox, G.C., 2013. *Distributed and cloud computing: from parallel processing to the internet of things*. Morgan kaufmann.
3. Maresova, P. and Kacetl, J., 2015. Cloud computing in the public sector–Case study in educational institution. *Procedia-Social and Behavioral Sciences*, 182, pp.341-348. ----- **Case study**
4. Tripathi, S. and Nasina, J., 2017. Adoption of cloud computing in business: A multi-case approach to evaluate the fit-viability model (FVM). *International Journal of Business and Information*, 12(1), pp.39-64.
5. Varghese, B. and Buyya, R., 2018. Next generation cloud computing: New trends and research directions. *Future Generation Computer Systems*, 79, pp.849-861.

Internet-of-Things:

1. Aleisa, N. and Renaud, K., 2017, January. Privacy of the Internet of Things: a systematic literature review. In *Hawaii International Conference on System Sciences 2017* (pp. 5947-5956).
2. Chahal, R.K., Kumar, N. and Batra, S., 2020. Trust management in social Internet of Things: A taxonomy, open issues, and challenges. *Computer Communications*, 150, pp.13-46.
3. Sicari, S., Cappiello, C., De Pellegrini, F., Miorandi, D. and Coen-Porisini, A., 2016. A security-and quality-aware system architecture for Internet of Things. *Information Systems Frontiers*, 18(4), pp.665-677. ----- **Discussion paper**
4. Bai, G., Zhao, L. and Wang, Z.E., 2018. Advantech: evolution of its IoT ecosystem strategy. *Emerald Emerging Markets Case Studies*. ----- **Case study**

Artificial Intelligence:

1. Taulli, T., 2019. *Artificial Intelligence Basics: A Non-Technical Introduction*. 1st ed.
2. Stahi, B.C., 2021. *Artificial Intelligence for a Better Future: An Ecosystem Perspective on the Ethics of AI and Emerging Digital Technologies*. 1st ed.
3. Marcus, G., 2018. Deep learning: A critical appraisal. *arXiv preprint arXiv:1801.00631*. ----- **Discussion paper**
4. Automated healthcare App. Princeton University ----- **Case study**



B- Recommended books, materials, and media:

26 Additional information:

Name of Course Coordinator: Laila Dahabiyeh -Signature: ----- Date: -27/09/2021
Head of Curriculum Committee/Department: ----- Signature: ----- ---
Head of Department: Dr. Rand Dmour -- Signature: -----
Head of Curriculum Committee/Faculty: ----- Signature: ----- -
Dean: -Prof Fayez Haddad ----- Signature: -----