



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Mobile Web Applications
2	Course number	(1904735)
3	Credit hours (theory, practical)	3 theory
	Contact hours (theory, practical)	3 theory
4	Prerequisites/corequisites	-----
5	Program title	Master of Web Intelligence
6	Program code	4
7	Awarding institution	The University of Jordan
8	Faculty	King Abdullah II School for Information Technology
9	Department	Business Information Technology Department
10	Level of course	1st Year/2nd Year
11	Year of study and semester (s)	Any
12	Final Qualification	Master(Msc)
13	Other department (s) involved in teaching the course	none
14	Language of Instruction	English
15	Date of production/revision	production : 1-9-2016/ revision :1-10-2016
16	Required/ Elective	Elective

17. Course Coordinator:

Dr. Ibrahim Aljarah

Office numbers
12-1 Sunday, Tuesday, Wednesday
22637
i.aljarah@ju.edu.jo

18. Other instructors:

None

19. Course Description:

This course will cover advanced topics for web application development such as the architecture, standards, mobile programming languages and business aspects. This course introduces the concepts, practices, and technologies to design, develop, and manage cross-platform applications running on modern mobile devices. The course will help the students to identify and use the appropriate development technologies, tools, and frameworks for mobile web development. Moreover, it will study, compare and analyze user interactions between desktop web, mobile application, and mobile web.

Objectives:

- **Discussing state-of-the-art research results in mobile web development**
- **Conveying the basic ideas and advanced technologies in mobile web development**
- **Introducing some mobile web development tools, frameworks, and technologies.**

Intended Learning Outcomes:

Upon completion of the course, students will be able to:

- A1. Be exposed to technology and business trends impacting mobile applications**
- A2. Be competent with the characterization and architecture of mobile applications.**
- A3. Be competent with understanding enterprise scale requirements of mobile applications**
- A4. Be competent with designing and developing mobile applications using one application development framework**

21. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
History of mobile application frameworks Characteristics of mobile applications	1	Dr. Ibrahim Aljarah	A1	Exams, Assignments, Oral questions	Text books, Research papers
Overview of the Android framework Overview of the Objective C, Swift frameworks	2-3	Dr. Ibrahim Aljarah	A2	=	=
Application models of mobile application frameworks	4-5	Dr. Ibrahim Aljarah	A2	=	=
User-interface design for mobile applications	6	Dr. Ibrahim Aljarah	A2	=	=
Managing application data	7-8	Dr. Ibrahim Aljarah	A3	=	=
Midterm Exam	9	Dr. Ibrahim Aljarah	A1+A2+A3	=	=
Integrating with cloud services	10	Dr. Ibrahim Aljarah	A4	=	=
Integrating networking, the OS and hardware into mobile-applications	11	Dr. Ibrahim Aljarah	A4	=	=
Addressing enterprise requirements in mobile applications: performance, scalability, modifiability, availability and security	12	Dr. Ibrahim Aljarah	A4	=	=
Testing methodologies for mobile applications	13-14	Dr. Ibrahim Aljarah	A4	=	=
Publishing, deployment, maintenance, and management	15	Dr. Ibrahim Aljarah	A1+A2+A3+A4	=	=
Final Exam	16	Dr. Ibrahim Aljarah	A1+A2+A3+A4	=	=

22. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Lecture, lab and presentations

23. Evaluation Methods and Course Requirements:**Teaching (T) Strategies**

Class Contact is 3 Hours per week. The Course will be delivered using different means like lecture, presentations, seminars, discussion and case studies.

Learning (L) Methods

Students attend classes, ask questions and participate in discussions, do the home works, present the assignments and demo their works. A student will use the lab and select a programming language to implement the assignments. Students will access the e-learning platform for more instruction and supported learning materials

Assessment (A) Methods

There will be several assessment methods of evaluation the performance of the students such as attending and class participation, grading the homework, quizzes and assignments; conducting the Midterm and the Final Exams. Every student is expected to completely adhere to the assignments and project strict deadlines, absolutely no exceptions will be given.

24. Course Policies:**A- Attendance policies:**

Maximum allowable absence 15% of number of Lectures/Semester

B- Absences from exams and handing in assignments on time:

It is the student's responsibility to ensure that he/she is aware of all assignments, announcements and contents of missed sessions

C- Health and safety procedures:

Practical sessions need labs which are suitable adjustable chairs, safe computers and wires should be well organized.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

It is the student's responsibility to ensure that he/she is adhere with cheating, plagiarism, misbehaviour

E- Grading policy:**Intended (Tentative) Grading Scale:**

Range	LG	الحرف	Range	LG	الحرف
91 - 100	A	أ	74 - 77	B-	-ب
86 - 89	A-	-أ	70 - 73	C+	+ج
82 - 85	B+	+ب	66 - 69	C	ج
78 - 81	B	ب	61 - 65	C-	-ج

Grading and Evaluation Criteria: 100 points distributed as follows:

Weight	Criteria	Comments
30%	Midterm Exam	TBA (in due course)
15%	Assignments	TBA (in due course)
15%	Project	Class participation

40%	Final Exam	TBA (in due course)
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F- Available university services that support achievement in the course:

Computer Labs.

25. Required equipment:

- 1- Personal computers in a lab.
- 2- Data show

26. References:

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27. Additional information:

1. The honor code applies to all work turned in for this course including exams and assignments. It is important that you understand the solutions to all problems, and the best way to gain an understanding is to work them out and write them up by yourself. Hence the policy is that you must submit your own work and clearly list your references. You may not share your work with other students, unless it is allowed as group. Violating the policy will be taken as a no submission state for the assignment. University regulations will be preserved at all times.
2. Tardiness and/or absenteeism will have a negative impact on the course grade.
3. الامتناع المدير عن حضور المحاضرات أو الدروس أو عن الأعمال الأخرى التي تقضي الأنظمة بالمواطبة عليها ، وكل تحريض على هذا الامتناع سوف يؤدي الى حرمان الطالب من المادة المعنية.
4. في حالة التغيب عن الامتحانين الأول و الثاني لن يكون هناك امتحان تعويضي الا في حالة وجود عذر وحالة طارئة من المستشفى. على الطالب ابراز العذر لمدرس المادة في فتره لا تتجاوز الثلاثة ايام من تاريخ الامتحان, وللمدرس الحق في قبول او رفض العذر , وحسب التعليمات.
5. Concerns or complaints should be expressed in the first instance to the module lecturer; if no resolution is forthcoming then the issue should be brought to the attention of the module coordinator (for multiple sections) who will take the concerns to the module representative meeting. Thereafter problems are dealt with by the Department Chair and if still unresolved the Dean and then ultimately the Vice President. For the final complaints, there will be a committee to review grading the final exam.
6. For more details on University regulations please visit <http://www.ju.edu.jo/rules/index.htm>

Name of Course Coordinator: -Ibrahim Aljarah-----

Signature: -----Ibrahim-----

Date: 18-4-2016-----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:

Head of Department
Assistant Dean for Quality Assurance
Course File