1.	School	**School of Educational Sciences**
2.	Department	**Curriculum and Instruction**
3.	Program title (Arabic)	الدكتوراة في تكنولوجيا التعليم
4.	Program title (English)	**PhD in Educational Technology**

	Specialization #	Degree	Dep #	Faculty #	Year	Track
Plan Number		9	02	08	2017	thesis

First: General Rules & Conditions:

1. This plan conforms to valid regulations of the graduate studies programs in the University of Jordan.
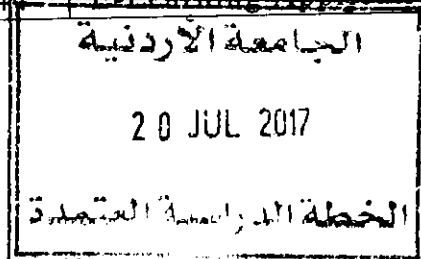
2. Specialties Accepted for Admission:

- First Priority: Masters in Curriculum and Instruction/ Educational Technology, and Masters in Educational Technology from Colleges of Educational Sciences.

- Second Priority: Masters in any of the IT specialties, Masters in Computer Engineering, Masters in Graphic Design.

Second: Special Conditions:

Third: Study Plan: Studying (54) Credit Hours as follows:
   1. **Obligatory Courses (21) credit hours:**

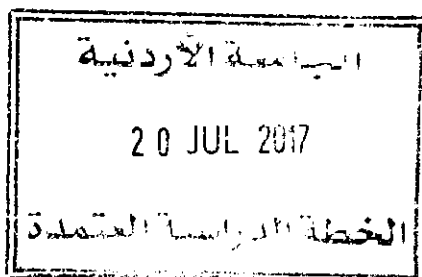| Course No.	Course Title	Credit Hrs	Theory	Practical	Pre/Co-requisite
0802945	Research in Educational Technology	3	3	-	-
0852918	Open and Distance Learning	3	3	-	-
0802926	Instructional Design in Modern Electronic Learning Environments	3	3	-	-
0802935	Designing and Producing Educational Software	3	3	-	-
0802937	Multimedia Applications in Education	3	3	-	-
0802939	Technological Applications in Education for Students with Special Needs	3	3	-	-
0802944	E-Learning Applications	3	3		-

2. Elective Courses (15) Credit Hours: from the following:

Course No.	Course Title	Credit Hrs	Theory	Practical	Pre/Co-requisite
0832920	Advanced Educational Psychology	3	3		-
0802924	Educational Communication and Social Networking	3	3		-
0802928	E-learning Quality Management	3	3		-
0832930	E-Learning Management Systems	3	3		-
0832932	Desktop Publishing Applications in Education	3	3		-
0802934	Teaching Online Courses	3	3		-
0802936	Developing E-learning Environments	3	3		-
0832940	Professional Leadership in Technology	3	3		-
0802942	Special Topics in Instructional Technology	3	3		-

3. Passing the qualifying exam (0832998).

4. Dissertation: (18) Credit hours (0842999).

1

Course Descriptions:

(0802945) (Research in Educational Technology)

This course concentrates on the various domains of research in Educational Technology, methodologies and approaches used in these domains, and the design of different types of data collection instruments. In addition, this course will show students how to conduct research in various educational technology topics as well as introduce students to the qualitative and quantitative analytical methods.
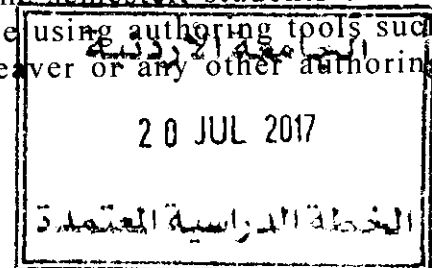
(0852918) (Open and Distance Learning)

This course includes topics that are related to distance learning (its definition, philosophy, importance, justifications, historical and theoretical perspectives); designing, producing & using instructional materials for distance learning; using advanced information technology in human communication such as Learning Management Systems (LMS), e-mails, teleconferences, hypermedia in addition to printed materials and others. It also discusses some issues and trends related to distance learning, such as open universities: their history and development; barriers of distance learning; examples of open universities; open learning criteria; mechanisms for quality assurance in distance learning; faculty development.

(0802926) Instructional Design in Modern Electronic Learning Environments

This course provides a systematic design of instructional materials for modern e-learning settings. Students will design a blueprint for an instructional module by applying an instructional design model. Students will also develop an instructional module using systematic development models and established principles of instructional design for e-learning teaching and learning purposes. Furthermore, this course emphasizes on advanced problems in the design, development, evaluation and management of instructional programs for education and corporate environments.

(0802935) Designing and Producing Educational Software

This course aims to provide students with the necessary skills to design and produce multimedia software. Whereas the emphasis in this course is on the Instructional Concepts, the produced software will include some types of instructional design such as Drill and Practice, Tutorials, Simulation, Instructional Games and Dialogue. At the end of the semester, students should be able to develop a prototype instructional module using authoring tools such as Power point, Tool Book, Visual Basic Dreamweaver or any other authoring tools.

2

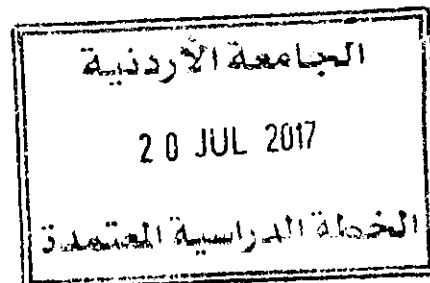## (0802937) Multimedia Applications in Education

This course will examine the latest multimedia development in education. Students will learn how to use various multimedia software including Macromedia Flash, Macromedia Director and other basic video, audio, and image editing software for curriculum development and instructional design. An emphasis will be placed on the application of cognitive and psychological principles to the design and development of multimedia learning. The course covers an overview of tools used in web-based applications. Students will learn and get familiar with various tools in Web design and development including html. Students will create multimedia learning projects to meet the needs of learners with different learning styles.

(0802939) Technological Applications in Education for Students with Special Needs

This course examines concepts for students with special needs, namely the various disability categories: mental, visual, emotional, hearing, physical, learning difficulties, speech and language problems, multiple disabilities, and talented and gifted students. This course emphasizes educational needs for students with special needs, designing and enhancing the learning environment to facilitate learning for students with special needs, technology in special needs education, and assistive technology for students with learning disabilities.

(0802944) E-Learning Applications

The main objective of this course is to provide students with the basic knowledge of E-Learning and how to apply and evaluate it. It covers a range of topics including: introducing E-Learning, an overview of E-learning concepts and techniques, learning methodologies, learning theories and information interpretation, justifying E-Learning to top management, e-Learning strategies, building and managing an E-Learning infrastructure, content development, content delivery, tools needed to build an E-Learning course, integrating E-Learning and classroom learning, E-Learning and distance learning, applications and case studies, future trends. The practical part of this course involves using suitable Ee-Learning tools such as Blackboard or Moodle along with practical applications and study cases.

3

الجامعة الأردنية
رقم النموذج: QF-AQAC-02.03

الخطة الدراسية دكتوراه
الإصدار: 01

مركز الاعتماد وضمان الجودة
التاريخ: 2016/4/1

(0832920) Advanced Educational Psychology

This course covers the concept of educational psychology, research methodologies in educational psychology, educational goals, growth, intelligence, theories of behavioral and cognitive learning, strategy-aided remembrance, measurement and evaluation, and social topics in educational psychology and motivation.

(0802924) Educational Communication and Social Networking

This course introduces students to the aspects of educational communication, its importance in the entire process of teaching & learning, and classroom management in particular. The importance of two-way communication (between, teachers and students) is elaborated with emphasis on the types of educational communications (horizontal vs. vertical), its aspects and components, and characteristics of good communication. It also addresses social networking and its different kinds and characteristics and how to use these networks in teaching with an emphasis on the pros and cons of social networking sites.

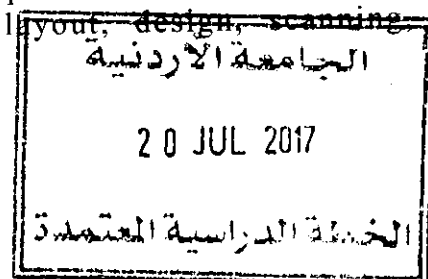## (0802928) E-learning Quality Management

This course deals with the concept of quality management and total quality management in terms of its concept, principles and requirements, its implementation procedures, and planning for E-learning quality content, quality control of E-learning courses. As well as the international quality management systems and international experiences in the quality management of E-learning.

(083293) E-Learning Management Systems

This course deals with the historical development of E-learning management systems and its instructional content and the comparison between them, and their relationship with E-learning and its benefits and components; examples of closed and open source educational systems will be presented. The course also includes an explanation of how to design E-learning courses according to the international standards and how to upload the instructional content on a set of instructional systems.

(0832932) Desktop Publishing Applications in Education

This course is designed to help students to explore basic issues of desktop publishing for technical documents, including layout, design, scanning, and graphics in teaching and learning settings.

(0802934) Teaching Online Courses

This course investigates issues related to teaching online. The focus is on the practical application of tools and techniques for online learning. This course will provide students with the knowledge and skills needed to facilitate online courses and activities. Students will gain experiences in developing communication guidelines with students, facilitating online discussion and collaboration, planning and use of interactive tools including administrative, discussion, and collaboration/production tools.

(0802936) Developing E-learning Environments

This course focuses on planning, designing, and developing E-learning instruction for educational and training settings. Implementation of online course elements such as student interaction, course management, testing, and content delivery using learning management environments and open courseware, as well as available methodologies for various teaching and learning environments that support curriculum development will be used.

(0832940) Professional Leadership in Technology

The major theme of this course is to help understanding the critical role of leadership in the effective application and integration of technology into the learning process and administrative functions of an organization. This may be done by providing students with the theoretical background of educational leadership within a systematic framework with its multifaceted dimensions (societal and institutional), as well as the practical skills in different areas of leadership: personal, interpersonal, team, and systems, to enable them to function as outstanding leaders committed to reform and continuous improvement of education. It is critical that leaders understand the importance of developing a shared vision of the role of technology in the teaching-learning experience, comprehend the change process, and learn how to develop a strategic plan to guide the implementation and evaluation of technology.

(0802942) (Special Topics in Instructional Technology)

This course addresses topics and issues related to instructional technology and E-learning, the potential of new technology, legal and philosophical issues associated with the implementation of technology, and the new developments in technology and the possibility of using them in schools and universities.