Masters of Education in Instructional Technology (Jordan and Oman)

Course	Course Description
ED 601 Curriculum Analysis and Development	This course examines topics in curriculum analysis and development. Topics include: The key concepts of curriculum, curriculum theories, building the foundations of the curriculum, elements of the curriculum, curriculum planning, curriculum development procedures, curriculum development strategies, curriculum models, curriculum design, curriculum mapping, executing developed curriculum, curriculum analysis, curriculum evaluation, and standards for curriculum evaluation.
ED 618 Instructional Design	This course examines the following topics: Identifying the problem, learner analysis, task analysis, specifying the instructional objectives, sequencing the instruction, Instructional strategies, message design, developing evaluation instrument, and developing the instructional material.
ED 623 Educational Psychology	This course examines the following topics: Learning theories, learning and cognition, Individual differences, behavioral perspective, cognitive perspective, developmental perspective, social cognitive perspective, constructivist perspective, and social interaction in school.
ED 627 Educational Communication	This course introduces students to the concept of educational communication, its models and importance to the entire process of teaching and learning. The types of communication (student-content, student-teacher, student-student) are elaborated with emphasis on hierarchical interaction of each type, and employing them in both traditional (printed content, classroom) and modern environments of communication (video conferences, LMS forums, social media).
ED 631 Open and Distance Education	This course examines the following topics: Global change and challenges to education, the role of open and distance learning in educational innovation, the potential of open and distance learning, media for delivering global education, students and technology –mediated education, components of distance learning systems, cost- efficiency of open and distance learning, factors affecting the cost of open and distance learning, present trends in open and distance learning.
ED 632 Research Methodology	This course deals with the nature of research and various educational research methodologies, defining research problem, reviewing the literature, research questions, characteristics of good research questions, variables and hypotheses, sampling, instrumentation, validity and reliability, and internal validity. This course also focuses on quantitative research methodologies, and writing research proposals and reports.
ED 633 Technology Applications in Education	This course focus on the following topics: Integrating Educational Technology into the Curriculum; Communications, Networks, the Internet, and the World Wide Web; Software and Hardware for Educators; Technology, Digital Media and Curriculum Integration; The Changing Face of Education – Teaching Online; Evaluation Educational Technology and Integration Strategies; Security Issues, Ethics, and Emerging Technologies in Education.
ED 634 Designing and Producing Educational Software	In this course, the integration of theory and practice will be accomplished through learning by design. Students will be able to: study the importance of the entire process of designing and producing educational software; practice the process of designing and producing an educational software; incorporate digitized media in educational software and develop projects which include: designing online courses or working in design teams to solve real-life scenarios and problems. Students will experience some applications and: Authoring Tools.
ED 635 Multimedia	This course examines the following topics: Theoretical background including TPACK and flipped class; framework for online multimedia education styles; Interactive multimedia; Innovative item types for learning and testing, Educational Games; educational item modeling (virtual labs, Geogebra); Educational item authoring; multimedia education on mobile devices; affective education and user evaluation; technological assessment of multimedia systems and digital storytelling and online video conference. Students are expected to apply interactive multimedia

	in real situations.
ED 636 **Internet Applications in Education**	This course examines the following topics: Hardware and software for Internet operation, Information retrieval and search engines, The use of Internet in education, obstacles and difficulties in using Internet for educational purposes, scientific bases for Web page design, web page publishing, Information and communication technologies for online education
ED 639 **Special Topics in Instructional Technology**	This course studies in-depth a number of emerging topics and issues related to instructional technology. They are selected, in consultation with students, from topics which were not dealt with completely or partially in previous courses.
ED 640 **Instructional Technology for Students with Special Needs**	This course examines the following topics: Concepts of special needs: Disability, impairment, handicap, gifted and talented, educational needs for special needs; enhancing learning environment for students with special needs; technology in special needs education, assistive technology for students with special needs
ED641 **Computer Applications in Statistical Analysis**	This course focuses on the following topics: Introduction to SPSS; Input and data cleaning; Modifying Data Values; Sorting and Selecting Data; Descriptive analysis of data; Descriptive statistical tests; Inferential statistical tests; Advanced statistical tests; Reading output files;
ED 642 **Planning and management of instructional technology projects**	This course provides students with comprehensive knowledge and skills of project planning and management in instructional technology operations. Where students will be able to participate in instructional technology projects in their institution. In general, the module deals with the management sector in instructional technology which requires the student to acquire knowledge and skills related to strategic planning, human resources, preparation and organization of work teams and the preparation of financial budgets.
ED698 **Comprehensive Exam**	Passing the comprehensive exam according to the in-use bylaws of the Master programme and the Comprehensive exam regulations at the AOU.
ED 699 **Dissertation**	Students are required to complete an extended in depth study in a topic area of interest within the field of instructional technology. The students will identify a sharply focused issue related to instructional technology for which they have not previously submitted work for assessment within this programme. This allows students to identify a topic area which has relevance to their own professional development, to draw extensively on their own experience and to include a strong comparative dimension to the study.