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# Master's Degree in Health Information Technology



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## Master's Degree in Health Information Technology

Health Information Technology is a new specialization in Jordan and has been introduced in response to challenges and data resulting from rapid demographic and epidemiological changes.

The health sector is witnessing an increasing demand for specializations that are related to population growth and development in the Kingdom, the repercussions of the crises in the region, and the accompanying displacement of large numbers of refugees. This requires the development of health systems that improve the efficiency of employees in the health sector and contribute to the implementation of IT systems to help make effective decisions regarding Jordan's health sector. This new specialization contributes to the development of health information systems, which help to monitor epidemics and communicable diseases, prevent their spread, and organize efforts with regard to vaccination operations. The launch of this specialization aims to meet the needs of the local and regional labor market in order to provide health technology majors, which have received support from the administrative and academic authorities in universities, hospitals, the Ministry of Health, and the relevant professional unions.

### Program Goals:

1. Raising the competency of human resources working in various regulatory environments within health institutions and the Jordanian health sector.
2. Contributing to the implementation of IT systems to help make effective decisions in health institutions and the Jordanian health sector.
3. Improving the competency of employees in the fields of quality and health safety in health institutions and the Jordanian health sector via the optimal use of health information systems.
4. Enabling researchers, lecturers, and those interested in the health sector and health information systems to complete their postgraduate studies in the field of health information technology in Jordan.
5. Achieving a qualitative leap in applied field research in health institutions and the Jordanian health sector by employing cutting edge advances in computing, data and software sciences, as well as quality assurance and information security.
6. Participation in conferences, symposia and research events related to the health sector and IT at the local, regional and international levels.
7. Contributing to the application of critical thinking skills in health technology and health informatics in the Jordanian health sector, and the evaluation of the best available options to support decision makers in this important field.

## The study plan for the Master's Degree in Health Information Technology

Course No.	Thesis Track (33 Credit Hours)	H	Course No.	Comprehensive Track (33 Credit Hours)	H
<b>Compulsory Requirements 30 C.H</b>			<b>Compulsory Requirements 27 C.H</b>		
13770	Health Information Systems	3	13765	Quality Frameworks for Health Innovation	3
13771	Database Management Systems	3	13766	Health Technology Evaluation	3
13772	System Analysis and Modelling	3	13770	Health Information Systems	3
13773	Biostatistics	3	13771	Database Management Systems (Health Informatics)	3
13774	Epidemiology Methods and Uses	3	13772	System Analysis and Modelling	3
13775	Health Information System Security	3	13773	Biostatistics	3
13791	Research Methodology	3	13774	Epidemiology Methods and Uses	3
13779	Thesis	9	13775	Health Information System Security	3
<b>Elective Requirements 3 C.H</b>			13776	Capstone Project	0
13743	Cloud Computing & Big Data	3	13791	Research Methodology	3
13761	AI for Health Systems	3	13797	Comprehensive Exam	0
13762	Enterprise Healthcare Information Systems	3	<b>Elective Requirements 6 C.H</b>		
13763	Medical Image Perception (Processing)	3	13743	Cloud Computing & Big Data	3
13764	Knowledge Management Systems	3	13761	AI for Health Systems	3
13765	Quality Frameworks for Health Innovation	3	13762	Enterprise Healthcare Information Systems	3
13766	Health Technology Evaluation	3	13763	Medical Image Perception (Processing)	3
13767	Qualitative Methodologies & Study Design	3	13764	Knowledge Management Systems	3
13768	Visual Analytics (Data Visualization)	3	13767	Qualitative Methodologies & Study Design	3
13769	Health and Risk Management	3	13768	Visual Analytics (Data Visualization)	3
13777	Special Topics in Health Technology	3	13769	Health and Risk Management	3
14722	Data Mining	3	13777	Special Topics in Health Technology	3
			14277	Data Mining	3