

Vocational School / Medical Documentation and Secretariat

2023 - 2024 Academic Year

HEALTH INFORMATION SYSTEMS

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
HEALTH INFORMATION SYSTEMS	TDS2113880	Fall Semester	2+0	2	5
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Short Cycle (Associate's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Lect. Aslıhan DEMİRCAN				
<b>Name of Lecturer(s)</b>	Lect. Hüseyin SARP KAYA				
<b>Assistant(s)</b>					
<b>Aim</b>	To recognize the basic terminology of informatics, to explain the data and communication standards of health and social security, to recognize the national health information systems, to express the security, privacy and usability aspects of health information systems.				
<b>Course Content</b>	This course contains; Introduction to Information Systems, Health Informatics, International Health Informatics Standards, National Health Informatics Standards, National Health Information Systems, Security and Privacy in Health Information Systems, Basic concepts in Software Development, Basic Methodologies in Software Development, Usability in Information Systems, Group Studies and Presentations I, Group Studies and Presentations II, Group Studies and Presentations III, Group Studies and Presentations IV, Group Studies and Presentations V.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Defines basic concepts and coding and classification systems related to information technology and health informatics.			10, 16, 9	A	
Uses widely adopted health information systems in Turkey, along with their interactions and information security.			10, 16, 9	A	
Explains the development methods of information systems and their usability in national health information systems.			10, 6, 8, 9	A	
<b>Teaching Methods</b>	10: Discussion Method, 16: Question - Answer Technique, 6: Experiential Learning, 8: Flipped Classroom Learning, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Introduction to Information Systems				
2	Health Informatics				
3	International Health Informatics Standards				
4	National Health Informatics Standards				
5	National Health Information Systems				
6	Security and Privacy in Health Information Systems				
7	Basic concepts in Software Development				
8	Basic Methodologies in Software Development				
9	Usability in Information Systems				
10	Group Studies and Presentations I				
11	Group Studies and Presentations II				
12	Group Studies and Presentations III				
13	Group Studies and Presentations IV				
14	Group Studies and Presentations V				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			

Resources
Lecture notes and lab sheets (will be shared regularly on the lecture pages) Edward H. Shortliffe, Medical Informatics: Computer Applications in Health Care and Biomedicine (Health Informatics), Springer (There is no any Turkish book on this topic) Health Information Systems: Concepts, Methodologies, Tools, and Applications. Joel Rodrigues, 2009, ISBN-10: 1605669881, ISBN-13: 978-1605669885