Vocational School / Medical Documentation and Secreteriat

2022 - 2023 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

Prerequisites Courses	
Recommended Elective Courses	
Language of Instruction	Turkish
Course Level	Short Cycle (Associate's Degree)
Course Type	Required
Course Coordinator	Lect. Aslıhan DEMİRCAN
Name of Lecturer(s)	Lect. Hüseyin SARPKAYA
Assistant(s)	
Aim	To recognize the basic terminology of informatics, to explain the data and communicationstandards of health and social security, to recognize the national health informationsystems, to express the security, privacy and usability aspects of health informationsystems.
Course Content	This course contains; 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,11. Group Studies and Presentations,12. Group Studies and Presentations,13. Group Studies and Presentations,14. Group Studies and Presentations.

Course Learning Outcomes	**Teaching Methods**	**Assessment Methods**
Hekimliği Bilgi Sistemi, İlaç Takip Sistemi, etc.	1, 10, 3	A
1. Be able to recognize the basic terminology, and coding and classification standards of medical informatics	1, 10, 2, 3	A
1.1. Recognize international coding and classification standards for diagnosis, drugs, and interventions	1, 10, 3	A
1.2. Recognize the data standards of MoH such as USVS, SKRS, DBB, etc.	1, 10, 3	A
1.3. Recognize the data standards of Social Security Institution such as TITUBB, SUT, etc..	1, 10, 2, 3	A
2. Be able to interpret the communly used national health information systems, the interaction between them and the security aspects.	1, 10, 2, 3	A
2.1. Recognize the health information systems such as Sağlık-NET, MEDULA, Aile	1, 10, 2, 4	A
2.2. Explain the context of those information systems and their objectives.	1, 10, 4	A
2.3. Explain the security and privacy principles and the situation of the national health information system with recpect to them	1, 3, 4, 6	A
3. Be able to interpret the software development methodologies and usability aspects of information systems.	1, 10, 3	A
3.1. Recognize the SW development methodologies including waterfall, iterative & incremental, rapid application development, agile, etc.	1, 10, 2	A
3.2. Recognize the usability and human-computer interaction aspects.	1, 10, 3	A

Teaching Methods	1: Lecture, 10: Brainstorming, 2: Question - Answer, 3: Discussion, 4: Exercise, Practice, 6: Role Model, Making an example
Assessment Methods	A: Written Exam

Lecture Schedule

Sequence	**Topics**	**Preliminary Preparation**
1	1. Introduction to Information Systems	
2	2. Health Informatics	
3	3. International Health Informatics Standards	
4	4. National Health Informatics Standards	
5	5. National Health Information Systems	
6	6. Security and Privacy in Health Information Systems	
7	7. Basic concepts in Software Development	
8	8. Basic Methodologies in Software Development	
9	9. Usability in Information Systems	
10	10. Group Studies and Presentations	
11	11. Group Studies and Presentations	
12	12. Group Studies and Presentations	
13	13. Group Studies and Presentations	
14	14. Group Studies and Presentations	

Evaluation Methods	**Weight(%)**
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