

**Graduate School of Health Sciences / Health Management M.S**  
**2023 - 2024 Academic Year**  
**CURRENT APPROACHES and ADVANCED READINGS in HEALTH INF.**  
**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
CURRENT APPROACHES and ADVANCED READINGS in HEALTH INF.	SAYY1167480	Fall Semester	3+0	3	8
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Second Cycle (Master's Degree)				
<b>Course Type</b>	Elective				
<b>Course Coordinator</b>	Assist.Prof. Aliye Aslı SONSUZ				
<b>Name of Lecturer(s)</b>	Assist.Prof. Aliye Aslı SONSUZ				
<b>Assistant(s)</b>	Ressearch. Assist. Sefer Aygun				
<b>Aim</b>	To recognize fundamentals of informatics, explain data and communication standards in health and social security, to be familiar withthe national health information systems, and to articulate issues of safety, privacy, and usability in health informatics.				
<b>Course Content</b>	This course contains; Introduction to information systems,Health informatics,Health informatics standards,Health informatics standards in Turkey,Health information systems in Turkey,Health information systems and privacy,Fundamental concepts in software programming,Software development process,Usability in information systems,Structures of Health Coding Systems, Coding Quality and DocumentationRelation,National and International Health Data Dictionary,Group exercises and presentation,Group exercises and presentation,Group exercises and presentation.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
1.Recognize fundamental concepts, and coding and classification systems of informatics and health informatics.			16, 9	A	
9.Interpret development methods for information systems, and usability in information systems.			16, 9	A	
2. Recognizes international coding systems for diagnosis, operation/service, drugs, active ingredients of drugs, etc.			16, 9	A	
3. Recognizes the information standards of the Ministry of Health, such as National Data Dictionary (USVS), Health Coding Reference Server (SKRS), Doctor Data Bank, etc.			16, 9	A	
4. Recognizes the information standards of Social Security Institution, such as National Drug and Medical Equipment DataBank for Turkey (TITUBB), Health Applications Bulletin, etc.			16, 9	A	
5. Interpret commonly used health information systems in Turkey, their interactions, and data safety			16, 9	A	
6. Recognizes applicatons such as Sağlık-NET, MEDULA, Family Practicioners' Information System, Drug Monitoring System,etc.			16, 9	A	
7. Explains what type of data these systems collect, from whom, and for what purpose.			16, 9	A	
8. Explains the general principles regarding safety and privacy of health data, and the state of information systems in Turkey according to these principles.			16, 9	A	
10. Generally recognizes information system development methodologies			16, 9	A	
11. Familiarity with information system development methodologies in general.			16, 9	A	
12. Counts the standards of health computing.			16, 9	A	
13. Provide the confidentiality, security and privacy of health records, and explain the responsibilities of employees and management.			16, 9	A	
<b>Teaching Methods</b>	16: Question - Answer Technique, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequenc e</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Introduction to information systems	Read the related topic			
2	Health informatics	Read the related topic			
3	Health informatics standards	Read the related topic			
4	Health informatics standards in Turkey	Read the related topic			
5	Health information systems in Turkey	Read the related topic			
6	Health information systems and privacy	Read the related topic			
7	Fundamental concepts in software programming	Read the related topic			
8	Software development process	Read the related topic			
9	Usability in information systems	Read the related topic			
10	Structures of Health Coding Systems, Coding Quality and DocumentationRelation	Read the related topic			
11	National and International Health Data Dictionary	Read the related topic			
12	Group exercises and presentation	Read the related topic			
13	Group exercises and presentation	Read the related topic			
14	Group exercises and presentation	Read the related topic			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		50			
General Exam		50			

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**Resources**

Lecture presentation notes (will be regularly shared on the course website).

Some Papers:

1. İlker KÖSE, Nihat AKPINAR, Murat GÜREL, Yakup ARSLAN, Hakan ÖZER, Nihat YURT, Yıldıray KABAK, Prof. Dr. Asuman DOĞAÇ, "Turkey's National Health Information System (NHIS)" e-Challenges, 22-24 October 2008, Stockholm, Sweden, p. 170-177
  2. Yıldıray KABAK, Prof. Dr. Asuman DOĞAÇ, İlker KÖSE, Nihat AKPINAR, Murat GÜREL, Yakup ARSLAN, Hakan ÖZER, Dr. Nihat YURT, Ahmet ÖZÇAM, "The Use of HL7 CDA in the National Health Information System (NHIS) of Turkey", 9th International HL7 Interoperability Conference IHIC 8-11 October 2008, Grete, Greece, p. 49-55.
  3. Namli T., Aluc G., Sinaci A., Kose I., Akpinar N., Gurel M., Arslan Y., Ozer H., Yurt N., Kirici S., Sabur E., Ozcam A., Dogac A. "Testing the Conformance and Interoperability of NHIS to Turkey's HL7 Profile" 9th International HL7 Interoperability Conference (IHIC), 8-11 October 2008, Greece, pp. 63-68.
- Edward H. Shortliffe, *Medical Informatics: Computer Applications in Health Care and Biomedicine (Health Informatics)*, Springer