

TOROS ÜNİVERSİTESİ

Faculty Of Health Sciences

Course Information

TECHNOLOGY MANAGEMENT IN HEALTHCARE INSTITUTIONS					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
SKY346	Spring	3	0	3	2

Prerequisites and co-requisites	none
Language of instruction	Turkish
Type	Elective
Level of Course	Bachelor's
Lecturer	Lect. Şadi ANAMURLUOĞLU
Mode of Delivery	Face to Face
Suggested Subject	none
Professional practise (internship)	None
Objectives of the Course	To make the students aware of use of scientific knowledge and technology, strategic importance, people and organizations in health technology management; importance of general science and technology management policies; theoretical knowledge on producing, acquiring and use of health technology with a significant share in health expenditures in the health sector and health organizations in a scientific and cost-benefit way; practice through presenting a comprehensive case study on hospital technology management; necessary approaches for applying to a particular case.
Contents of the Course	This course includes concepts, definitions, importance and development progress of science and technology management; health technologies groups; health equipments and drugs; health technology management and assessment in Turkey; technological needs/requirements in health care organizations; outsourcing for health technology necessities; development stages of health technologies and management stages; feasibility assessment and benefit evaluation.

Learning Outcomes of Course

#	Learning Outcomes
1	At the end of the course students; Science and Technology Management Health Technology Management Health Technology and Technology Development Guide, Management Levels, Country Level Health Technology Management United Nations Level Health Technology Management in Turkey Unit Level Technology in Health Organizations Outsourcing Needs from Organizations: Demand Evaluation in Technology Selection
2	Technical Service, Technical Service Units to be Installed, Maintenance and Repair Services in Health Facilities, Calibration Services, Technological Risk Management are learned in the feasibility study on technology selection, benefit research in technology selection, purchase of technological product, organization of technical services in health institutions
3	To have knowledge about theoretical and practical information related to the field of health management and to be able to implement this knowledge
4	To gain knowledge and skills on understanding, analyzing and directing administrative, financial, technical and medical process of health organizations
5	To have knowledge and skills on managing information systems on health management and to be able to effectively use it.
6	To understand basic elements of health system in national and international level, to comprehend health planning and health policy, to analyze health sector economic and financially.
7	To have knowledge and skills to make quantitative and qualitative analyses in health management and to be able to implement this knowledge.
8	Critical and innovative thinking in problems faced during health management process, having the ability to use scientific methods and techniques in decision making and problem solving.

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Science and Technology Management: Concepts, Definitions, Importance and Development Progress	Lecture, discussion, presentation
2	Science and Technology Management in Turkey: Development, Current Status, Measures	Lecture, discussion, presentation
3	Health Technology management: Development, Concepts, Definitions, and Equipments and Drugs	Lecture, discussion, presentation
4	Development Stages of Health Technologies and Management Stages	Lecture, discussion, presentation
5	National Health Technology management: Current Status, Country Practices, Conclusions	Lecture, discussion, presentation
6	Health Technology Management in Turkey: Current Status	Lecture, discussion, presentation
7	Health Technology Management in Turkey: Current Status	Lecture, discussion, presentation
8	Midterm Exam	exam
9	Departmental Technology Management in Health Care Organizations: Current Status, Measures, Pressures on Managers	Lecture, discussion, presentation
10	Technological Needs/Requirements in Health Care Organizations	Lecture, discussion, presentation
11	Outsourcing for Technology Needs: Demand Assessment in Technology Selection	Lecture, discussion, presentation
12	Feasibility Assessment and Benefit Evaluation in Technology Selection, Purchasing Health Technologies	Lecture, discussion, presentation
13	Organization of Health Technological Services: Technological Services, Technological Units	Lecture, discussion, presentation
14	Maintenance and Repairment Services in Health Care Organizations, Calibration Services, Technological Risk Management	Lecture, discussion, presentation
15	Preparation for Final Exam	Lecture, discussion, presentation
16	Final Exam	exam

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	ECD and World Bank (2008) OECD Sağlık Sistemi İncelemeleri: Türkiye. OECD ve Dünya Bankası		
2	Tatar M, Mollahaliloğlu S, Şahin B, Aydın S, Maresso A, Hernández- Quevedo C. Turkey: Health system review. Health Systems in Transition, 2011, 13(6):17186.		
3	Sargutan A. Erdal (2006) Sağlık Sektöründe ve Sağlık Kuruluşlarında Teknoloji Yönetimi, Hacettepe Üniversitesi Yayını, Ankara.		

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	At the end of the course students; Science and Technology Management Health Technology Management Health Technology and Technology Development Guide, Management Levels, Country Level Health Technology Management United Nations Level Health Technology Management in Turkey Unit Level Technology in Health Organizations Outsourcing Needs from Organizations: Demand Evaluation in Technology Selection	9,10	1,2
2	Technical Service, Technical Service Units to be Installed, Maintenance and Repair Services in Health Facilities, Calibration Services, Technological Risk Management are learned in the feasibility study on technology selection, benefit research in technology selection, purchase of technological product, organization of technical services in health institutions	9,10	1,2
3	To have knowledge about theoretical and practical information related to the field of health management and to be able to implement this knowledge	9,10	1,2
4	To gain knowledge and skills on understanding, analyzing and directing administrative, financial, technical and medical process of health organizations	9,10	1,2
5	To have knowledge and skills on managing information systems on health management and to be able to effectively use it.	9,10	1,2
6	To understand basic elements of health system in national and international level, to comprehend health planning and health policy, to analyze health sector economic and financially.	9,10	1,2
7	To have knowledge and skills to make quantitative and qualitative analyses in health management and to be able to implement this knowledge.	9,10	1,2
8	Critical and innovative thinking in problems faced during health management process, having the ability to use scientific methods and techniques in decision making and problem solving.	9,10	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	3	42
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	1	14
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	0	0	0
8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	1	1	1
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	1	1
16	Final Exam	1	1	1
				60