

## **An Overview to Curriculum**

### **Master of Science (MSc) in:**

# **E-learning in Medical Sciences**

#### **Program Description:**

The growing demand for student-centered and more flexible educational programs along with the Covid 19 pandemic, has led to the popularity of e-learning extensively. In turn, the success of this approach is very dependent to skillful e-learning professionals.

Postgraduate study in the field of e-learning/digital education has been offered for years in some universities worldwide, meanwhile programs that focus on medical and health related fields are not very abundant. Tehran university of Medical Sciences is one of the pioneer universities to offer this subject and the e-learning department is honored to be the Center of Excellence for E-learning in Medical Education in Iran.

Students pursuing this MSc degree will obtain the knowledge and skills needed to plan, design and facilitate e-learning opportunities in medical and health related fields as well as conducting related research projects.

#### **Duration**

2.5 to 3 years for on-campus and 2.5 to 5 years for online mode, including minimum of 3 semesters for courses and then conducting MSc thesis

Note: Applicants can enroll for on-campus or online mode according to their preferences.

#### **Courses and number of credits:**

- Core Courses: 22 credits
- Non-core Courses (Electives): 4 credits
- Thesis: 6 credits
- Total: 32 credits
- Compensatory\* : 9 credits

\* Students should study some or all of these courses according to their background degree(s).

## Objectives:

At the end of the program graduates will be competent in:

- Acting as teacher in courses/workshops related to e-learning in medical and health related fields
- Participating in the design of e-learning software such as Learning Management Systems (LMSs) and collaborative learning tools
- Providing consultation in instructional design for e-learning
- Implementing e-learning in various contexts in related fields
- Designing and development of electronic educational contents
- Evaluating e-learning programs and courses
- Consulting educational institutions, stakeholders, researchers and teachers with regard to e-learning issues
- Collaborating in the design and implementation of research projects with regard to e-learning in medical and health related fields

## Tables of the Courses

**Table 1. Compensatory Courses**

No.	Course Title	Credits			Prerequisite
		Theoretical	Practical	Total	
01	Medical Information Systems	0.5	0.5	1	-
02	Advanced Inferential Statistics	1	1	2	-
03	Teaching Methods and Skills	2	-	2	-
04	English for Professional Purposes	2	-	2	-
05	Applied Educational Psychology in e-Learning	2	-	2	-
<b>Total</b>		7.5	1.5	9	-

**Table 2. Core Courses**

No	Course Title	Credits			Prerequisite
		Theoretical	Practical	Total	
06	Applied Research Design in e-Learning for Medical Sciences	1	1	2	02
07	Introduction to e-Learning	2	-	2	
08	e-Learning Tools and Technologies	1.5	1.5	3	
09	Assessment and Evaluation in e-Learning	2	1	3	
10	e-Content Design and Development 1	1	1	2	08
11	e-Content Design and Development 2	1	1	2	08-10
12	Instructional Design in e-Learning	1	1	2	10-11
13	Learner Support Systems in e-Learning	-	1	1	07
14	Information Security in e-Learning Systems	1	-	1	-
15	Ethics in Information Technology	1	-	1	07
16	Seminar on e-Learning Issues in Medical Sciences	-	1	1	06-07
17	Apprenticeship	-	2	2	08-10-11-12
<b>Total</b>		11.5	10.5	22	-

**Table 3. Non-Core Courses\***

No	Course Title	Credits			Prerequisite
		Theoretical	Practical	Total	
18	Strategic and Operational Planning	1	1	2	-
19	Educational Management and Leadership in e-Learning	2	-	2	-
20	Information Technology in Healthcare System	2	-	2	-
21	Business Management in e-Learning Systems	1	1	2	01
<b>Total</b>		6	2	8	-

\* Students have to study 4 credits among the above courses.