

**Islamic Republic of Iran**  
**Ministry of Health and Medical Education**  
**Deputy for Education**

**Health in Emergencies and Disasters**

**Degree: Doctor of Philosophy (PhD)**

**Total Course Credits**

- Compensatory:
- Core: 24
- Non-core: 6
- Dissertation: 20

**Program Description**

Iran (the Islamic Republic) is a Middle East country covering an area of 1,648 million sq km with a population of about 75 million. It is exposed to a variety of natural and man-made disasters that have caused considerable damages to the population and infrastructures. According to the Global Assessment Report on Disaster Reduction, the Iran's risk class for natural hazards is 8 out of 10. Over last four decades, these hazards have caused more than 109,000 deaths and 150,000 injuries in Iran <sup>2</sup>.

Natural disasters adversely affect the health of population directly through injury and death; increasing physical and mental illness; displacing and disrupting social networks; as well as destructing physical surroundings and personal property. Damage to the structure and function of health facilities can have further impacts by impairing the ability of communities to respond to these calamitous events.

Health in emergencies and disasters is a multidisciplinary major in health sciences. It describes disaster management cycle (mitigation, preparedness, response and recovery) and plans to save and promote physical, mental, social health is developed by School of Public Health at Tehran University of Medical Sciences in collaboration with Disaster & Emergency Management Center at the Ministry of Health & Medical Education. The program has accepted students since 2011 academic year.

The major goals of training PhD level in this subject include the following:

- Increasing capacity in education, research, policy making and disasters and emergency management
- Meeting scientific needs of health sector, risk management and reduction of natural, manmade and biologic threats

- Helping to design interventions to reduce vulnerability and risk of consequences in natural and manmade disasters and emergency
- Increasing role of Islamic Republic of Iran to produce knowledge and information management in preparedness and risk reduction in disasters and emergencies in the region and world
- Developing scientific cooperation in education and research centers in Iran, other countries and international organizations by respect to regulations of Islamic Republic of Iran

### **Admission Requirements**

- Having a doctoral degree or a master's degree in health related disciplines
- Meeting admission criteria based on regulations of universities
- Proved records of research activities

### **Expected Competencies at the End of the Program**

#### **General Competencies\***

\*Note: The related document(s) can be found at <http://hcmep.behdasht.gov.ir/>.

#### **Specific Competencies and Skills**

- At the end of the program learners will be competent in the following skills:
  - Teaching, and research in disaster and emergency health

#### **Educational Strategies, Methods and Techniques\***

\*Note: The related document(s) can be found at <http://hcmep.behdasht.gov.ir/>.

#### **Student Assessment (Methods and Types)**

- Formative (Quizzes and Midterm Exam)
- Summative (Final Exam)
- Oral and written exams, observation, clinical competence assessments
- (OSCE, OSLE, OSFE, DOPS, 360 degree evaluation competency)
- Portfolio assessment: logbook, test results, reports, articles, certificates, promotion, etc.

#### **Ethical Considerations\***

\*Note: The related document(s) can be found at <http://hcmep.behdasht.gov.ir/>.



## Tables of the Courses

**Table1. Compensatory Courses**



Code of the Course	Title of the Course	Credits			Teaching Hours		
		Theoretical	Practical	Total	Theoretical	Practical	Total
01*	Medical Information System	0.5	0.5	1	9	17	26
02	Research Methods & Advanced Statistic	2	1	3	34	34	68
03	Principle in Disasters in Health System	2	-	2	34	-	34
04	Essential Management & Planning in Health	2	-	2	34	-	34
05	Epidemiology Essential	2	-	2	34	-	34
06	Specialty English Language	2	1	3	34	34	68
07	Medical Emergencies	2	-	2	34	-	34
08	Essential Health Services & Referral System	2	-	2	34	-	34
09*	Passive Defense	1.5	0.5	2	26	17	52
<b>Total</b>		<b>16</b>	<b>3</b>	<b>19</b>	<b>273</b>	<b>102</b>	<b>375</b>

**Table 2.Core Courses**

Code of the Course	Title of the Course	Number of Credits			Teaching Hours		
		Theoretical	Practical	Total	Theoretical	Practical	Total
10	Disaster Management and Risk Reduction	2	1	3	34	51	85
11	Disaster Epidemiology and Metrics	1.5	0.5	2	26	26	52
12	Man-made Disasters	1.5	0.5	2	26	26	52
13	Natural Disasters	1.5	0.5	2	26	26	52
14	Disaster Risk Assessment	1.5	0.5	2	26	26	52
15	Pre-hospital and Hospital Disaster Planning	1.5	0.5	2	26	26	52
16	Public Health in Disasters	1.5	0.5	2	26	26	52
17	Environmental Health in Emergencies	1.5	0.5	2	26	26	52
18	Communicable Disease Emergency Management	1.5	0.5	2	26	26	52
19	Community-based Disaster Management	0.5	0.5	1	9	26	35
20	Incident Command System	0.5	0.5	1	9	26	35
21	Seminar	-	1	1	-	34	34
22	Field Training	-	2	2	-	136	136
23	Research-based Thesis	-	20	-	-	-	-
<b>Total</b>		<b>15</b>	<b>29</b>	<b>44</b>	<b>260</b>	<b>481</b>	<b>741</b>

**Table3. Non-Core Courses (Electives)**

Code of the Course	Title of the Course	Number of Credits			Teaching Hours		
		Theoretical	Practical	Total	Theoretical	Practical	Total
24	Health Economy in Disasters	2	-	2	34	-	34
25	Health Geography and GIS	0.5	0.5	1	9	26	35
26	Pre-hospital and Hospital Emergency Management	1.5	0.5	2	26	26	52
27	Nutrition in Emergencies	0.5	0.5	1	9	26	35
28	Reproductive Health in Emergencies	0.5	0.5	1	9	26	35
29	Psycho-social Support in Disasters	1.5	0.5	2	26	26	52
30	Disaster Risk Communication	0.5	0.5	1	9	26	35
31	International Humanitarian Assistance	0.5	0.5	1	9	26	35
32	Information Management and Technology in Disasters	0.5	0.5	1	9	26	35
33	Disaster Nursing	1.5	0.5	2	26	26	52
34	Qualitative Research	1.5	0.5	2	26	17	43
35	Modeling of Prediction in Epidemiology	1	0.5	2	17	34	51
36	Resource and Logistic System Management in Disasters	0.5	1	1	9	26	35
37	Strategic Planning and Management	1.5	0.5	2	26	17	52
<b>Total</b>		<b>14</b>	<b>7</b>	<b>21</b>	<b>218</b>	<b>311</b>	<b>529</b>

<p><b>Jamshid Hajati PhD</b> Secretariat of the Council for Education of Health and Basic Medical Sciences (Undergraduate and Postgraduate)</p> 	<p><b>Seyed Mansour Razavi MD</b> Secretary of the Supreme Council for Medical Sciences Planning</p> 
<p><b>Bagher Larijani MD</b> Deputy for Education Ministry of Health and Medical Education</p> 