



TEHRAN UNIVERSITY
OF
MEDICAL SCIENCES

Vice chancellor for education
Education Development Center
Curriculum Planning Division

Course Plan Framework

Course Information

Educational department: **Department of Health in Disaster and Emergencies**

Course title: ***Pre-Hospital and Hospital Disaster Planning***

Course code: **15**

Type and number of credits: **2 theoretical units, 1 practical unit**

The name of the faculty member in charge of the lesson: **Dr. Abbas Ostadtaghizadeh**

The name of the faculty members: **Saeid Yaghoubi Koupaei** (Ph. D candidate/ Health in Disaster and Emergencies)

Prerequisite / synchronous: -

Major and type of degree: **Ph. D / Health in Disaster and Emergencies**

Information of the instructor in charge of the lesson

Academic rank specialized field: **Associated Professor**

The place of work of the faculty: **School of Public Health**

Phone number: **+98(0)9123909011**

Email address: **ostadtaghizadeh@gmail.com**

General description of the lesson:

The course *Pre-Hospital and Hospital Disaster Planning* is designed to enhance the knowledge and managerial competencies of doctoral students specializing in **Health in Disaster and Emergencies**. This course explores the concepts, frameworks, and techniques for disaster risk management within hospital and pre-hospital settings. Given the critical importance of rapid and coordinated responses in healthcare and emergency environments during disasters, an in-depth understanding of key areas such as prioritization, triage, resource management, the Incident Command System (ICS), vulnerability assessment, and optimization of response and recovery processes is essential.

Through this course, students will acquire the skills necessary to design and implement preparedness, response, and recovery programs in hospital and pre-hospital environments. Emphasizing unique challenges in healthcare settings—such as the complexity of triage under crisis conditions, securing critical infrastructure, and understanding crisis psychology—students will gain practical insights and foundational knowledge for disaster management. This expertise will empower them to serve effectively in managerial or operational roles within the healthcare system, enabling them to respond to crises and minimize the human and financial impacts of disasters.

Goals / Competencies:

1. Understanding and assessing disaster risks and threats in hospital and pre-hospital settings
2. Ability to develop and implement preparedness and response plans for disasters within hospital and pre-hospital systems
3. Understanding and evaluating decision-making mechanisms and resource management during crises
4. Familiarity with psychosocial management and emergency response teams during disaster situations
5. Empowerment in analyzing and evaluating post-disaster responses and improving processes

Specific objectives / Sub competencies

It is expected that at the end of this course, the students:

1. Students will be able to analyze various types of disasters and their impacts on hospital and pre-hospital structures and operations.
2. They will understand and apply risk assessment principles and related tools in healthcare facilities.
3. They will comprehend and implement operational planning processes for disaster preparedness and response in hospitals.
4. Students will master the foundations of resource, information, and decision-making management during critical situations.
5. They will identify and manage psychosocial aspects related to disaster response.
6. Students will acquire the ability to assess hospital and pre-hospital response and recovery following disaster events.

Educational Approach:

Virtual

in person

blended

Teaching methods regarding the selected educational approach:

Virtual Approach

- Flipped Classroom
- Digital Game Based Learning
- Interactive E-content Based Learning
- Problem Based Learning (PBL)
- Guided Discovery Learning
- Text- Based Scenario Learning
- Discussion -Based Learning in the forum
- Other approaches (please name)

In person Approach

- Interactive Lectures (questions and answers, quizzes, group discussions, etc.)
- Small Group Discussion
- Role Play
- Guided Discovery Learning
- Team- Based Learning (TBL)
- Problem -Based Learning (PBL)
- Scenario -Based Learning
- Peer teaching
- Game -Based Learning
- Other approaches (please name)

Blended Approach

A combination of subsets of virtual & in-person approaches used in teaching

- interactive lecture, question and answer, class discussion

Lesson Calendar

Session	Topic	Teaching Methods	Learning activities/ assignments	Instructor (s)
1	Introduction to Disaster Risk Management in Hospital and Pre-Hospital Settings	Interactive E-content Based Learning	Participation in the pre-examination and Active participation in class	Saeid Yaghoubi Koupaei
2	Hospital Risk Assessment	Interactive E-content Based Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei
3-4	Hospital Preparedness and Response Plans	Interactive E-content Based Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei
5	Hospital Incident Command System (HICS)	Interactive E-content Based Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei
6	Surge Capacity and Resource Management	Interactive E-content Based Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei
7	Communication and Information Management	Interactive E-content Based Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei
8	Preparedness Exercises for Hospitals	Interactive E-content Based Learning Text- Based Scenario Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei
9	Psychosocial and Social Interventions in Hospital Disasters	Interactive E-content Based Learning Peer teaching	Active participation in class and discussion	Saeid Yaghoubi Koupaei
10	Triage and Prioritization of Casualties in Disaster	Interactive E-content Based Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei
11	Hospital Safety and Security in Disasters	Interactive E-content Based Learning Problem -Based Learning (PBL)	Active participation in class and discussion	Saeid Yaghoubi Koupaei
12	Pre-Hospital Evaluation and Transport of Casualties in Disasters	Interactive E-content Based Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei
13	Hospital Post-Disaster Recovery and Rehabilitation	Interactive E-content Based Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei
14	Post-Disaster Response Evaluation: Reporting and Feedback Analysis	Interactive E-content Based Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei
15	Case study	Text- Based Scenario Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei
16	Case study	Text- Based Scenario Learning	Active participation in class and discussion	Saeid Yaghoubi Koupaei

Student responsibilities:

Regular attendance in the classroom and webinars, completing assignments on time, presenting an interactive lecture on the assigned topic, studying the introduced resources, and actively participating in the class programs.

Student assessment methods

Active participation in class and group discussions: **30% of total score**

Giving a lecture in class: **10% of total score**

End of course exam: **60% of total score**

Sources

Books:

1. Ciottone's Disaster Medicine 3rd Edition
Editor: Gregory R. Ciottone

2. Electronic contents provide