

## In the Name of God

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

## Food Safety and Hygiene Degree: Master of Science (M.Sc.)

### Total Course Credits

- Core: 20
- Non-core (Electives): 4-6
- Thesis (MSc): 6

### Program Description

The field of Food Hygiene and Safety is intended to provide safe and healthy food, from production to consumption, for community members, and prevent complications caused by food additives and industrial materials.

The overall goal of Food Safety and Hygiene is to enable the graduates to perform necessary tests, interpret their results, identify food hazards, and implement appropriate methods to prevent food borne illnesses; the graduates are armed with the knowledge and skills of adopting new effective methods to enhance the quality of food.

### Admission Requirements

- Meeting the general requirements for admission to master program, introduced by Iran's Ministry of Health and Medical Education
- Taking part in the Entrance Exam for a master degree, administered by the Ministry of Health and Medical Education
- Holding a bachelor degree in one of the fields of food science (nutritional science, food technology, with a focus on food quality control and hygiene), environmental health, public health, microbiology, and laboratory sciences; or having a general doctorate in medicine (MD), or a master degree in laboratory sciences

The subjects that are included in the Entrance Exam are indicated in the box below.

### Examination Subjects

Type of Subject	Weight
Food microbiology	2
Essentials of food preservation	2
Food biochemistry	2
Essentials of food safety and hygiene	2
General English	10

### Expected Competencies at the End of the Program

#### General Competencies\*

### **Specific Competencies and Skills**

At the end of the program learners will be competent in the following skills:

- Instructing students of food science at bachelor level
- Dealing with issues and questions related to food safety hygiene
- Imparting scientific knowledge about the significance of food and hazards of unhealthy food to the society
- Performing applied research on food safety and hygiene
- Developing research projects to elevate nutrition standards
- Cooperating with food quality control centers
- Cooperating with national and international bodies to administer programs on food safety and hygiene

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

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

- Formative (Quizzes and Midterm Exam)
- Summative (Final Exam)

### **Ethical Considerations\***

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

## Tables of the Courses

**Table 1. Core Courses**

Code of the Course	Title of the Course	Credits			Teaching Hours		
		Theoretical	Practical	Total	Theoretical	Practical	Total
1	Microbiological Safety and Quality of Food	2	1	3	34	34	68
2	Chemical Safety of Food	2	1	3	34	34	68
3	Health and Safety of Milk and Milk Products	1	1	2	17	34	51
4	Safety and Quality of Meat and Milk Products	2	-	2	34	-	34
5	Cereal, Fruits and Vegetables Safety	2	-	2	34	-	34
6	Environmental Contamination of Food	1	1	2	17	34	51
7	Food Safety Management Systems	1	1	2	17	34	51
8	Food Sampling Methods	2	-	2	34	-	34
9	Seminar	-	1	1	-	34	34
10	Project	-	1	1	-	34	34
11	Thesis	-	-	6	-	-	-
12	Total	13	7	26	221	238	459

**Table 2. Non-Core Courses**

Code of the Course	Title of the Course	Credits			Teaching Hours		
		Theoretical	Practical	Total	Theoretical	Practical	Total
1	Epidemiology and Risk Assessment Methods	2	-	2	34	-	34
2	Health and Food Safety in an Emergency	2	-	2	34	-	34
3	Food Standards and Regulations	2	-	2	34	-	34
4	Food Hazards Informing	2	-	2	34	-	34
5	Environmental Health in Good	2	-	2	34	-	34
6	Safety and Quality of Drinking Water	2	-	2	34	-	34
7	Total	12	-	12	204	-	204

Students must successfully complete 4 to 6 credits of the non-core courses above, depending on the subject of their thesis that should be endorsed by the supervisor and approved by the Postgraduate Education Council

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