



**Ağrı İbrahim Çeçen University**  
**Institute of Graduate Studies**  
**Department of Occupational Health and Safety**  
**2020-2021 Spring Term**

COURSE CODE	COURSE TITLE	C/S	T	A	TH	ACTS
İSG510	Biological and Chemical Risk Factors	Z	3	0	3	6

Assoc. Prof. Mucip GENİŞEL  
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### Course Objective and Description

- The main purpose of this course; It is to provide information about the biological and chemical risk factors in the working environment and the measures to be taken against them, and the legislation on this subject.

### Course Objectives and Outcomes

- To be able to define biological risk factors and necessary precautions
- Ability to identify chemical risk factors and necessary precautions
- Identifying biological and chemical hazards in workplaces
- Having knowledge about relevant legislation

### Course Schedule

Weeks	Subject	References – Readings	Tasks
1.Week	Introduction to Definition, Types and Effects of Biological Risk Factors	1. Biological Risk Factors Academician Bookstore Şükran Çakır Arıca 2. Regulation on Prevention of Risks of Exposure to Biological Factors	
2. Week	Classification of Biological Risk Factors, Required Hygiene Conditions, Employer Training Responsibilities	1. Biological Risk Factors Academician Bookstore Şükran Çakır Arıca 2. Regulation on Prevention of Risks of Exposure to Biological Factors	
3. Week	Evaluation of Biological Risks in Study Areas, Biological Agents that Create Risk in Study Areas, Determination of the Risks of Biological Agents	1. Biological Risk Factors Academician Bookstore Şükran Çakır Arıca 2. Regulation on Prevention of Risks of Exposure to Biological Factors	

<b>4. Week</b>	Obligations of Employers for the Prevention and/or Reduction of Biological Risks	<ol style="list-style-type: none"> <li>1. Biological Risk Factors Academician Bookstore Şükran Çakır Arıca</li> <li>2. Regulation on Prevention of Risks of Exposure to Biological Factors</li> </ol>	
<b>5. Week</b>	Precautions to be Taken in Human Health and Veterinary Services	<ol style="list-style-type: none"> <li>1. Regulation on Prevention of Risks of Exposure to Biological Factors</li> </ol>	
<b>6. Week</b>	Special Precautions for Industrial Processes, Laboratories and Animal Shelters,	<ol style="list-style-type: none"> <li>1. Regulation on Prevention of Risks of Exposure to Biological Factors</li> </ol>	
<b>7. Week</b>	Occupational Diseases Caused by Biological Agents in Study Areas (Bacterial)	<ol style="list-style-type: none"> <li>1. Biological Risk Factors Academician Bookstore Şükran Çakır Arıca</li> <li>2. Regulation on Prevention of Risks of Exposure to Biological Factors</li> <li>3. Regulation on Determination of Working Power and Loss of Profitability in Profession</li> </ol>	Analyzing at least 3 articles on Occupational Diseases Caused by Biological Agents
<b>8. Week</b>	Types of Diseases Caused by Biological Agents in Study Areas (Bacteria-Like Organisms, Fungi, Parasites, Viruses)	<ol style="list-style-type: none"> <li>1. Biological Risk Factors Academician Bookstore Şükran Çakır Arıca</li> <li>2. Regulation on Prevention of Risks of Exposure to Biological Factors</li> <li>3. Regulation on Determination of Working Power and Loss of Profitability in Profession</li> </ol>	
<b>9. Week</b>	Chemical Risk Factors Nomenclature and Classification of Chemicals	<ol style="list-style-type: none"> <li>1. Regulation on Health and Safety Precautions in Working with Chemical Substances</li> <li>2. Occupational Health and Safety Lecture Notes. Chemical Risk Factors . prof. Dr. Mustafa ERAT</li> </ol>	Analyzing at least 3 articles on Occupational Diseases Caused by Chemicals
<b>10. Week</b>	Types of Chemicals Exposure to Work Areas (Solid and Powders)		
<b>11. Week</b>	Chemical Risks; Health Risks		
<b>12. Week</b>	Safety Criteria of Chemicals, Entry Ways of Chemicals into the Body and Interactions		

		3. Regulation on studies with carcinogenic and mutagenic substances	
<b>13. Week</b>	Principles of Safe Working with Chemicals		
<b>14. Week</b>	Responsibility for Chemical Risk		

### References

1. Regulation on Prevention of Risks of Exposure to Biological Factors
2. Biological Risk Factors Academician Bookstore Şükran Çakır Arıca
3. Regulation on Determination of Working Power and Loss of Profitability in Profession
4. Regulation on Health and Safety Precautions in Working with Chemicals
5. Occupational Health and Safety Lecture Notes. Chemical Risk Factors . prof. Dr. Mustafa ERAT

### Expectations from Participants

All participants are expected to attend all classes by making the necessary preparations (detailed in the readings and assignments section) and to be active during the lesson..

All assignments will be sent via the system (if the homework has not been opened from the system, to the e-mail address given above).

### Evaluation:

Midterm Exam	20 % of The Midterm Exam Score
Final Exam	80 % of The Final Exam Score