

School of pharmacy

Department

Course title: environmental toxicology

Credit (Theory or Practical):1 Theory

Prerequisite: -----

Course Lecturers: Dr. Shariatpanahi- Dr. Aghsami- Dr.Abdollahi, Dr Aghamiri,
Dr Safaei Nezhad

Responsible Lecturer: Dr. Abdollahi

Student responsibilities:

Presenting a scientific project according to the opinion of the relevant professor (70%), written or oral exam (30%)

Course Description:

The course provides students with a foundational knowledge of environmental toxicities including various pollutants.

- Course objectives:

- Environmental toxins (Definitions)
- Environmental pollutants
- Mechanism of action of environmental toxins
- Adverse effects of environmental toxins
- Assessment of the presence of toxins in the living environment

Student Learning Objectives:

Students should be able:

- To interpret generalities about Toxins
- To explain the various environmental toxins
- To describe different environmental pollutants
- To explain the different mechanisms of environmental toxins

Students are expected to:

Student will be able to successfully know the mechanism of action and adverse effects of environmental toxicities.

Course Plan: Saturday 10-12

Lecturer	Subject	Time	Date	No.
Dr. Aghamiri	General aspects and principals in environmental toxicology	10-12	1404/08/03	1
Dr. Aghamiri	Laws and regulations related to environmental protection organizations	10-12	1404/08/10	2
Dr. Safaei Nezha	Urban air pollution and pollutants (SO ₂ , CO ₂ , SOX, OZONE, NOX)	10-12	1404/08/17	3
Dr. Shariatpanahi	Greenhouse phenomenon	10-12	1404/08/24	4
Dr. Aghsami	Pesticides	10-12	1404/09/01	5
Dr. Aghsami	Heavy metals	10-12	1404/09/08	6
Dr. Shariatpanahi	Industrial wastewater	10-12	1404/09/15	7
Dr. Aghamiri	Radiation (UV,IR,Radon, Electromagnetic)	10-12	1404/09/22	8

Dr.Abdollahi	Noise pollution	10-12	1404/09/29	9
Dr.Abdollahi	Water pollution	10-12	1404/10/06	10
Dr. Safaei Nezha	Residues of warfare poisons in the environment	10-12	1404/10/20	11
Dr.shariatpanahi	Indoor poisonings (Cigaretts, sensitizers)	10-12	Extra	12

References:

- 1- Industrial toxicology authored by Dr. Gholamhossein Sanai, volumes 1 and 2
- 2- Patty's Industrial Hygiene and Toxicology. The Latest Ed.
- 3- Hayes Principles and Methods of Toxicology, Raven Press, New York.

- All classes will be held in Besarati (Eastern 7) street, North Shahin Boulevard

The absence hours of a student should not exceed 4/17 in theoretical, 2/17 in practical and laboratorial. Otherwise, the score for that course or section will be considered as zero.

Note 1: allowed absences are accepted provided that students bring in documents for that and the related professor approves it. Acting against absences (either excused or not) will be the decision of the professor and agreement of the college.