

HFS203 Environmental Hazards and Toxicology

Level: 2

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JULY

Synopsis:

Human-environmental interaction forms an important component in a human factors programme. It is imperative for human factors and safety practitioners to appreciate how human performance is affected by physical environmental factors such as lighting, thermal, noise, and vibration. This course will cover these topics as well as how human performs in high and low altitude environments. Students are taught to recognize problems in the physical environment in relation to human responses and how to alleviate these problems.

Topics:

- Noise
- Climate
- Motion
- Illumination
- Toxicology and Radiation
- Human Performance in Extreme Environments

Learning Outcome:

- Discuss the basic principles of environmental hazards and measures to alleviate them.
- Describe the various aspects of environmental stressors in routine as well as extreme work environments.
- Illustrate how human factors principles, activities and programmes can be applied to ensure safety and health at work through appropriate measures.
- Apply human factors techniques and methods to gather data on environmental hazards and propose solutions to deal with hazards at work.
- Examine environmental stressors at work and suggest improvements.
- Analyse key environmental concerns and their implications in respect of real world applications.

Assessment Strategies:

Continuous Assessment Component	Weightage (%)
CLASS TEST	10
LAB REPORT	20
Sub-Total	30

Examinable Component	Weightage (%)
Written Exam	70
Sub-Total	70

Weightage Total **100**