

## MODULE INFORMATION SHEET

<b>Name of Module Unit</b>	<b>Work environment protection</b>
Name in polish language	Ochrona środowiska pracy
Module type	compulsory / <del>elective</del>
Form of studying	full-time day courses
Level of study	undergraduate course (B.Sc. level)
Type of study ( for extra-mural courses)	-
Programme	Environmental Engineering
Speciality	Environmental Engineering
Responsible department	Department of Air-Conditioning and Heating
Responsible person	Dr hab. inż. Anna Bogdan, prof. uczelni

Semester	Lectures(E)	Tutorials	Laboratory	Computer Exercises	Projects	ECTS
1	15	-	-	-	-	2

### Objectives (summary)

Understanding of processes, phenomena and interactions taking place in work environment. Understanding of risk factors for human health and life. Knowledge on basic law regulation in the field (structure of requirements and control mechanisms), increasing the awareness of costs related to work environment protection.

### Prerequisites

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### Rules of integrated grade setting

Grade from lectures (no other type of teaching activities is foreseen).

### Recommended readings

Before each lecture the students will have a chance to download the presentation. Other references are presented during lectures

## Contents of lectures (syllabus)

	Topics	Time (hrs.)	Scope (S / Ex)
1	Human in indoor environment – influence of indoor factors on comfort and productivity	2	Ex
2	Impact of thermal environment in human sensation – general information. Fundamentals of thermophysiology.	1	Ex
3	Assessment of exposure to hot and cold environment	1	Ex
4	Thermal sensation in moderate environment	1	Ex
5	Indoor air quality assessment	1	Ex
6	Perceived air quality	1	Ex
7	Fundamentals of building ventilation and air-conditioning	1	Ex
8	Fundamentals of air distribution in rooms	1	Ex
9	Industrial ventilation – systems and solutions	2	Ex
10	Monitoring and evaluation of indoor environment quality	1	Ex
11	Energy efficiency in ventilation and air-conditioning systems	1	Ex
12	Smart readiness indicator and future challenges in workplace protection	1	Ex
13	Test	1	Ex
<b>Total</b>		<b>15</b>	<b>hours</b>

S – topics listed in the legal study programme standards from 12.07.2007

Ex – extended topics

### Lecturers

Dr hab. inż. Anna Bogdan, prof. uczelni

### Assessment method

Multiple choice test