

Engineering design of air quality

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profile	general academics
degree	first degree
programme	ERASMUS
semester	1
part time / full time	full time
ECTS	2
coordinator	prof. dr hab. inż. Wioletta Rogula-Kozłowska

form of the activity: exercise

hours	16
prerequisites	Basic knowledge of chemistry and physics
objectives	To familiarise a student with the methodologies for assessing the spread of pollutants in ambient air and the factors that determine it
methods	Presentation, discussion, project implementation
own work	Work on the project
basic literature	Overview of methods to assess population exposure to ambient air pollution - World Health Organization 2023
supplementary literature	

contents	hours
Theory for modeling the spread of pollutants. Factors that shape gas and dust concentrations in the air	4
Research tools for modeling the spread of pollutants	2
Case study: Selection of tools for different scenarios of the spread of pollutants	2
Case study: Modeling and calculations for different scenarios of the spread of pollutants	6
Discussion and evaluation of performed scenarios	2