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| Level: Specialist studies | | | | |
| Course title: INDUSTRIAL WASTE GASES EMISSION CONTROL (advanced course) | | | | |
| Status: elective | | | | |
| ECTS: 5 | | | | |
| Requirements: none | | | | |
| Learning objectives Expand knowledge and prepare students for quality control of air and process waste gases in different branches of industry. | | | | |
| Learning outcomes Students acquire specialized knowledge of the air quality criteria and the problem of industrial pollution. | | | | |
| Syllabus <i>Theoretical instruction</i> Study of the following topics: Identifying problems. Selection of sampling and testing methods. Measuring the flow of waste gases. Determination of particulate matter content and concentrations of gaseous pollutants. Systems control for odour in industry. Fans. Control of emissions of polluting particulate matter and gaseous pollutants. The main criteria for the selection of appropriate technological solutions. Equipment selection and quality required. Installation and performance testing of equipment for air quality control. Factors in equipment evaluation. Purification of industrial waste gas and waste water problems: thermal power, metallurgy, chemical and pharmaceutical industries. <i>Practical instruction</i> Practical instruction follows the theoretical one. | | | | |
| Weekly teaching load | | | | Other: |
| Lectures: 2 | Exercises: 2 | Other forms of teaching: | Student research: | |