

Name of the course	Environmental management tools
Number of instruction hours	20
Outline of course/module content	<p>Environmental management systems (EMS); main principles, compliance with legislation, rules and other requirements in accordance to sustainable development. Environmental impact assessment procedure; screening and scoping. Description of environment "zero" status. Identification / prediction / evaluation / assessment of significant environmental impacts. Methods for environmental impact prediction. Strategic Environmental Assessment (SEA). Methodology of environmental impact statement preparation. EMS and relevant standards; quality management system ISO 9001, environmental management system ISO 14001, life cycle assessment ISO 14040 (LCA), Occupational health and safety system ISO 18001 (OHSAS), cleaner production (CP), eco-management and audit scheme (EMAS). Possibility for implementation of integrated systems. Definition, structure and methodology of ISO 14001, and comparison with ISO 9001. Basic principles of ISO 14001; pollution prevention and continual improvement. Procedure for accidents; specifications for chemical industry. Definition of goal and scope of LCA. Inventory analysis. LCA methodology results interpretation. CP; methodology, principles and eco-efficiency. Responsible care; requirements for chemical industry. Basic principles of EMAS. Structure and content of EMAS; Environmental Statement. Relationship between ISO 14001 and EMAS. Directive concerning Integrated Pollution Prevention and Control (IPPC). Dynamic concept for best available techniques (BAT). BAT referent document as a ground for obtaining of environmental permit.</p>
Description of instruction methods	Lectures, seminars, consultations
Description of course/module requirements	Written exam, oral exam