

ORGANIZATION OF CLEANER PRODUCTION

Course Workload		Assessment form (examination/ graded test/ ungraded test)
ECTS	Hours	
3	108	Oral test

The aim of the course is to form students' knowledge and skills in the field of application of perspective technologies of alternative energy. During the course, undergraduates will get acquainted with nonconventional energy sources, modern methods of their use, problems and prospects of the development of nonconventional energy. Students will also learn methods of calculation of alternative energy installations and evaluation of their efficiency.

Course structure:

1. INTERNATIONAL EXPERIENCE IN THE FIELD OF OCP AND THE PRACTICE OF ITS APPLICATION IN THE RUSSIAN FEDERATION
 - 1.1. International experience in cleaner production.
 - 1.2. Principles and general procedure for cleaner production.
 - 1.3. Russian BREFs for BAT as sources of information for cleaner production projects.
 - 1.4. Environmental control programmes and environmental declarations for the calculation of environmental impact fees.
2. ORGANISATION OF CLEANER PRODUCTION IN A COMPANY
 - 2.1. Sources of information on the environmental impact of enterprises.
 - 2.2. Marker substances and processes in BREFs for BAT.
 - 2.3. Environmental, economic and social impact assessment of cleaner production projects.
3. ENVIRONMENTAL AND ECONOMIC ANALYSIS OF INVESTMENT PROJECTS WHEN IMPLEMENTING CLEANER PRODUCTION PROJECTS
 - 3.1. Feasibility study for cleaner production projects.
 - 3.2. Indicators of economic efficiency of cleaner production investment projects. Cash flow.
 - 3.3. Planning and organization of cleaner production project implementation at the enterprise.