

Code.....

Course item: .....

**1. INFORMATION ABOUT THE COURSE****A. Basic information**

Name of course	<b><i>Sustainable Development – Contemporary Concepts and Challenges</i></b>
Study level	<i>First degree</i>
Unit running the study programme	<i>Faculty of Agriculture and Biotechnology, Faculty of Management</i>
Study programme	<i>all</i>
Speciality	<i>all</i>
Name of teacher (s) and his academic degree	<i>Piotr Prus, PhD</i>
Introductory courses	<i>not required</i>
Prerequisites	<i>no prerequisites</i>

**B. Semester/week schedule of classes**

Semester	Lectures	Classes	Laboratories	Project	Seminars	Field exercises	ECTS
fall, spring	15	15					6

**2. EFFECTS OF EDUCATION** (acc. to National Qualifications Framework)

Knowledge	<i>on successful completion of the course student is supposed to know the contemporary concepts of sustainable development, as well as understand relationship between economic development, society's expectations and requirements of the natural environment</i>
Skills	<i>on successful completion of the course student is supposed to be able to interpret correlation between economic growth and civilization hazards, observe and predict the impact of human activities on the natural environment, as well as critically analyze the changes in the environment of the proximal and distal</i>
Competences	<i>on successful completion of the course student is supposed to cooperate with governmental and non-governmental organizations to solve social, economic and environmental problems, as well as take actions aimed at sustainable development at both levels: local and global</i>

**3. TEACHING METHODS**

*multimedia lectures, discussions, debates, educational games*

**4. METHODS OF EXAMINATION**

*written exam or project*

**5. SCOPE**

Lectures	<i>A historical perspective of the sustainable development concept. "Green energy" – the road from fossil fuels to sustainable energy resources. Global warming: facts and myths. Man and materials flows. Sustainable agriculture, forestry and fishery. Sustainable industrial production: waste minimization, cleaner technology and industrial ecology. Transporting people and goods; sustainable mobility. Sustainable cities and habitation; community development. Ecological economics: markets, prices and budgets in a sustainable society. The foundations of sustainable development: ethics, law, culture and the physical boundaries. Implementing sustainable development; from intention to action.</i>
Classes	<i>Energy efficiency, waste segregation and recycling. Perspectives for</i>

	<p>sustainable development of agricultural and rural areas in Poland. Heuristics methods in search for sustainable development (SWOT analysis, mind mapping, brain storming). Consumerism - our free choice or a new form of slavery? Game theory applied for sustainable development idea comprehension. Fair trade. Educational games: the freeway planning game, the trading game. Ecological education. Agenda 21. Analyzing and working on contemporary sustainable development strategies (at both the local and global).</p>
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## 6. LITERATURE

Basic literature	<p>Granvik M., Rydén L., 2002. <i>Basic Patterns of Sustainability</i>. Baltic University Press, Uppsala.</p> <p>Brown L.R., 2001. <i>Eco-Economy: Building an Economy for the Earth</i>. Earthscan Publications Ltd., London.</p> <p>Rydén L., 2003. <i>Building and Re-building Sustainable Communities</i>. Baltic University Press, Uppsala 2003.</p> <p>Edwards A.R., 2005. <i>The sustainability revolution: portrait of a paradigm shift</i>. New Society Publishers, Gabriola Island, Canada.</p> <p>Rydén L., Migula P., Andersson M., 2003. <i>Environmental Science Understanding, Protecting and Managing the Environment in the Baltic Sea Region</i>. Baltic University Press, Uppsala.</p>
Supplementary literature	<p>Rohweder L., Virtanen A., 2008. <i>Learning for a Sustainable Future</i>. Baltic University Press, Uppsala.</p> <p>Børge Klemmensen B., Pedersen S., Dirckinck-Holmfeld K.R., Marklund A., Rydén L., 2007. <i>Environmental Policy – Legal and Economic Instruments</i>. Baltic University Press, Uppsala.</p> <p>Nilsson L., Persson P.O., Rydén L., Darozhka S., Zaliauskiene A., 2007. <i>Cleaner Production – Technologies and Tools for Resource Efficient Production</i>. Baltic University Press, Uppsala.</p> <p>Colchester M., 2003. <i>Salvaging Nature Indigenous Peoples, Protected Areas and Biodiversity Conservation</i>. World Rainforest Movement, Montevideo.</p> <p>Korshuk E., Kryba I., Savich E., Solovyov P., Tamarina A., 2003. <i>English for Environmental Science</i>. Baltic University Press, Uppsala.</p>