STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
Economics of sustainable Development		**1011101351011137821**
Field of study	Profile of study (general academic, practical)	Year /Semester
Engineering Management - Full-time studies -	**general academic**	**3 / 5**
Elective path/specialty	Subject offered in:	Course (compulsory, elective)
-	**Polish**	**elective**
Cycle of study:	Form of study (full-time,part-time)	
First-cycle studies	**full-time**	
No. of hours		No. of credits
Lecture: **15** Classes: **15** Laboratory: **-** Project/seminars: **-**		**4**
Status of the course in the study program (Basic, major, other)	(university-wide, from another field)	
other	**university-wide**	
Education areas and fields of science and art		ECTS distribution (number and %**)**

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	The student has a basic knowledge from the microeconomics. He knows basic rights and principles of economics. He knows bases of the resource management and accounting rules.
2	**Skills**	The student is classifying assets and the natural resource. He is able to apply the bill of charges in the business activity. He is able to indicate rates of the lack of coherence in the economy. He is able to characterize guidelines of the environmental protection in the region.
3	**Social competencies**	The student is participating in preparation of projects taking economic aspects into account. He is aware of processes and social-economic phenomena. He is taking an active part in the life of the academic community.

Assumptions and objectives of the course:

Acquainting students with the fundamental assumptions of the sustainable development economics including the interdisciplinary knowledge.

Presenting three sustainable development strategies: effectiveness, cohesion, sufficient-ness.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. The student has knowledge about stages of the economics of the sustainable development. - [K1A_W01]
2. The student knows EU sustainable development policy - [K1A_W01]
3. The student knows the difference between the growth in the economy in the light of the traditional and contemporary economy. - [K1A_W06]
4. The student knows structural obstacles of the construction of the sustainable development. - [K1A_W06]
5. The student has a knowledge about, legal and political economic instruments for the environmental protections. - [K1A_W13]
6. The student knows contents of ethics of the sustainable development. - [K1A_W13]

Skills:

1. The student is able to list precursors of the economics of the sustainable development. - [K1A_U01]
2. The student is interpreting key challenges for the economics of the sustainable development in Poland. - [K1A_U01]
3. The student distinguishes crucial theses of the economics of the sustainable development and their main controversies. - [K1A_U02]
4. The student is able to enumerate hard and soft instruments in the environmental protection. - [K1A_U02]
5. The student is able to make the notion of the economics of the sustainable development operational. - [K1A_U03]
6. The student is able to explain proposals of the sustainable economic policy. - [K1A_U03]

Social competencies:

1. The student is taking an active part in discussion to the set subject. - [K1A_K03]
2. The student presents his readiness to take over responsibility for action serving the bodyguard of future generations and the own person - [K1A_K03]
3. The student is participating in the process of the interdisciplinary self-education. - [K1A_K03]
4. The student is oriented on the personal contribution to the sustainable development. - [K1A_K04]
5. The student is acting according to the need of the structure of the sustainable economy. - [K1A_K04]

Assessment methods of study outcomes

Forming assessment:

a) Classes: Current control of the level of knowledge verified in the discussion and questions asked during classes.

b) Lecture: basing on questions asked during the lecture, which refer to previous lectures on the subject

Final assessment

Final test checking the total of knowledge on the subject obtained during classes and lectures. Required at least 60% of correct answers

Course description

1. Differences between the traditional approach to the growth and economic development on basis of classical and neoclassical economy and the theory of sustainable development .
2. Economic growth in harmony with the natural environment (sustainable growth).
3. Reasons of excessive exploitation of natural resources and potential aid strategies.
4. Characteristic of chosen strategic regions for the sustainable development based on the example of the sustainable economic and energy policy, mobile policy and formation of products of the employment policy, as well as remuneration policy.
5. Sustainable development in relations between generations (the working generation and generation of senior citizens, at present living - future generations).
6. Reduction of the exaggerated consumerism as one of conditions of the sustainable development.
7. Strategies of saving resources.
8. Methods and instruments of the balanced economic policy.
9. Limits of the economic growth.

Basic bibliography:

1. Rogall H., Ekonomia zrównoważonego rozwoju, Zysk i Ska, Warszawa 2010.
2. Sachs J., The end of poverty, Penguin Books USA, New York 2005.
3. Kozłowski S., Ekorozwój. Wyzwanie XXI wieku, Wydawnictwo Naukowe PWN, Warszawa 2002.
4. Gospodarowanie zasobami środowiska. Podstawy ekonomiki ochrony środowiska, red. M.Wąsowicz, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2011.
5. Grudzewski W. M., Hejduk I. K., Sankowska A., Wańtuchowicz M., Sustainbility w biznesie czyli przedsiębiorstwo przyszłości ? zmiany paradygmatów i koncepcji zarządzania, Wydawnictwo Poltex, Warszawa 2010.
6. Makro- i mikroekonomia. Podstawowe problemy, Wyd. Naukowe PWN, Warszawa 1998, rozdz. 4.

Additional bibliography:

1. Stiglizt J. E., Wizja sprawiedliwej globalizacji. Propozycje usprawnień, PWE, Warszawa 2007.
2. Gospodarka a środowisko i ekologia, red. K. Małachowski, CeDeWu, Warszawa 2008.
3. Polityka Ekologiczna Państwa w latach 2009 ? 2012 z perspektywą do roku 2016, Ministerstwo Środowiska.
4. King A., Schneider B., Pierwsza rewolucja globalna. Jak przetrwać, Raport Rady Klubu Rzymskiego, Polskie Towarzystwo Współpracy z Klubem Rzymskim, Warszawa 1992.
5. RCSS. Polska 2025. Długookresowa strategia trwałego i zrównoważonego rozwoju, Warszawa 2000.
6. Ustawa ?Prawo ochrony środowiska?, Dz. U.2001, nr 62, poz. 627 ze zm. Dz. U. 2008, nr 25, poz. 150.
7. Uchwała Sejmu RP z 19 stycznia w sprawie polityki zrównoważonego rozwoju MP 1995, nr 4 poz. 47.
8. Strona internetowa Ministerstwa Środowiska, www.mos.gov.pl.
9. Strona internetowa ONZ: http://esa.un.org/unpp/index.asp?panel=1(średni wariant).

Result of average student's workload	
Activity	**Time (working hours)**
1. participation in lectures	15
2. participation in classes	15
3. preparation for classes	20
4. consultations	10
5. open learning	20
6. preparation for the exam	15
7. final assessment and exam	5

Student's workload		
Source of workload	**hours**	**ECTS**
Total workload	100	4
Contact hours	35	1
Practical activities	65	3