COURSE GUIDE

Subject name	**Sustainable management**
Course of study	**Quality and Production Management**
The form of study	**Full-time**
Level of qualification	**First**
Year	**III**
Semester	**VI**
The implementing entity	**Department of Production Engineering and Safety**
The person responsible for preparing	**dr hab. inż. Janusz Grabara, Prof PCz**
Profile	**General academic**
ECTS points	**2**

TYPE OF TEACHING – NUMBER OF HOURS PER SEMESTER

LECTURE	CLASS	LABORATORY	PROJECT	SEMINAR
15		**15**		**-**

COURSE AIMS

Cl. To acquaint students with the theoretical foundations of sustainable management.
C2. To acquaint students with the conditions for the implementation of sustainable management principles.
C3. Education of the ability to independently evaluate and verify elements of sustainable management.
C4. Promotion by student philosophy of sustainable management.

ENTRY REQUIREMENTS FOR KNOWLEDGE, SKILLS AND OTHER COMPETENCES

1. The student should know the basics of ecology and sustainable development.
2. The student should identify and understand the basic terms in the field of sustainable management.
3. The student should be able to organize work independently in accordance with the principles of sustainable management.
4. The student promotes knowledge about sustainable management in their environment.

LEARNING OUTCOMES

EU1. The student understands the concept of sustainable development and its multifaceted nature The student is able to choose the assessment method and make it in the area of sustainable management.
EU2. The student is able to choose the assessment method and make it in the area of sustainable management.
EU3. The student is able to construct a path of behavior characterizing sustainable management.
EU4. The student promotes knowledge about sustainable management in their environment.

COURSE CONTENT

Type of teaching – LECTURE	Number of hours
W1. Explain the definition of philosophy and mentions how it is important in sustainable management.	1
W2. the theoretical principles of sustainable logistics.	2
W3. The model of perfect consciousness describes that sustainable management can be achieved through the six factors.	1
W4. Holistic — characteristic of living organisms which consist of the perception of the world as a whole. Qualitative — which consist in acknowledging the relationships of quality in the whole. Spiritual — the existing and functioning not only the mind but also the human psyche. References — characterised by respect and reverence to all that exist. Evolutionary — assuming the orientation of all processes in nature to the	4

increasing diversity and richness of life. Participant — assuming that the man is not just an observer of the world but also a participant.	
W5. The multi-dimensional process involving eco development and later he explains the four groups of the definition of sustainable management.	3
W6. Uses a pyramid of waste hierarchy to show us the various methods that could be adopted in fulfilling the idea of sustainable management.	2
W7. Critical review of contemporary sustainable management and the importance of activities for the social acceptance of tasks implemented by Sustainable Development.	2
Type of teaching – LABORATORY	**Number of hours**
L1. The importance of the concept of sustainable development management.	3
L2. Sustainable development management models.	3
L3. Evolutionary — assuming the orientation of all processes in nature to the increasing diversity and richness of life.	3
L4. Critical rewiev of suatainable development Management.	3
L5. social acceptance of tasks implemented by Sustainable Development.	3

TEACHING TOOLS

1. Blackboard chalk.
2. Computers and a multimedia projector.
3. Power Point presentations.

WAYS OF ASSESSMENT (F – FORMATIVE, P – SUMMATIVE)

F1. A work involving the assessment of the degree of implementation of sustainable logistics on selected examples**.**

STUDENT WORKLOAD

Form of activity		**Average number of hours for realization of the activity**		
		[h]	ECTS	ECTS
Contact hours with the teacher	Lecture	15	0.6	0.8
Preparation for lecture		5	0.62	
Contact hours with the teacher	Laboratory	15	0.6	0.8
Preparation for laboratory		5	0.2	
Getting acquainted with the indicated literature		5	0.2	0.2
Consultation		5	0.2	0.2
TOTAL NUMBER OF HOURS / ECTS POINTS FOR THE COURSE		**50**	**2**	

BASIC AND SUPPLEMENTARY RESOURCE MATERIALS

Basic resources

1. Grabara J. Sustainable Logistics Management. Editura Universitatii "Lucian Blaga"din Sibiu, 2013, Romania.
2. Grabara J. Paradoxes of Sustainable Development within European Integration. The 9th Edition of the International Conference European Integration Realities and Perspectives. 2014, Romania.
3. Grabara J. Stars or Starlets of Sustainable Development. 2nd EAI International Conference on Management of Manufacturing Systems (MMS CONFERENCE 2017), Stary Smokowiec, Slovakia.
4. Grabara J. Sustainable Development Management — Never Fullfiled Dream. Quality-Access to Success Vol 20, 2019, Romania.

Supplementary resources

1. Sachs J.D. The Age of Sustainable Development. Columbia University Press 2015.

2. Sanneh ES „Systems Thinking for Sustainable Development: Climate Change and the Environment. Springer 2018.

TEACHERS (NAME, SURNAME, E-MAIL ADDRESS)

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MATRIX OF LEARNING OUTCOMES REALISATION

Learning outcome	Reference of given outcome to outcomes defined for whole program (PRK)	Course aims	Course content	Teaching tools	Ways of assessment
EU1	K_W01, K_W02, K_W05, K_W09, K_W10, K_U01, K_U02, K_U06, K_U07, K_U09, K_U10, K_K04, K_K05	C1, C2	W1, W2, W3, L1	1-3	F1
EU2	K_W01, K_W02, K_W05, K_W09, K_W10, K_U01, K_U02, K_U06, K_U07, K_U09, K_U10, K_K04, K_K05	C1, C2	W4, W6, L2, L3	1-3	F1
EU3	K_W01, K_W02, K_W05, K_W09, K_W10, K_U01, K_U02, K_U06, K_U07, K_U09, K_U10, K_K04, K_K05	C1, C2	W5, L4	1-3	F1
EU4	K_W01, K_W02, K_W05, K_W09, K_W10, K_U01, K_U02, K_U06, K_U07, K_U09, K_U10, K_K04, K_K05	C1, C2	W7, L5	1-3	F1

FORM OF ASSESSMENT - DETAILS

	grade 2	grade 3	grade 4	grade 5
EU1	The student does not know the basic concepts of sustainable management.	The student does know the basic concepts of sustainable management.	The student can apply terms and vocabulary appropriate to the issues discussed about sustainable management.	The student is able to build an appropriate scale of assessment of sustainable management.
EU2	The student can not carry out the assessment of sustainable management.	The student can carry out the assessment of sustainable management.	The student is able to conduct research and assessment of sustainable management using existing terminology.	Student is able to specify his own method of assessing sustainable management and comment on it.
EU3	The Student can not able to construct a path of behavior characterizing sustainable management.	The Student can carry able to construct a path of behavior.	The Student can carry able to construct a path of behavior characterizing sustainable management.	The Student can carry able to construct a path of behavior characterizing sustainable management and comment on it.
EU4	The student can not promotes knowledge about sustainable management in their environment.	The student can promotes sustainable management in their environment.	The student promotes knowledge about sustainable management in their environment.	The student promotes knowledge about sustainable management in their environment and justify the importance of these activities.

ADDITIONAL USEFUL INFORMATION ABOUT THE COURSE

1. Information where presentation of classes, instruction, subjects of seminars can be found, etc. - presented to students during first classes, if required by the formula classes are sent electronically to the e-mail addresses of individual dean groups.
2. Information about the place of classes - Information can be found on the website of the Faculty of Management.
3. Information about the timing of classes (day of the week / time) - Information can be found on the website of the Faculty of Management.
4. Information about the consultation (time + place) - Information can be found on the website of the Faculty of Management.