

SYLLABUS

Name: **Social sciences (HES) (MakAu>SM1SS(HES)-19)**

Name in Polish:

Name in English: **Social sciences (HES)**

Information on course:

Course offered by department: Faculty of Automatic Control, Electronics and Computer Science
Course for department: Silesian University of Technology

Default type of course examination report:

ZAL

Language:

English

Short description:

The aim of the course is to introduce basic socio-economic concepts. The aim of the course is to provide students with the ability to understand and use basic categories of market economy, both at the micro- and macroeconomic level. The acquired knowledge and skills will enable the student to correctly assess the processes occurring in the economies, both in micro- and macroeconomic perspective, influencing production decisions.

Description:

ECTS: 2

Total workload: 50 hours (25 contact hours, 25 students' own work hours)

Lecture 15h

Other (egz. test revision and discussion): 10h

Students' own work: preparation for test

1. The fundamental economic concepts. The tools of economic analysis. Economic models, scientific method and theory, laws, principles, the presentation of economic data.
2. The market economy. Categories of market, demand curve, supply curve, the market equilibrium, the determinants of demand and supply, the market mechanism analysis, the elements of demand and supply elasticity, the implication of elasticities, the forms of government intervention in market mechanism.
3. The households. The household as an economic unit, the functions of households, the utility – maximization rule.
4. The producer theory and the production decisions, the economic costs and returns of production, the determinants of costs, the maximization profit producer motivation.
5. The Circular Flow in economy. National output, business cycle in economy.
6. Main macroeconomic objectives: economic growth and development, inflation, unemployment
7. Macroeconomic policies: fiscal policy, monetary policy

Bibliography:

1. Begg, D., Fischer, S., Dornbusch, R. Economics. Second Edition. McGraw-Hill Book Company,
2. Mankiw, N. G., Taylor, M. P. Economics., Second Edition. South-Western, Cengage Learning, 2011.
3. Samuelson P. A., Nordhaus W.D., Economics, McGraw-Hill Book Company, 2004
4. McConnell C.R., Brue S.L., Economics, McGraw-Hill, 2007

Learning outcomes:

The student is able to identify socio-economic problems when solving engineering tasks (final test): K2A_U15, K2A_K03, K2A_K04, K2A_K06,

The student is able to analyze and evaluate the economic aspects of engineering activities (final test): K2A_U15, K2A_K05,

The student is ready to be responsible in organizing activities in a socio-economic environment (final test): K2A_K03, K2A_K04, K2A_K06.

Assessment methods and assessment criteria:

The final grade is based on final test. Students need to obtain at least 6 points of 10.

The syllabus is valid from academic year 2024/25 and its content cannot be changed during the semester.

Course credits in various terms:

<without a specific program>				
Type of credits	Number	First term	Last term	
European Credit Transfer System (ECTS)	2	2020/2021-L		