COURSE DESCRIPTION CARD – SPECIMEN

<table>
<tr><td colspan="10">Faculty of Mechanical Engineering</td></tr>
<tr><td>Field of study</td><td colspan="6">Biomedical Engineering
Mechanical Engineering
Mechatronics</td><td>Degree level and programme type</td><td>"-"</td></tr>
<tr><td>Specialization/ diploma path</td><td colspan="6">"-"</td><td>Study profile</td><td>"-"</td></tr>
<tr><td rowspan="2">Course name</td><td colspan="6" rowspan="2">Final Project</td><td>Course code</td><td>IS-MER0053S
IS-MER0053W</td></tr>
<tr><td>Course type</td><td>"-"</td></tr>
<tr><td rowspan="2">Forms and number of hours of tuition</td><td>L</td><td>C</td><td>LC</td><td>P</td><td>SW</td><td>FW</td><td>S</td><td>Semester</td><td>winter/summer</td></tr>
<tr><td></td><td></td><td></td><td>8</td><td></td><td></td><td></td><td>No. of ECTS credits</td><td>15</td></tr>
<tr><td>Entry requirements</td><td colspan="9">"-"</td></tr>
<tr><td>Course objectives</td><td colspan="9">Achieving the skills of preparing plan and schedule of the process of the engineer task realization. Acquaintance rules of selection of methods and techniques of reasoning problems. To get and improve practical skills in writing the final project thesis. Deepening skills of appropriate choice and use of literature references and the skill of use of scientific and technical data bases. Improving skills of preparing the report of the engineer task realization.</td></tr>
<tr><td>Course content</td><td colspan="9">Characterization of the possible solutions of the problem stated in the engineer project derived from the current state of knowledge. Studying a literature and technical regulations. Formulation of methods and maners of problems for implementations. Usage of manual and computer methods. Preparing documentation of the implementing problem.</td></tr>
<tr><td>Teaching methods</td><td colspan="9">laboratory work, project</td></tr>
<tr><td>Assessment method</td><td colspan="9">"-"</td></tr>
<tr><td>Symbol of learning outcome</td><td colspan="8">Learning outcomes</td><td>Reference to the learning outcomes for the field of study</td></tr>
<tr><td>LO1</td><td colspan="8">Student has a knowledge connecting with chosen problems from biomedical/mechanical engineering</td><td></td></tr>
<tr><td>LO2</td><td colspan="8">Student knows selection rules of methods and techniques for implementation of engineering problems</td><td></td></tr>
<tr><td>LO3</td><td colspan="8">Student knows computer programs and methods needed in solving and implementation of engineering problems</td><td></td></tr>
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LO4	**Student can use different sources for searching needed information**	
LO5	**Student can use selected methods and computer programs**	
LO6	**Student can prepare a good document of analysis of the engineering problem**	
LO7	**Student properly recognizes and determinates problems in engineering thesis**	
Symbol of learning outcome	**Methods of assessing the learning outcomes**	**Type of tuition during which the outcome is assessed**
LO1	Evaluation of the thesis	
LO2	Evaluation of the thesis	
LO3	Evaluation of the thesis	
LO4	Evaluation of the thesis	
LO5	Evaluation of the thesis	
LO6	Evaluation of the thesis	
LO7	Evaluation of the thesis	
Student workload (in hours)		**No. of hours**
Calculation	**Study of literature and other information sources**	**75**
	Preparing and doing engineering calculations and/or experimental studies and/or theoretical analysis	**120**
	Analysis and comparison of obtained results, formulate of conclusions	**105**
	Editing of thesis	**35**
	Participation in tutorial	**25**
	TOTAL:	**360**
Quantitative indicators	**HOURS**	**No. of ECTS credits**
Student workload – activities that require direct teacher participation	**25+5**	**1**
Student workload – practical activities	**360**	**14**
Basic references	**References are connected with topic of engineering thesis and chosen by Student under supervisor guidance**	
Supplementary references	**References are connected with topic of engineering thesis and chosen by Student under supervisor guidance**	
Organisational unit conducting the course		**Date of issuing the programme**
Author of the programme	**Joanna Mystkowska, PhD Eng, DSc, Assoc. Prof.**	**4.10.2020**

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work, S – seminar