

APPENDIX TO A RESOLUTION 4/2020

REQUIREMENTS FOR DIPLOMA THESES
 IN THE FIELDS OF COMPUTER SCIENCE AND APPLIED INFORMATICS
 AT THE FACULTY OF COMPUTER SCIENCE AND MANAGEMENT

CRITERION	MASTER'S THESIS	ENGINEER'S THESIS
Thesis title and subject matter	The title of the thesis should be unambiguous, concise, clearly defined and adequate to the content. The subject of the work concerns a clearly separated problem or issue, the solution or development of which is undertaken by the author. The work is in line with the field of study.	
Thesis nature	Its nature can be: 1) <i>Analytical and research</i> through obtaining new research results, their qualitative and quantitative analysis, interpretation, detection of new mechanisms and dependencies, new aspects of phenomena and processes; (2) <i>Analytical and design</i> by proposing new solutions or improvements with respect to the current state of science and technology; (3) <i>Review</i> through a systematic presentation and a critical discussion of theoretical and technical issues concerning any particular part of reality in the light of current scientific literature.	Its nature can be: (1) <i>Analytical and design</i> through the use of classic solutions or their improvements with respect to the current state of technology and practice. The work may include research elements. However, they do not qualify an excellent grade.
Thesis goal	The thesis should include research objectives that require the selection and application of research methods using theoretical and scientific knowledge. It must be clear what is new in the work. We also need the discussion about the limitations and weaknesses / strengths of the developed solution (if applicable).	The thesis should include practical objectives that require the selection and application of engineering methods using technical knowledge and know-how. The discussion on the limitations and weaknesses / strengths of

	<p>The aim of the work is to answer the question whether the level of the author's knowledge and know-how ensures becoming successful by solving research problems</p> <p>The thesis is a complete study, both in terms of structure and content, confirming the ability to independently solve a research problem.</p>	<p>the implemented solution is highly recommended.</p> <p>The aim of the work is to answer the question whether the level of the author's knowledge and know-how ensures becoming successful by solving engineering problems.</p>
<p>Thesis structure and content</p>	<p>It is in the form of a written monographic work, divided into sections and subsections. All parts of the work are related to the goal accomplishment.</p> <p>The structure of the work clearly distinguishes:</p> <ul style="list-style-type: none"> • An introduction containing defined goals of the work, motivations behind the study and a brief description of its content. • The literature overview referring to the topic and problems of the work, in which, in the light of the available scientific and technical literature, basic terms, current achievements, theoretical approaches and the state of the current research findings concerning the studied phenomenon are characterized. • The research section, in which the research objectives, problems and questions are formulated, as well as the methods, techniques and research tools used are described. Moreover, this part of the work should contain a description of the research or a case study along with the interpretation of the findings. • A summary that provides the most important conclusions, recommendations for further work and a review of potential applications. • A bibliography containing up-to-date, comprehensive and reliable sources, including scientific publications - at least a 	<p>It is in the form of a written monographic work, divided into sections and subsections. All parts of the work are related to the goal accomplishment.</p> <p>The structure of the work clearly distinguishes:</p> <ul style="list-style-type: none"> • An introduction containing defined goals of the work, motivations behind the study and a brief description of its content. • The analytical and design section justifying the placement of the given issue against the background of similar solutions and source materials available. The methods, techniques, tools, concepts used to solve design problems of a given type are presented, as well as the justification for their selection. This part also includes a detailed description of the design, calculations, measurements, implementation, demonstration of the results and their evaluation. • A summary that provides the most important conclusions, recommendations for further work and a review of practical

	dozen or so references, with a predominance of journal articles, but only those works which are cited in the text. In the case of a review work, the bibliography should contain at least several dozen journal articles or conference papers.	usage. • A bibliography containing up-to-date, comprehensive and reliable sources, including technical sources - at least a dozen references, for example books, articles, reports and technical documentation, but only those works which are cited in the text.
Thesis results	The results generally should be of cognitive nature and could be of applied nature. The findings of the study should be investigated in detail. Additionally, the thesis should provide original and somewhat innovative results.	The results generally should be of applied nature and could be of cognitive nature. A technical evaluation of obtained results should be delivered.
Thesis formatting and style guidelines	The work must meet the recommended editorial requirements agreed at the Faculty. The work is written grammatically and stylistically correct avoiding colloquial and jargon language. Keep your language factual, concise and clear. Use the correct terminology applied in computer science. Additional elements of the work, such as tables, charts, drawings, etc. all are supposed to be legible to illustrate the contents.	