



Graduation Process

Jerzy Świątek

<https://dlaczegologia.pl/>

Contact hours,

- Room 120, building C-3
- Monday (even week) time: 7⁰⁰-9⁰⁰
- Monday time: 12⁰⁰-13⁰⁰
- Wednesday time: 11⁰⁰-13⁰⁰
 - ZOOM platform
or after appointment room 120, building C-3,

Degrees

- First degree – engineer, bachelor's degree

Acquiring knowledge and skills that allow to **keep the current** economy moving based on current, existing modern methods using current achievements of science and technology.

- Second degree – master's degree

Acquiring knowledge and skills that **allow for the creative use** of current achievements of science and technology.

- Third degree – PhD

Acquiring knowledge and skills that **allow for the development** of science and technology.

DIPLOMA THESIS

■ ENGINEERING DIPLOMA THESIS

Problem formulation + analysis of current solutions and literature + selection of the right method and tools + complete solution of the problem or subproblem (special case, simplified version)

■ MASTER'S THESIS

In-depth literature studies + critical reflection (based on experience) + extension/generalization/deepening formulation of the problem + development of methods and tools (with elements of innovation) + problem solving

REQUIREMENTS FOR DIPLOMA THESES

AT THE FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY

<https://wit.pwr.edu.pl/en/students/graduatesn/diploma-thesis>

CRITERION	MASTER'S THESIS	ENGINEER'S THESIS
Thesis title and subject matter	<p>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.</p>	
Thesis nature	<p>Its nature can be:</p> <ol style="list-style-type: none">1) Analytical and research through obtaining new research results, their qualitative and quantitative analysis, interpretation, detection of new mechanisms and dependencies, new aspects of phenomena and processes;(2) Analytical and design by proposing new solutions or improvements with respect to the current state of science and technology;(3) Review 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.* <p>* Thesis of the review nature is acceptable in fields of study whose learning outcomes allow for this form</p>	<p>Its nature can be:</p> <p>(1) Analytical and design through the use of classic solutions or their improvements with respect to the current state of technology and practice.</p> <p>The work may include research elements. However, they do not qualify an excellent grade.</p>

Thesis supervisor

- Watches over the proper course of work
- Watches over the appropriate substantive level of work
- Advises, criticizes, gives opinions, evaluates
- **The supervisor is not a co-author of the work !!**

The diploma thesis is a documentation of the acquired knowledge and skills of the diploma student!!!

TEXT OF THE DIPLOMA THESIS

Achievements of the graduate (work results - theoretical and practical) are relevant, but the supervisor and reviewer make a rating based on the analysis

TEXT OF THE DIPLOMA THESIS

DIPLOMA THESIS – EDITORIAL RECOMMENDATIONS

WHAT SHOULD BE and what is usually not there?

- **Identify alternative solutions**
 - the task/problem set
 - tasks/partial problems
- **Description of decision-making processes**
 - including the justification for the choice of the adopted method of
- **It is not enough to answer a question**
 - "How (to complete the set task)"?
- **It should be clarified**
 - "Why this way and not otherwise"?

WHAT SHOULD BE

And what is usually not found in?

- **Description of difficulties encountered during the implementation of the work**
- **Description of the procedure for testing the correctness of the proposed solution**
- **Compare the proposed solution with other solutions**
- **Critical reflection**

WHAT SHOULD BE and what sometimes is not there

- **Accurate division of tasks for two-person work**
- **Formally,**
 - **the lack of this element disqualifies the work – should not be judged !!**

WHAT SHOULDN'T BE

and often there is

- Too extensive introduction, unrelated to the topic of the work
- Popular science "talk",
 - e.g.:- history of the Internet
 - development of mobile telephony
- Description of commonly used software tools (philosophy of object-oriented programming, C++, Java, php, MySQL, ...)
- Theoretical considerations (formulas, ...) - not used in the practical part of the work

THE "PHILOSOPHY" OF WRITING A THESIS

- Focus on describing "own contribution,,
- Describe not only the end result (the result of the work), but also the process of reaching the of this effect
- Answer the question:
 "How and why is it so?,,

"The work should be a presentation of the logical sequence of events, thoughts and choices that led to the final solution.,,"

T. Starecki

VOLUME OF WORK – HOW MUCH SHOULD THERE BE?

As little as possible!!

- **Concise communication - a valuable skill of an engineer**
- **The number of errors increases faster than linearly as a function of text length**
- **Satisfaction of the supervisor and reviewer**

in practice: 60-100 pages,

but not more than 70 pages of "main text"

(to the bibliography) – the rest in the appendices

VOLUME OF WORK – HOW MUCH SHOULD THERE BE?

- **The dangers of increasing the volume of work by "general considerations" (which are a compilation of information from the literature)**
 - **errors resulting from incomplete knowledge - the description is selective**
 - **dissatisfaction of the supervisor and the reviewer**
 - **danger (temptation) of committing plagiarism**

Practical notes

Writing a paper takes longer than it seems, correcting it takes about 40% of the time

It is especially difficult to "formulate the problem" - it requires "feedback" from the supervisor

Table of Contents Analysis is a good tool for assessing the quality of work

Supervisor/reviewer - also a person is not able to read/review a work (several works) in two days

Reluctantly takes on the same work (delivered piece by piece) several times

In the final version of the work, there are often elementary formatting errors, the effect of corrections at the last minute

digression - PLAGIARISM

- **COPYRIGHT INFRINGEMENT**
- *Principle: the phrase ("word") is protected, not the idea*
- use of a fragment of text or graphic element in an opinion, commentary, news, lecture, seminar, teaching materials (with manuscript rights), scientific report (with manuscript rights) or internal document, indication of the source, clear distinction (in the case of text – quotation marks) and, if necessary, an appropriate note (acknowledgment).
- **use of a fragment of text or graphic element in a commercial document (book, product advertising materials)**

Attribution + Copyright Owner's Permission (in Writing)

Diploma seminar

■ Presentation I

- Formulation of the topic of the work
- Purpose and scope of work, motivation
- Location against the background of existing solutions, against the background of literature
- Tasks to be performed (including project and research tasks)

■ Presentation II

- Purpose and scope of work
- Originality of the solution
- Original results obtained
- Deployment (publish) capabilities
- Summary of further work

After each presentation, you should submit a presentation named:
Name_presentation_1 and Name_presentation_2 to my mail
jerzy.swiatek@pwr.edu.pl

Diploma Seminar, Second Degree, Wednesday

	Date	Name
Seminar 1	2.03.2026	Jerzy Świątek
Seminar 2	9.03.2026	1 Bogacz Jakub 2 Bolbas Valentina
Seminar 3	16.03.2026	3 Domalewski Mateusz 4 Drogoś Szymon 5 Gandhi Ritik
Seminar 4	23.03.2026	6 Kuznetsov Daniil 7 Ladhari Adem 8 Machnik Łukasz
Seminar 5	13.04.2026	9 Mohamed Ahmed 10 Niewiński Jakub 11 Ravichandran Sathiskumar
Seminar 6	20.04.2026	12 Skuła Wojciech 13 Stamirski Nikodem 14 Szydłak Filip
Seminar 7	27.04.2026	15 Śmigaj Ewa 16 Urban Krzysztof 17 Wiora Zofia
Seminar 8	4.05.2026	18 Włodarski Jakub 19 Wójcik Weronika 20 Yemialyanava Vera

Diploma Seminar, Second Degree, Wednesday

Seminar 9	11.05.2026	1 Bogacz Jakub 2 Bolbas Valentina 3 Domalewski Mateusz
Seminar 10	18.05.2026	4 Drogoś Szymon 5 Gandhi Ritik 6 Kuznetsov Daniil
Seminar 11	25.05.2026	7 Ladhari Adem 8 Machnik Łukasz 9 Mohamed Ahmed
Seminar 12	1.06.2026	10 Niewiński Jakub 11 Ravichandran Sathiskumar 12 Skuła Wojciech
Seminar 13	8.06.2026	13 Stamiński Nikodem 14 Szydłak Filip 15 Śmigaj Ewa 16 Urban Krzysztof
Seminar 14	15.06.2026	17 Wiora Zofia 18 Włodarski Jakub 19 Wójcik Weronika 20 Yemialyanava Vera
Seminar 15	22.06.2026	Passing (attendance obligatory)

Thank you for attention

