Master's thesis - course description

General information

Course name	Master's thesis
Course ID	13.2-WF-FizD-MT-S17
Faculty	Faculty of Physics and Astronomy
Field of study	Physics
Education profile	academic
Level of studies	Second-cycle studies leading to MS degree
Beginning semester	winter term 2020/2021

Course information

Semester	4
ECTS credits to win	12
Course type	obligatory
Teaching language	english
Author of syllabus	• prof. dr hab. Krzysztof Urbanowski

Classes forms

The class form	Hours per semester (full-time)	Hours per week (full-time)	Hours per semester (part-time)	Hours per week (part-time)	Form of assignment
Class	0	0	-	-	Credit

Aim of the course

Submitting a thesis fulfilling the criteria of a master's thesis and written under the supervision of a supervisor.

The work should provide a global overview of the selected problems and methods of solving these problems as well as presention of the conclusions.

During the work on thesis, students learn the methodology of searching for source materials and proper use of them, editing technical texts, applying copyright.

Prerequisites

The student's opinion on his/her own research interests and a knowledge of the literature on the topic of work. Basics in editing technical texts and preparing drawings and graphs illustrating the obtained results.

Scope

The thematic scope concerns a specification of the thesis topic in correspondence to the student's interests and justification of his/her willingness to undertake the appropriate problem. The proper literature and the methods of work should be chosen in correspondence to the selected topic. In case of experimental work, the student conducts experimental research, describes the apparatus and results and, finally, interprets it. In the case of theoretical work the student solves a theoretical problem using appropriate mathematical methods and symbolic or numerical calculations. Theoretical work can also be a review of problems which has been already studied in literature.

Teaching methods

Discussions with the supervisor on particular stages of work, self-study with literature and research apparatus, drawing graphs and graphics using appropriate software, discussion on obtained results.

Learning outcomes and methods of theirs verification

Outcome description	Outcome symbols	Methods of verification	The class form
The student knows and understands the need of respect and protect intellectual property, presents correctly the source of the information	• K2_W08 • K2_W09	• a discussion • a project • a written assignment	• Class
He/she can plan, prepare and write his own scientific work satisfying the criteria of the thesis	• K2_U10 • K2_U12	• a discussion • a project • a written assignment	• Class
He/she has a wide knowledge on the topic of thesis.	• K2_W01 • K2_W06	• a discussion • a project • a written assignment	• Class

Assignment conditions

Submitting a thesis which meets the criteria of the master thesis.
The work should include:
- a clearly defined research problem,
- references to the basic literature of the subject,
- description of methods used to solve the problem (techniques, research tools is applied).

Recommended reading

[1] T. T Kaczmarek, Poradnik dla studentów piszących pracę licencjacką lub magisterską, dostępna na stronie http://bg.szczecin.pl/wp-content/uploads/2015/10/poradnik_dla_studentow.pdf

[2] R. Kolman, Zdobywanie wiedzy. Poradnik podnoszenia kwalifikacji (magisteria, doktoraty, habilitacje), Oficyna Wydawnicza Branta, Bydgoszcz-Gdańsk 2003

[3] S. Urban S., W. Ładoński, Jak napisać dobrą pracę magisterską, wydanie czwarte uzupełnione, Wydawnictwo Akademii Ekonomicznej im. Oskara Langego we Wrocławiu, Wrocław 2001.

[4] D. Lindsay, Dobre rady dla piszących teksty naukowe, Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 1995.

[5]P. Kenny*, Panie Przewodniczący, Panie, Panowie...,.Przewodnik po sztuce i technice wystąpień publicznych ułożony specjalnie dla inżynierów i pracowników nauki,* Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 1995.

[6] B. von Stengel, Guide to Writing MSc Dissertations, http://www.maths.lse.ac.uk/personal/stengel/TEXTE/diss-how-final.pdf

Further reading

[1] J. Wytrębowicz, Rady i zalecenia dla autorów prac dyplomowych i raportów z pracowni dyplomowych, dostępna na stronie http://staff.ii.pw.edu.pl/~jwt/jak_pisac.pdf

Notes

Modified by dr hab. Piotr Lubiński, prof. UZ (last modification: 09-06-2020 22:56)