

**DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND
TECHNOLOGY**

SUPERVISOR DECLARING/CONDUCTING COURSE: dr inż. Przemysław Scherwentke
FACULTY OF PURE AND APPLIED MATHEMATICS/DEPARTMENT OF PURE
MATHEMATICS

COURSE CARD

Course name in Polish: Profesjonalny skład tekstu w systemie LaTeX

Course name in English: Professional preparation of documents in the LaTeX system

Course language Polish

3) management course

Subject code: MAQ100120W

	Lecture	Foreign language course	Seminar	Mixed forms
Number of hours of organized classes in university (ZZU)	30			
Grading	Exam			

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES

1. Basic knowledge of scientific and mathematic notation.
2. Computer skills.

COURSE OBJECTIVES

C1 Obtaining knowledge of LaTeX and typesetting rules

C2 Typesetting moderate complicated scientific texts.

C3 Ability of transforming between documents like the report (PhD), the article, the presentation etc.

C4 Getting to know basic programming aspects LaTeX.

C5 Recognizing improperly typeset texts.

C6 Recognizing subtleties carried by the proper typography, especially in an own area of interest.

PROGRAM CONTENTS

Form of classes – lecture (Lec)		Number of hours
Lec1	Introduction to TeX. Error interface.	2
Lec2	Main commands.	2
Lec3	Mathematical mode.	2
Lec4	Advanced structures in math mode.	2
Lec5	Some environments of text mode.	2
Lec6	The structure of the document. Counters. Category codes (as an introduction to macros).	2

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Lec7	Some typographic rules.	2
Lec8	Basic knowledge about macros.	2
Lec9	Advanced macros, although with a structure.	2
Lec10	Graphics in LaTeX.	2
Lec11	Table of contents, index, bibliography. BibTeX.	2
Lec12	Presentations. The beamer package.	2
Lec13	Selected LaTeX packages.	2
Lec14	Typography of a journal article and a book — practice.	2
Lec15	Practice of programming in TeX/LaTeX.	2
	Total hours:	30

TEACHING TOOLS USED
N1. Multimedia lectures. N2. Project and discussion

ACHIEVED SUBJECT LEARNING OUTCOMES		
Type of learning outcome	Code of learning outcome	Assessment of learning outcome
Knowledge	P8S_WK	Has organized knowledge of typesetting scientific works, including PhD thesis and journal articles
Skills	P8S_UK	Is able to prepare and present an oral and multimedia presentation in English on the implementation of the research and to lead a discussion on the presented presentation
Skills	P8S_UK	Shows an active attitude in preparing a scientific publication in the form of a book or in the form of a scientific publication for printing in a peer-reviewed scientific journal listed in among scientific journals published by the Minister of Science and Higher Education, or in a peer-reviewed report on an international scientific conference or a public presentation of an artistic work
Skills	P8S_UK	Is able to prepare and make a public presentation of the results of research work, including a doctoral dissertation prepared under the supervision of a supervisor or supervisors, or an assistant supervisor and supervisor
Social competence	P8S_KR	Is aware of the social role of the scholar

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PRIMARY AND SECONDARY LITERATURE

PRIMARY LITERATURE:

- [1] Leslie Lamport, LaTeX. System opracowywania dokumentów. Podręcznik i przewodnik użytkownika. WNT, 2004.
- [2] Kazimierz Borkowski, LaTeX. Profesjonalny skład publikacji, 1992.
- [3] Marcin Borkowski, Bartłomiej Przybylski, LaTeX książka kucharska. Online:
<https://www.ptm.org.pl/latex-ksiazka-kucharska>

SECONDARY LITERATURE:

- [1] Donald Knuth, TeX. Przewodnik użytkownika. WNT, 2005.
- [2] Antoni Diller, LaTeX wiersz po wierszu: zasady i techniki przetwarzania dokumentów, Helion, 2001.
- [3] Helmut Kopka, Patrick W. Daly, Guide to LaTeX, Addison-Wesley, 2003.

SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)

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