(*faculty stamp*)

COURSE DESCRIPTION

1. Course title: M.Sc. thesis	**2. Course code**
3. Validity of course description: 2016/2017	
4. Level of studies: 2nd cycle of higher education	
5. Mode of studies: intramural studies	
6. Field of study: Industrial and Engineering Chemistry	RCH
7. Profile of studies: -	
8. Programme: general	
9. Semester: 3	
10. Faculty unit teaching the course: Department of Chemical Engineering and Process Design	
11. Course instructor: supervisor, dr hab. inż. Krzysztof Piotrowski (registration)	
12. Course classification: field	
13. Course status: compulsory	
14. Language of instruction: English	
15. Pre-requisite qualifications: Subjects lectured at 1st and 2nd cycle of higher education.	
16. Course objectives: The course objective is the preparation of M.Sc. thesis according to the supervisor's indications.	
17. Description of learning outcomes: underneath	

Nr	Learning outcomes description	Method of assessment	Teaching methods	Learning outcomes reference code
1.	student understands the topic and aim of M.Sc. thesis	supervisor's evaluation	consultation	K_W02 +
2.	student carries out a literature survey and selects items involved with his/her thesis	supervisor's evaluation	consultation	K_U01 + K_U09 +
3.	student performs experimental research (for experimental-type thesis) or process calculations (for design-type thesis)	supervisor's evaluation	consultation	K_U09 + K_U10 +
4.	student prepares a preliminary form of his/her M.Sc. thesis together with results discussion and conclusions	supervisor's evaluation	consultation	K_U04 +
5.	student prepares a final version of his/her M.Sc. thesis	supervisor's evaluation	consultation	K_U04 + K_K01 +

18. Teaching modes and hours

Lecture / BA /MA Seminar / Class / Project / Laboratory

M.Sc. thesis, sem. 3 - 210 hrs

19. Syllabus description:

The subject consists of a few stages. In the first one student makes a survey of literature concerning the M.Sc. topic. Based on this survey he/she prepares a theoretical part of the thesis. Then he/she carries out laboratory research for experimental thesis or calculations for design thesis. The further steps consist of results elaboration and discussion and formulation of conclusions. The last step is a final preparation of the thesis.

20. Examination: no

21. Primary sources:

According to supervisor's indications

22. Secondary sources:

According to supervisor's indications

23. Total workload required to achieve learning outcomes

Lp.	Teaching mode :	Contact hours / Student workload hours
1	Lecture	-/-
2	Classes	-/-
3	Laboratory	210/210
4	Project	
5	BA/ MA Seminar	-/-
6	Other	180/180
	Total number of hours	390/390

24. Total hours: 780 h

25. Number of ECTS credits: 26

26. Number of ECTS credits allocated for contact hours: 13

27. Number of ECTS credits allocated for in-practice hours (laboratory, classes, projects): 7

28. Comments:-

Approved:

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(date, Instructor's signature)

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(*date , the Director of the Faculty Unit signature)*