

FACULTY OF ELECTRICAL
ENGINEERING**SUBJECT CARD**

Name in Polish: **Praca dyplomowa magisterska**
 Name in English: **Master's thesis**
 Main field of study (if applicable): **Electrical Engineering**
 Specialization (if applicable): **Industrial Electrical Engineering**
 Level and form of studies: **2nd level, full-time**
 Kind of subject: **optional**
 Subject code: **ELR042159D**
 Group of courses: **NO**

	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU):				180	
Number of hours of total student workload (CNPS):				540	
Form of crediting:				crediting with grade	
For group of courses mark (X) final course:					
Number of ECTS points:				18	
including number of ECTS points for practical (P) classes :				18	
including number of ECTS points for direct teacher-student contact (BK) classes:				12.60	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES**SUBJECT OBJECTIVES****SUBJECT EDUCATIONAL EFFECTS***relating to knowledge:**relating to skills:*

PEK_U01 xx

PEK_U02 xx

relating to social competences:

PEK_K01 xx

PROGRAMME CONTENT

Form of classes - project		Number of hours:
Proj 1	xx	180
Total hours:		180

TEACHING TOOLS USED**EVALUATION OF SUBJECT EDUCATIONAL EFFECTS ACHIEVEMENT**

Evaluation <i>F – forming (during semester) P – concluding (at semester end)</i>	Educational effect number	Way of evaluating educational effect achievement
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PRIMARY AND SECONDARY LITERATURE**PRIMARY LITERATURE:**

- [1] Guttenbaum J., Modelowanie matematyczne systemów, Akademicka Oficyna Wydawnicza EXIT, Warszawa 2003.
 [2] Kaczorek T., Wektory i macierze w automatyce i elektrotechnice, WNT, Warszawa 1998.
 [3] Fortuna Z., Macukow B., Wąsowski J., Metody numeryczne. WNT, Warszawa 2003
 [4] Stachurski M., Metody numeryczne w programie Matlab. Wydawnictwo MIKOM, Warszawa, 2003.

SECONDARY LITERATURE:

- [1] Michalewicz Z., Algorytmy genetyczne + struktury danych = programy ewolucyjne. WNT Warszawa 1996.
 [2] Jankowski J. I M., Przegląd metod i algorytmów numerycznych, cz.1, WNT, Warszawa 1981
 [3] Dryja M., Jankowski J. I M., Przegląd metod i algorytmów numerycznych, cz.2, WNT, Warszawa 1982
 [4] Kiełbasiński A., Schwetlick H., Numeryczna algebra liniowa, WNT, Warszawa 1992
 [5] Krupka J., Morawski R.Z., Opalski L.J., Metody numeryczne dla studentów elektroniki i technik informacyjnych, Oficyna Wydawnicza Politechniki Warszawskiej Warszawa 1999
 [6] Moler C., Numerical Computing with MATLAB. Electronic edition. Dostępny w: <http://www.mathworks.com/moler/index.html>
 [7] Rosołowski E., Cyfrowe przetwarzanie sygnałów w automatyce elektroenergetycznej. Akademicka Oficyna Wydawnicza EXIT, Warszawa 2004.
 [8] Bjorck A., Dahlquist G., Metody numeryczne, PWN, Warszawa 1987
 [9] Baron B., Piątek Ł., Metody numeryczne w C++ Builder. Wydawnictwo Helion 2004
 [10] Mathews J.H., Fink K.D., Numerical methods using MATLAB. Prentice Hall, 2004

SUBJECT SUPERVISOR

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MATRIX OF CORRELATION BETWEEN EDUCATIONAL EFFECTS FOR SUBJECT
ELR042159D - Master's thesis
 AND EDUCATIONAL EFFECTS FOR MAIN FIELD OF STUDY **Electrical Engineering**
 AND SPECIALIZATION **Industrial Electrical Engineering**

Subject educational effect	Correlation between subject educational effect and educational effects defined for main field of study and specialization (if applicable)	Subject objectives	Programme content	Teaching tool number
PEK_U01	S2ETP_U11		Proj1	
PEK_U02	S2ETP_U11		Proj1	
PEK_K01	K2ETK_K04 K2ETK_K06		Proj1	