

Master seminar CAE

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| Faculty of | Mechanical and Power Engineering |
| Name in English | Master seminar CAE |
| Name in Polish | Seminarium dyplomowe |
| Main field of study | Power Engineering |
| Specialization | Computer Aided Mechanical and Power Engineering |
| Level of studies | II level |
| Form of studies | full-time |
| Kind of subject | optional |
| Subject code | W09ENG-SM2350 |
| Group of courses | NO |

| | Lecture | Classes | Laboratory | Project | Seminar |
|---|---------|---------|------------|---------|------------|
| Number of hours of organized classes in University (ZZU) | | | | | 30 |
| Number of hours of total student workload (CNPS) | | | | | 50 |
| Form of crediting | | | | | Zaliczenie |
| For group of courses mark final course with (X) | | | | | |
| Number of ECTS points | | | | | 2 |
| including number of ECTS points for practical (P) classes | | | | | 2 |
| including number of ECTS points for direct teacher-student contact (BU) classes | | | | | 1,28 |

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES

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| 1. | Passing all subjects covered by the plan of study in semesters prior to graduation semester ("Diploma seminar" course is accompanied by the "Master of Science Diploma Dissertation" course). |
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SUBJECT OBJECTIVES

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| C1 | Improving skills in the search for selective knowledge needed to create their own original ideas and solutions, and prepare a presentation that allows pass them on to others meaningful way |
| C2 | Improving the ability to lead creative discussion during which can be justify the proposed solutions or ideas in a concrete and innovations |
| C3 | Improving skills in the dissertation writing on a specific topic, presenting their own achievements against the background of known existing solutions |
| C4 | Shaping the beliefs about the need for permanent development of their personality in all its aspects |
| C5 | Developing a sense of conscientiousness and responsibility for the undertaken commitments, both to themselves and to others |

SUBJECT LEARNING OUTCOMES

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| relating to skills: | |
| PEU_U01 | Student can obtain information from a various sources necessary to comply energy systems projects in order to improve existing solutions |
| PEU_U02 | Student can prepare a coherent paper or presentation on the work carried out, containing the results of the proposed design solutions, technological or operational |

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| PEU_U03 | Student is able to objectively justify the desirability of his/her original ideas and solutions during the discussion and critically evaluate the technical solutions proposed by others |
| relating to social competences: | |
| PEU_K01 | Student understands the need to improve their professional and personal competence, is aware of the social consequences of engineering activities |
| PEU_K02 | Student is able to cooperate and actually behave in a group, actively participate in the discussions on the professional topics with cultural expression and respect for different views of other participants in the discussion |
| PEU_K03 | Student can think and act in a creative and enterprising manner, is able to define the priorities which determine the success of a scheduled task |

PROGRAMME CONTENT

| seminar | | Number of hours |
|-------------|--|-----------------|
| Se1 | Discussion of the substantive requirements of the diploma thesis, structure and scope the different types of dissertations. Presentation of the general principles of conduct the final exam. Set a schedule of the individual student presentations | 2 |
| Se2-7 | Individual students presentations on the current state of knowledge related to the issues of the realized diploma thesis, propose of the direction of further solutions. Discussions in the seminar group on the presented topics | 12 |
| Se8-13 | Individual presentations about the realized diploma thesis with emphasis on their original achievements with the discussions in the seminar group. | 12 |
| Se14 | Individual presentations - additional term | 2 |
| Se15 | Crediting with grade | 2 |
| Suma godzin | | 30 |

TEACHING TOOLS USED

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| N1 | Multimedia presentation |
| N2 | Problematic discussion |
| N3 | Individual work |

EVALUATION OF SUBJECT EDUCATIONAL EFFECTS ACHIEVEMENT

| Evaluation (F– forming (during semester), C– concluding (at semester end)) | Educational effect number | Way of evaluating educational effect achievement |
|--|---------------------------|---|
| F1 | PEU_U01, PEU_U02, PEU_U03 | Average rating for presentations, the ability to justify the advisability of the proposed solutions and the substantive referring to the proposals of other seminar participants. |
| F2 | PEU_K01, PEU_K02, PEU_K03 | Average rating for timely execution of the presentations, for the culture of speech, the ability to behave in a group and conduct discussions, for creativity and entrepreneurship. |
| P1=(2*F1+F2)/3 | | |

PRIMARY AND SECONDARY LITERATURE

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| Primary literature | |
| 1 | 1. Literature related to the issues of the thesis |
| Secondary literature | |
| 1 | |

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

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| Imię i nazwisko: | Dean of the Faculty |
| E-mail: | |