

KARTA PRZEDMIOTU

Nazwa przedmiotu: Presentation of scientific and technical subjects (WTCNXCSM-PoSATS2)

Nazwa w języku polskim:

Nazwa w jęz. angielskim: Presentation of scientific and technical subjects

Dane dotyczące przedmiotu:

Jednostka oferująca przedmiot: Instytut Fizyki Technicznej
Przedmiot dla jednostki: Wydział Nowych Technologii i Chemii
Cykl dydaktyczny: Semestr zimowy 2025/2026
Koordynator przedmiotu cyklu: dr hab. inż. Eva Oton Martinez

Domyślny typ protokołu dla przedmiotu:

Zaliczenie na ocenę

Język wykładowy:

angielski

Skrócony opis:

Methodology of presentation of scientific topics in written and spoken English. Guides for the preparation of a presentation.
Scientific terminology: Materials engineering, Chemistry, Physics.
Technical usage of English in the scientific world.

Opis:

1. Description of the course. Survey of English level: grammar, vocabulary and speech.
2. Evaluation of students' knowledge of technical English.
3. Expansion of the scientific vocabulary: Use, define and explain scientific and technological terms;
4. Expansion of the scientific vocabulary related to analysis and experimentation.
5. Discussion - Role play: explaining, and convincing.
6. Preparation of short business emails, reports, and notes on scientific topics.
7. Writing a scientific abstract from a scientific article.
8. Considerations when preparing an oral presentation - audience, purpose, organization.
9. Considerations when preparing an oral presentation - organization, flow, style
10. Presentation Delivery: (1) Presentation delivery approaches, (2) Importance of visual aids and problems with using slides, (3) Designing effective slides (4) Speed, stress, intonation, and pronunciation.
11. Guidelines for preparing presentations and completing evaluation reports: Topics of general interest vs. technical topics. General design and format for students' presentations.
12. Scientific Conference: Typical agenda, rules, workflow, and expressions.
13. Presentation Sessions (1) - Topic of general interest in science and engineering (10 - 15 minute presentation + 5 minute Q&A session).
14. Presentation Sessions (2) - Technical scientific topic (10 - 15 minute presentation + 5 minute Q&A session).
15. Presentation Sessions (3) - Poster presentation in a scientific conference (Q&A session).

Literatura:

Basic:

1. P. Domański, English in Science and Technology, WNT, 1993.
2. L. Szkutnik, An Introductory Course in Scientific English, PWN, 1978.
3. R. Macpherson, University English, Wydawnictwa Szkolne i Pedagogiczne, 1994.
4. E. B. Uvarov, A. Isaacs, Dictionary of Science, The Penguin, 1993

Complementary:

1. P. Atkins & J. de Paula, Physical Chemistry, Oxford University Press, 2005.

Efekty uczenia się:

Symbol / Efekty uczenia się / Odniesienie do efektów kierunku

- W1 / Presents knowledge within the range of scientific and technological problems / K_W03, K_W04,
W2 / Has the indispensable knowledge to formulate a detailed description of basic chemical, physical and physicochemical phenomena
K_W03, K_W04,
W3 / Knows the general chemical, mathematical and physical terminology necessary to translate papers on scientific and technological
issues / K_W03, K_W04,
U1 / Is able to formulate problems in English within the range of exact sciences / K_U01
U2 / Has the ability to present scientific and technological issues both in written and oral way as well as to describe results of scientific
research / K_U05
U3 / Is able to make use of electronic and printed sources of scientific information / K_U01
U4 / Is able to present scientific and technological issues in the form of publications, lectures and conference appearances / K_U05
K1 / Properly recognizes and solves problems related to his/her profession / K_K06

Metody i kryteria oceniania:

Students will be evaluated based on their work comprising of:

1. Observations of the students' first presentation (Topic of general interest in science and engineering) (30%).
2. Observations of the students' second presentation (Technical topic) (30%).
3. Observations of the students' poster presentation (20%).
3. In-class participation / Textbook exercises / Homework (20%)

The final mark is the arithmetical average of the marks obtained for the two requirements mentioned above.

Accomplishment of W1, W2, W3, U1, U2, U3, U4, K1 verified during the oral presentation and during formulation and preparation of the exercises.

Grade 2 – less than 50% of the required knowledge;

Grade 3 – 50 ÷ 60% of the required knowledge;

Grade 3,5 – 61 ÷ 70% of the required knowledge; Grade 4 – 71 ÷ 80% of the required knowledge; Grade 4,5 – 81 ÷ 90% of the required knowledge; Grade 5 – more than 91% of the required knowledge.
Grade 5 is given to a student who has acquired knowledge, skills and competencies contained in the teaching results system, is competent and consistent in the knowledge acquirement process.
Grade 4 is given to a student who has acquired knowledge, skills and competencies contained in the teaching results system on a good level.
Grade 3 is given to a student who has acquired knowledge, skills and competencies contained in the teaching results system on a satisfactory level.
Grade 2 is given to a student who has not acquired the basic knowledge, skills and competencies contained in the teaching results system and has not accomplished the necessary requirements.
Forma studiów
stacjonarne
Rodzaj studiów
II stopnia
Rodzaj przedmiotu
obowiązkowy
Przedmioty wprowadzające
Physics, Chemistry and Mathematics at a technical university level. English level equivalent to B1/B2 (intermediate or upper-intermediate level).
Programy
Material Engineering
Forma zajęć liczba godzin/rygor
Exercises 30 hours
Autor
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Bilans ECTS
No. Activity Workload in hours 1. Participation in lectures 2. Participation in laboratories 3. Participation in exercises: 30 hours 4. Participation in seminars 5. Independent study of lecture topics 6. Independent preparation for laboratories 7. Independent preparation for exercises: 20 hours 8. Independent preparation for seminars 9. Project implementation 10. Participation in consultations: 11. Preparation for exam 12. Preparation for credit: 10 hours 13. Participation in exam Total student workload: 60 hours 2.0 ECTS Classes with teachers: 1+2+3+4+9+10+13: 30 hours; 1 ECTS Classes related to scientific activity: 30 hours 1.0 ECTS
Dane dotyczące przedmiotu cyklu:
Domyślny typ protokołu dla przedmiotu cyklu:
Zaliczenie na ocenę