

COURSE ABSTRACT

“PROFESSIONALLY SPECIALIZED ENGLISH LANGUAGE WORKSHOP”

Course type (compulsory or optional)	compulsory
Course level (study cycle)	MA
Semester the course is studied	I year, I semester
Study form (full-time, part-time or distant)	full-time
Volume in ECTS credits	6 credits

Course programme designed by Associate Professor: Yanovsky A.S.

Prerequisites for entering the course: Quantum Mechanics, Statistical Physics, Physical Chemistry, Solid State Physics, Surface Physics, Foreign Language for Professional Purposes.

The goal of the course:

- attract senior students to get acquainted with the most important advances in physics, mathematics and natural sciences directly from English periodicals and academic sources that will expand their opportunities to continue education or employment after graduation;
- formation of the active and passive vocabulary of terms in the field of solid state physics, semiconductor physics, physics of metals, physical chemistry, material science, surface physics, physics of nanoscale structures, quantum-chemical simulation ect.

Distribution of workload for students (contact and independent work hours):

SCHEDULED LEARNING AND TEACHING ACTIVITY: tutorials	48 hours
GUIDED INDEPENDENT STUDY: independent research, online research, independent reading, independent translating, literature review ect.	132 hours
Total:	180 hours

Assessment forms: control of individual tasks, special tests, control of home and practical tasks, credit.

Assessment criteria: only those students who received more than 35% by all forms of current control from general amount of points are admitted to the final control; the students who received more than 91% by all forms of current control from general amount of points won't have to take final control.

Recommended reference materials:

• **Basic materials:**

1. Карабан В.І. Переклад англійської наукової і технічної літератури: лексичні труднощі / В.І. Карабан – Вінниця.: «Нова книга», 2001. - 271 с.
2. Корунець І.В. Теорія і практика (аспектний переклад): підручник / І.В. Корунець–Вінниця. «Нова книга», 2001. - 448 с.
3. Черноватий Л.М. Переклад англословної технічної літератури: лексичні труднощі / Л.М. Черноватий– Вінниця.: «Нова книга», 2006. - 296 с.
4. Большой англо-русский политехнический словарь: В 2 т. Около 200 000 терминов / С.М. Баринов, А.Б. Борковский и др. – М.: «Русский язык», 1991.
5. Блейкмор Дж. Физика твёрдого тела / Дж. Блейкмор. - М.: “Мир”, 1988. - 608 с.

6. Орешкин П.Т. Физика полупроводников и диэлектриков / П.Т. Орешкин. - М.: "Высшая школа", 1977. - 448 с.
7. Горбачёв В.В. Физика полупроводников и металлов / В.В. Горбачёв, Л.Г. Спицина. - М.: "Металлургия", 1982. - 336 с.
8. Olga Ananina and Olexandr Yanovs'ky, Boron ions B^+ interaction with Si(100) and Ge(100) surfaces. Vacuum. -2010. V. 84.- pp. 335-338.
9. O. Anan'yina, O. Yanovsky, Simulation of SiH_4 adsorption on H/Si(100) surfaces, Thin Solid Films 501 (2006) 354.
10. A.S. Yanovsky, S.V. Kolomojets. Hydrogen interaction with Si and Ge surface clusters. Vacuum, **54**/1-4, 1999, p.47.
 - **Supplementary materials:**
 1. Казакова Т.А. Практический курс перевода / Т.А. Казакова – Сб: Союз, 2004. - 350с.
 2. Левицкая Т.Р. Теория и практика перевод с английского языка на русский / Т.Р. Левицкая - М.: Издательство литературы на иностранных языках, 1980 – 180 с.
 3. Ашкрофт Н. Физика твердого тела. В 2-х ч. / Н. Ашкрофт, Н. Мермин - М."Мир", 1979 г.