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***ENGLISH  
FOR STUDENTS OF ELECTRONICS***



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**1-85** Посібник з англійської мови *English for Students of Electronics*  
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Посібник складається з сімнадцяти основних уроків та додаткової частини, яка охоплює тексти для самостійного опрацювання, спеціальні тексти та біографії деяких науковців, які заснували науку електроніку та сприяють її розвитку. В кінці посібника подано англomовний глосарій основних термінів з галузі електроніки та англо-український словник.

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**Key terms:** *biomedical electronics, computer systems and networks, optical and electronic information science, radioecology, semiconductor electronics, radio electronic materials studies*

The faculty of Electronics was organized on February 26, 2003 after the division of the Physics faculty into two faculties – that of electronics and that of physics.

The faculty prepares specialists in three specialties, two of them – radiophysics and electronics, as well as applied physics, existed at the former physics faculty. The specialty physical and biological electronics was founded at the new faculty. Every year 90 students begin to study the specialty ‘applied physics’, 35 – ‘electronics’, 20 – physical and biological electronics.

The students are trained by the teachers and lecturers at the six chairs: electronics, nonlinear optics, radio physics, physical and biomedical electronics, physics of semiconductors, radio electronic materials studies. The teaching staff amounts to 41 instructor, including eleven professors, doctors of sciences (three of them - Professors M.Stakhira, M.Pashkovs’kyj and R.Lutsiv being the winners of national prizes), and 29 masters of sciences. There are 36 training and 9 research laboratories at the faculty.

After the second year of studies the students can choose one of eight specialties, such as: biomedical electronics, computer systems and networks, scientific and technological expertise and radioecology, optical and electronic information science, semiconductor electronics, physical electronics, radio electronic materials studies, radio physical systems.

Various research laboratories are furnished with modern equipment and computing facilities. Important research is carried out in the laboratories of sensorics, optical and electronic materials, radio electronic devices and others. Practically all the chairs and laboratories have an access to the Internet.

The faculty graduates work as engineers and researchers in research institutions and industrial enterprises both in theoretical and applied fields of electronics.

The researchers and teaching staff maintain close contacts with numerous universities and research institutions both in Ukraine and abroad. These are: the Universities of Vienna (Austria), Wroslaw (Poland), Lion (France), Moscow (Russia), and others. The university researchers carry

out investigations in the laboratories of Germany, France, Netherlands, Great Britain, USA, Japan, Poland, Russia and other countries. They often participate in international scientific conferences as well as hold conferences here in Lviv. Thus, the best students have the possibility to communicate with outstanding scientists in the field of electronics. Moreover, they have an opportunity to participate in fellowship and exchange programmes in the most prestigious educational institutions in Europe.

### Vocabulary notes

winner, n	переможець, лауреат
access, n	доступ
fellowship, n	стипендія
prestigious, adj	престижний
moreover, conj	більше того
facilities, n	можливості, засоби
network, n	схема
maintain, v	підтримувати, зберігати
graduate, n, v	випускник, закінчувати вуз

### Tasks

**I. Task 1 is to be done throughout this book (Units 1-17) in two ways by the students with different levels of language competence.**

**\* for A and B level students: give the English equivalents of the following phrases or terminological word combinations in group B (cover with a sheet of paper the English equivalents in group A so as not to see them)**

**\* for C and D level students: for each item in section A choose the corresponding Ukrainian equivalent in section B**

**A:** to train specialists; teaching staff; winners of national prizes; biomedical electronics, computer systems and networks, scientific and technological expertise; semiconductor electronics; radio electronic materials studies; various research laboratories; to furnish with modern equipment; computing facilities; to carry out research; radio electronic devices; to have an access; the faculty graduates; industrial enterprises; both in theoretical and applied fields of electronics; to maintain close contacts; research institutions; both in Ukraine and abroad; the possibility to communicate; outstanding scientists; in the field of electronics; moreover, to participate in fellowship and exchange programmes; the most prestigious educational institutions

**В:** мати доступ; науково-дослідні установи; промислові підприємства; у теоретичних і прикладних галузях; дослідження радіоелектронних матеріалів; ринкомантні дослідні лабораторії; встановлювати сучасне обладнання, більше того, обчислювальна техніка; підтримувати міцні контакти; ком'ютерні системи та схеми; науково-технічні експертиза; електроніка напівпровідників; проводити дослідження; радіоелектронні пристрої; найпрестижніші навчальні заклади; як в Україні, так і за кордоном; можливість спілкуватися; видатні науковці, у галузі електроніки; випускники факультету; брати участь у програмах обміну; готувати спеціалістів; викладацький склад; лауреати національних премій; біомедицина електроніка

**II. Expressing the main idea of each paragraph in one sentence, make up the outline of the text. Retell the text according to this scheme**

**III. Prepare the dialogues using the information available in the text about the faculty of electronics. The situations may be different. You must remember that each dialogue usually consists of three parts: a) greetings, b) the main part, c) saying good-bye. Use the phrases given in the table below**

- a) hi, hello; glad to meet you; haven't seen you for ages, where have you been;
- b) you see; to tell the truth; my choice of the future specialty was due to the fact that...; frankly speaking; our future is impossible without ...; on the one hand, on the other hand; electronic devices; fellowship programme;
- c) thanks for...; I am sorry I have to ...; good luck; see you later; bye

## **CHAIRS OF THE FACULTY OF ELECTRONICS**

### **1. The Radiophysics Chair**

The Radiophysics Chair (till 1999 – the chair of theoretical foundations of electrical radio engineering) was founded in 1964 by the famous scientist M. Maksymovych. Since that time four doctoral and 35 candidate theses have been defended at the chair, 9 monographs and 35 volumes of the journal "Theoretical Electrical Engineering" were published, 26 workshops and 4 conferences on the problems of theoretical radio engineering, electronics