

NATIONAL AVIATION UNIVERSITY
Educational and Research Institute of Humanities
Foreign Languages and Applied Linguistics Department

AGREED

Director of ER IIDS

“__” _____ 2017 S.Filonenko

APPROVED

Vice-Rector for Academics
and Educative Activity

«__» _____ 2017 T. Ivanova



Quality Management System

COURSE TRAINING PROGRAM

on

“Foreign Language for Specific Purpose”

Field of study: 15 “Automation and instrumentation”
Speciality: 151 “Automation and computer-integrated technologies”
Specialization: “Computer-integrated technological processes
of production”

Year of Study – 2nd, 3rd Semester – 3rd, 4th, 5th, 6th

Practicals – 134 Graded Test – 3rd, 4th, 5th, 6th semester
Self-study – 106
Total (hours/ECTS credits) – 240/8

Index ECB-14-151/16-3.1



The Course Training Program on “Foreign Language for Specific Purpose” is based on the Bachelor Extended Curriculum № ECB-14-151/16 for Speciality 151 “Automation and Computer-integrated Technologies” and Specialization “Computer-integrated Technological Processes of Production”, Syllabus for this Subject, Index CB-5-192/16-3.1, approved “____” _____ 2017 and correspondent normative documents.

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Master copy



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1. INRODUCTION

The Course Training Program on the subject is developed on the basis of syllabus “Foreign Language for Specific Purpose” and “Methodical instructions for development and preparation of a syllabus and a course training program of subjects” adopted on 16.06.2015 by №37/order.

2. SUBJECT CONTENT

2.1. Training schedule of the subject

№	Topic	Academic Hours		
		Total	Total	Total
1	2	3	4	5
2 Year				
3 semester				
Module №1 “Modern Technologies. The Internet”				
1.1	The Internet’s History. The Infinitive	4	2	2
1.2	WWW and the Internet. The functions of the Infinitive in the sentence	4	2	2
1.3	The global network in modern life	3	2	1
1.4	The Internet and education. WIKI sites. The complex Object	3	2	1
1.5	Web engines, web sites, web pages, web servers	4	2	2
1.6	Modern technologies in our life. The Complex Subject	4	2	2
1.7	Hi-tech and the Internet technologies	3	2	1
1.8	Robototechnics and atomic energetic. The Gerund	3	2	1
1.9	Aircraft building and space crafting as the component of hi-techs	4	2	2
1.10	Data. Informatics. Information technologies. The Gerund and Infinitive	4	2	2
1.11	Data. Informatics and data products	3	2	1
1.12	Information technologies and data products	3	2	1
1.13	Architecture of DBMS	4	2	2
1.14	Software for data processing	3	2	1
1.15	Scientific Software	3	2	1
1.16	Presentation on topic	4	2	2
1.17	Module test №1.	4	2	2
Total for Module №1		60	34	26
Total for the 3rd semester		60	34	26
4 semester				



Module № 2 “Biometrics. Biometric Devices”				
2.1	Biometrics. The Participle I	4	2	2
2.2	Biometrical systems	4	2	2
2.3	Biometrical systems of data protection	3	2	1
2.4	Biometrical scanner. The Participle II	3	2	1
2.5	Biometrical identification	4	2	2
2.6	Biometrical identification and its static methods	4	2	2
2.7	Biometrical identification and its dynamic methods	3	2	1
2.8	Biometric devices in our life	3	2	1
2.9	Types and classes of biometric sensors and systems. The Participle constructions	4	2	2
2.10	Chemical biometric devices	4	2	2
2.11	Visual biometric devices	3	2	1
2.12	Behavior biometric devices. The Gerund, Paerticiple I, Participle II. Typology	3	2	1
2.13	Audio biometric devices	4	2	2
2.14	Biometric systems in personal gadgets	3	2	1
2.15	Biometric documents	3	2	1
2.16	Presentation on topic	4	2	2
2.17	Module test №2.	4	2	2
Total for Module №2		60	34	26
Total for the 4th semester		60	34	26
Total for the 2nd year		120	68	52
3 Year				
5 semester				
Module №3 “Artificial Intelligent”				
3.1	Artificial Intelligent. The Conditional Mood	4	2	2
3.2	History of Artificial Intelligent. The Conditional Mood I	4	2	2
3.3	Artificial Intelligent as the branch of computer linguistics and informatics. The Conditional Mood II	3	2	1
3.4	Computer teaching as a part of Artificial Intelligent	3	2	1
3.5	Computer Vision	4	2	2
3.6	Artificial Intelligent and its status	4	2	2
3.7	The usage and future development of Artificial Intelligent	3	2	1
3.8	What is Intelligent? Can the computer think?	3	2	1
3.9	Nanotechnologies. The Conditional Mood	4	2	2
3.10	Nanotechnologies and nanosciences	4	2	2



3.11	Nanomaterials. The grammar constructions with “I wish”, “If only”	3	2	1
3.12	Nanoconductors. The grammar constructions with “I wish I were”	3	2	1
3.13	Nanotechnologies and their unique characteristics	4	2	2
3.14	Nanotechnologies and their unique characteristics. The grammar constructions with “I wish ...would”	3	2	1
3.15	Society’s attitude to nanotechnologies. The grammar constructions with “I wish ...had been”	3	2	1
3.16	Presentation on topic	4	2	2
3.17	Module test №3.	4	2	2
Total for Module №3		60	34	26
Total for the 5th semester		60	34	26
6 semester				
Module №4 “Computer Viruses. Antivirus Programmes ”				
4.1	Computer virus	4	2	2
4.2	History of creation of the first computer virus	4	2	2
4.3	Types and names of computer viruses. The Modal Verbs “Can”, “Could” and their equivalents	3	2	1
4.4	Features of infected computers. The Modal Verbs “May”, “Might” and their equivalents	4	2	2
4.5	Boot viruses, file viruses, invisible viruses, retro viruses, computer worms and others. The Modal Verbs “Must”, “Have to”	4	2	2
4.6	Types of antivirus programmes	4	2	2
4.7	Antivirus programmes. Detection. The Modal Verbs “Should”, “Ought to”	3	2	1
4.8	Antivirus programmes. Treating. “Need”	3	2	1
4.9	Antivirus programmes. Revisions . The Modal Verbs “Shall”, “Will”	4	2	2
4.10	Antivirus programmes. Filtration.. Modal verbs to express permission	4	2	2
4.11	Antivirus programmes. Vaccination . Modal verbs to express duty, necessity, order, advice and prohibition	4	2	2
4.12	Cyberspace	3	2	1
4.13	Cybercrimes	3	2	2
4.14	Cyber terrorism. Modal verbs to express logical supposition	4	2	2
4.15	Presentation on topic	4	2	2
4.16	Module test №4.	4	2	2
Total for Module №4		60	32	28
Total for the 6th semester		60	32	28
Total for 3rd year		120	66	54



Total for the Subject

240

134

106

3. BASIC CONCEPTS OF GUIDANCE ON THE SUBJECT

3.1. List of references

Basic literature

3.1.1. Шостак О.Г. Professional English: Information Technology Language : підруч. / О.Г. Шостак, Б.В. Бистрова, О.В. Сарсадських. – К.: «Талком», 2014. – 374с.

3.1.2. Dictionary of Physics / Edited by Valerie H. Pitt. – Longman Group Ltd, 2001. – 368 p.

3.1.3. Tamzen, Armer. Cambridge English for Scientists. – Cambridge : Cambridge University Press, 2011. – 128 p.

3.1.4. Virginia Evans. Round Up 5. Grammar book. – Longman, 2004. – 210 p.

Additional literature

3.2.1. Crowell, Benjamin. Electricity and Magnetism. – Fullerton, California, 2002. – 166 p.

3.2.2. Crowell, Benjamin. Optics. – Fullerton, California, 2001. – 98 p.

3.2.3. David Millar, Ian Millar, John Millar and Margaret Millar. The Cambridge Dictionary of Scientists. 2 edition. – New York : Cambridge University Press, 2002. – 428 p.

3.2.4. Deeson, Eric. Collins Internet-linked Dictionary of Physics. – London : Harper Collins Publishers Ltd, 2007. – 538 p.

3.2.5. Foley Mark & Hall Diane. My Grammar Lab. Grammar book. Intermediate B1– B2. – Pearson Publishing House, 2012. – 385 p.

3.2.6. Hewitt, P. Conceptual Physics. 9th edition. Boston : Pearson Prentice Hall, 2009. – 480 p.

3.2.7. Ibbotson M. Professional English in Use. Engineering. Technical English for professionals. – Cambridge : Cambridge University Press, 2009. – 144 p.

3.2.8. Jewett, Serway. Physics for Scientists and Engineers. 6th edition. – California : California State Polytechnic University, 2004. – 1284 p.

3.2. List of basic guidance materials for the subject

№	Name	Index of Topics where Guides are Used	Amount
1.	Video extracts on topics “Modern technologies in our life”, “Biometrics”, “Nanotechnologies”	1.6-1.7, 2.1-2.8, 3.9-3.13	Electronic copy
2.	Audio dialogues on topics “Artificial Intelligence”	1.1, 1.8	Electronic copy
3	Table of Conditional Sentences	3.1-3.9	1 Soft Copy



4. RATING SYSTEM OF KNOWLEDGE AND SKILLS ASSESSMENT

4.1. Grading of different kinds of academic work performed by a student is done in accordance with Table 4.1.

Table 4.1

3–6 semester			
Module №1–4		Max Grade	
Kind of Academic Activities	Max Grade		
Text Reading and Translation (8 texts x 3 grades)	24 (total)		
Knowledge of Terms	3		
Text Retelling (4 texts x 5 grades)	20 (total)		
Article Translation and Retelling	5		
Discussion of the Topic	4		
Knowledge of Grammar (testing)	5		
Preparing a Presentation on the topic	7		
<i>A student is to gain not less than 41 grades to be allowed to write Module Test №1-4</i>			
Module Test №1-4	20		
Total for Module №1–4	88		
Semester Graded Test		12	
Total Semester Grade		100	

4.2. A student is considered to have passed the module if both his/her Current Module Grade and Module Test Grade are positive (see Table 4.2).

4.3. The grades a student has been given for different kinds of academic work are summed up and the result constituting a Current Module Grade is entered into the Module Grade Register.

Table 4.2

Correspondence between the Grades for different kinds of activities and the National Scale

Grades				Module Test grade	National Scale
Text Reading and Translation, Knowledge of Terms	Text Retelling, Article Translation and Retelling, Knowledge of Grammar (testing)	Discussion of the Topic	Preparing a Presentation on the topic		
3	5	4	7	18–20	Excellent
2,5	4	3	6	15–17	Good
2	3	2,5	4–5	12–14	Satisfactory
under 2	under 3	under 2,5	under 4	under 12	Bad



4.4. The sum of the Current Module Grade and the Module Test Grade is the Total Module Grade (Table 4.3) whose grades and the National Scale is entered into the Module Grade Register.

Table 4.3

Correspondence between the Total Module Grades and the National Scale

Module №1-4	National Scale
79-88	Excellent
66-78	Good
53-65	Satisfactory
under 53	Bad

4.5. The Semester Module Grade is calculated as the sum of the Total Module Grades. The correspondence between Semester Module Grade values and the National Scale is given in Table 4.4.

Table 4.4.

Correspondence between the Semester Module Grades and the National Scale

Grades	National Scale
79-88	Excellent
66-78	Good
53-65	Satisfactory
under 53	Bad

Table 4.5

Correspondence between the Graded Test Grades and the National Scale

Grades	National Scale
Graded test	
12	Excellent
10	Good
8	Satisfactory
-	–

4.6. The Semester Module Grade and the Graded Test Grades together make up a Total Semester Grade whose correspondence to the National Scale and the ECTS Scale is shown in Table 4.6.

Table 4.6

Correspondence of the Total Semester Grades to the National Scale and the ECTS System

Total Semester Grades	National Scale	ECTS System	
		ECTS Grade	Explanation
90-100	Excellent	A	Excellent (excellent performance with insignificant shortcomings)
82-89		B	Very Good (performance above the average standard with a few mistakes)
75-81		C	Good (good performance altogether with a certain number of significant mistakes)
67-74	Satisfactory	D	Satisfactory (performance meets the average standards)



60-66		E	Sufficient (performance meets the minimal criteria)
35-59	Unsatisfactory	FX	Bad (bad performance; a second testing is required)
1-34		F	Bad (very bad performance; a student shall retake the course)

4.7. The Total Semester Grade is entered into the Examination Register and into a student's record book in grades, National Scale grades, and ECTS grades.

4.8. The Total Semester Grade is entered into a student's record book, for example: *92/Ex/A, 87/Good/B, 79/Good/C, 68/Sat/D, 65/Sat./E*, etc.

4.9. The Total Semester Grades of discipline are defined as the average arithmetic grade of the total semester grades in points (from the first to the sixth semesters for this subject) with its transfer into National Scale and ECTS Scale.

The indicated Total Semester Grade of the subject is entered in the Diploma Supplement.

