

NATIONAL AVIATION UNIVERSITY
Educational and Research Institute of Humanities
Foreign Languages for Specific Purposes Department

AGREED

Director of the Educational and
Research Institute of Computer
Information Technologies

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«___» _____ 2017

APPROVED

Vice-Rector for Academics
and Educative Activity

_____ T. Ivanova
«___» _____ 2017



Quality Management System

COURSE TRAINING PROGRAM

on

"FOREIGN LANGUAGE"

Field of study: 12 «Information Technologies»
Speciality: 123 «Computer Engineering»
Specialization: «Computer Systems and Networks»
«System Programming»

Year of Study – 1st


Semester - 1st, 2nd

Practicals – 68
Self-study – 52
Total (hours/ECTS credits – 120/4

Graded Test – 1st semester
Examination – 2nd semester

Index ECB–4–123/16–1.4

QMS NAU CTP 12.01.02-01-2017

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The Course Training Program on "Foreign Language" is based on the Bachelor Extended Curriculum № ECB - 4 - 123 / 16 for Speciality 123 "Computer Engineering" and Specialization "Computer Systems and Networks", "System Programming", Syllabus for this Subject, Index CB–4–123/16–1.4, approved by the Rector " _____ " _____ 201____, and correspondent normative documents.

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1. INTRODUCTION

The Course Training Program of the discipline is developed on the basis of the Syllabus on "Foreign Language" and "Methodical instructions for the development and execution of syllabus and course training program of the discipline", put in action by the order of 16.06.2015. №37 / pp.


The rating assessment system (RAS) is an integral part of Course Training Program and provides for measuring the quality of all types of classroom and self-study work done by students as well as the level of their knowledge and skills by assessing them in values during current, module and semester test with further transfer of these values into the national scale and the ECTS scale.

The rating assessment system (RAS) envisages the use of the following grades: the current module grade, the module test grade, the total module grade, the semester module grade, the examination grade and the total semester grade.

2. SUBJECT CONTENT

2.1. Training schedule of the subject

№	Topic	Academic Hours		
		All	Practicals	Self-Study
1	2	3	4	5
1st Semester				
Module №1 "Fundamentals of Computer Science: Electric Current, Electronic Circuits, Binary Number System. Computer Software: Applications Software: Programming Languages, System Software, Operating Systems, Program Translators"				
1.1.	Fundamentals of Computer Science	3	2	1
1.2.	The History of Computer Science	3	2	1
1.3.	Electric Current	4	2	2
1.4.	Electronic Circuits	4	2	2
1.5.	Binary Number System	3	2	1
1.6.	Computer Software	3	2	1
1.7.	Applications Software	4	2	2
1.8.	Word Processors	3	2	1
1.9.	Database Management	4	2	2
1.10.	Virtual Reality Software and Game Software	3	2	1
1.11.	Computer Graphics Software	4	2	2
1.12.	Programming Languages	3	2	1
1.13.	Classification of Programming Languages	4	2	2
1.14.	System Software	4	2	2
1.15.	Operating Systems	4	2	2
1.16.	Program Translators	4	2	2
1.17.	Module Test №1	3	2	1
Total for Module №1		60	34	26
Total for the 1st Semester		60	34	26
2nd Semester				
Module №2 "Computer Hardware and Architecture. Computer Networks"				
2.1.	Computer Hardware	3	2	1
2.2.	Computer Memory Types	3	2	1
2.3.	The Functions of a Central Processing Unit	4	2	2
2.4.	Input/Output Devices	4	2	2

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2.5.	Communications Networks	3	2	1
2.6.	Computer Architecture	3	2	1
2.7.	Classification of Computer Architecture	4	2	2
2.8.	Computer Architecture and Software Compatibility	3	2	1
2.9.	Criteria of Computer Architecture	4	2	2
2.10.	Computer Networks	3	2	1
2.11.	Types of Computer Networks	4	2	2
2.12.	Network configurations	3	2	1
2.13.	The History of the Internet	4	2	2
2.14.	Functions of the Internet	4	2	2
2.15.	Search engines	4	2	2
2.16.	The Structure of WANs and LANs	4	2	2
2.17.	Module Test №2	3	2	1
Total for Module №2		60	34	26
Total for the 2nd Semester		60	34	26
Total for the Subject		120	68	52

3. BASIC CONCEPTS OF GUIDANCE ON THE SUBJECT

3.1. List of references

Basic literature

3.1.1. Акмалдінова О.М., Бугайов О.Є., Бабій Г.В., Волгіна С.А. Professional English. Computer Technologies. Навчальний посібник для студентів інституту комп'ютерних технологій. К.: НАУ, 2014, - 201с.

3.1.2. Акмалдінова О.М., Аніщенко С.Й., Каширський В.А., Фатєєва С.П. Навчальний посібник для роботи з оригінальною літературою за фахом. К.: НАУ, 2003, - 120с.

3.1.3. Акмалдінова О.М., Виноградова І.В. Hardware Essentials. Навчальний посібник, ч.1. К.: НАУ, 2002, - 124с.

3.1.4. Акмалдінова О.М., Виноградова І.В., Бугайов О.Є. Software Essentials. Навчальний посібник. К.: НАУ, 2004, - 164с

3.1.5. Акмалдінова О.М., Фатєєва С.П., Каширський В.А. Automation in Aviation. Навчальний посібник. К.: НАУ, 2006, - 156с.

3.1.6. Акмалдінова О.М., Фатєєва С.П., Степанковська Л.М. Computer Networks. Практикум. К.: НАУ, 2010, - 56с.

3.1.7. Мислива Т.А., Теремінко Л.Г. Basics of Software Engineering. Практикум для студентів напряму 6.050103 "Програмна інженерія". К.: НВФ "Славутич-Дельфін", 2010, - 128с.


3.1.8. Santiago Rimacha Esteras Professional English. Infotech. English for computer users. Cambridge University Press, 2008, - 168с.

Additional literature

3.1.9. Акмалдінова О.М., Будко Л.В., Старовойтова Л.І. Навчальний посібник для студентів усіх спеціальностей НАУ "High-Style Socio-Political Terminology.– К.: НАУ, 2005, – 228с.

3.1.10. Акмалдінова О.М., Фатєєва С.П. English Grammar Practice. Навчальний посібник. К.: НАУ, 2002, - 148с.

3.1.11. Бугайов О.Є., Бабій Г.В., Волгіна С.А. Computer Networks. Практикум для студентів інституту комп'ютерних технологій. К.: НАУ, 2009, - 40с.

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3.1.12. Верба Г.В., Верба Л.Г. Граматика сучасної англійської мови. Довідник. К.: “Логос”, 2000, - 352с.

3.1.13. Газетні статті з суспільно-політичної тематики.

3.1.14. Журнальні статті з періодичних фахових видань “Better Software”, “Computerworld”.

3.1.15. Степанковська Л.М. Методичні вказівки і завдання з теми “Personal Computer” для студентів I курсу факультету інформатики. К.: НАУ, 2002, - 56с.

3.1.16. Словники за фахом.

3.2. List of basic guidance materials for the subject


№	Name	Code topics for thematic plan	Number
1.	Slides, posters	1.3, 1.4, 2.1, 2.2, 2.5, 2.7, 2.9	7 items
2.	Guidelines for working in a language laboratory	1.2, 1.5, 2.4, 2.8	2 items with their electronic versions
3.	Methodological guide and computer tests	1.1-1.3, 2.1, 2.2	2 items with their electronic versions

4. RATING SYSTEM OF KNOWLEDGE AND SKILLS ASSESSMENT

4.1. Grading of different kinds of academic activities performed by a student

Table 4.1

1 st , 2 nd Semesters			Max. Grade
Module №1, 2			
Material to Study	Kind of Academic Activities	Max. Grade	
Basic Material	Knowledge of Terminology	6	
	Reading and Translation Skills	6	
	Dialogical Speaking Skills	5	
	Monological Speaking Skills	5	
Material for Supplementary Reading	Reading and Translation Skills	6	
	Dialogical Speaking Skills	5	
	Monological Speaking Skills	5	
Socio-Political Material	Knowledge of Terminology	6	
	Reading and Translation Skills	6	
	Dialogical Speaking Skills	5	
	Monological Speaking Skills	5	
<i>For carrying out a module test, a student must receive not less than 36 points</i>			
Module Test		28	
Total for module №1, 2		88	
Semester Examination (Graded Test)			12
Total Semester Grade			100

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4.2. The executed kind of academic work within the given module is set off to the student, if he got a positive Grade on the national scale (Table 4.2).

Table 4.2

Correspondence between the Grades and the National Scale

Grades						National Scale
Knowledge of terminology	Reading and translation	Speaking skills	Monological speaking skills	Listening skills	Module Test	
6	6	5	5	5	26-28	Excellent
5	5	4	4	4	21-25	Good
4	4	3	3	3	17-20	Satisfactory
Under 4	Under 4	Under 3	Under 3	Under 3	Under 17	Bad

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

4.4. The Current Module Grade and the Module Test Grade together make up a Total Module Grade whose correspondence to the National Scale is shown in Table 4.3.

Table 4.3

Correspondence between the Total Module Grades and the National Scale

Module №1-2	National Scale
79-88	Excellent
66-78	Good
53-65	Satisfactory
under 53	Bad

4.5. The Total Semester Module Grade is determined in values and in national scale grades as the sum of the Total Module Grades obtained after studying the material of all the modules within a semester.

Table 4.4

Correspondence between the Semester Module Grades and the National Scale

Semester 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 Grades	Examination Grades	
12	11-12	excellent
10	9-10	good
8	7-8	satisfactory
-	Under 7	bad

4.6. The Semester Module Grade and the Examination Grade 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	Good	B	Very Good (performance above the average standard with 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	Bad	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 values, National Scale grades, and ECTS Scale 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 grade in a discipline taught during a few semesters is determined as the average of the total semester grades in values (for this discipline – for the first and second semesters) with its further transfer into the national scale and the ECTS scale. The total grade in a discipline is entered into the Appendix to the diploma.



(Ф 03.02 – 04)

АРКУШ РЕЄСТРАЦІЇ РЕВІЗІЇ

№ пор.	Прізвище ім'я по-батькові	Дата ревізії	Підпис	Висновок щодо адекватності

(Ф 03.02 – 03)

АРКУШ ОБЛІКУ ЗМІН

№ зміни	№ листа (сторінки)				Підпис особи, яка внесла	Дата внесення зміни	Дата введення зміни
	Зміненого	Заміненого	Нового	Анульованого			

(Ф 03.02 – 32)

УЗГОДЖЕННЯ ЗМІН

	Підпис	Ініціали, прізвище	Посада	Дата
Розробник				
Узгоджено				
Узгоджено				
Узгоджено				