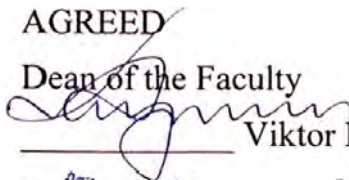


MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
NATIONAL AVIATION UNIVERSITY

Faculty of Architecture, Civil Engineering and Design  
Computer Technologies of Airport Construction and Reconstruction  
Department

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Dean of the Faculty  
  
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« 03 » 10 2022

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« 01 » 11 2022



Quality Management System

**COURSE TRAINING PROGRAM**  
on  
**"Informatics (General Course)"**

Educational-Professional Program: «Industrial and Civil Engineering»

Field of study: 19 «Architecture and Construction»  
Specialty: 192 «Building and Civil Engineering»

Form of training	Sem.	Total (hours/ ECTS credits))	Lec.	Prac.	Lab.	Self-study	Homeworks control works	CP/ TP	Form of control
Full-time	1	180/6	34	-	51	95	CGW-1	-	Examination 1 <sup>st</sup> semester
Part-time	-	-	-	-	-	-	-	-	-

Index: CB-5-192-1/21-2.1.4


**QMS NAU CTP 10.01.04-01-2022**



The Course Training Program on “Informatics (General Course)” is developed on the basis of the Educational-Professional Program “Industrial and Civil Engineering”, Bachelor Curriculum and Extended Curriculum № CB-5-192-1/21, № ECB-5-192-1/21 for training higher education seekers of the Bachelor degree of specialty 192 "Building and Civil Engineering" and corresponding normative documents.

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**Master copy**



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## INTRODUCTION

The Course Training Program of the academic discipline " Informatics (General Course)" was developed on the basis of the "Methodological recommendations for the development and execution of the syllabus of educational discipline of full-time and part-time forms of training", approved by rector's order No. 249/roz. of 29.04.2021 and relevant regulatory documents.

### 1. EXPLANATORY NOTE

#### 1.1. Role, goal and objectives of the academic discipline

**The role** of the discipline is the theoretical and practical basis of the set of knowledge and skills that form the profile of a specialist in the field of construction.

**The goal** of the academic discipline is to acquire knowledge and skills in using a personal computer, the basic principles and methods of computer modeling in engineering practice, in solving technical problems related to their implementation on a computer, as well as in mastering the skills of working with popular software products for creating documents and computer graphics tools.

**The objectives** of the academic discipline are:

- study of theoretical and practical methods and skills of working with software environments of various purposes (systemic, specialized and applied).
- studying the possibility of using modern computer technology with its virtually unlimited technical capabilities and perfect service.

#### 1.2. Educational outcomes of the academic discipline


PLO1 – Apply basic theories, methods, and principles of mathematical, natural, social, humanistic, and economic sciences, modern models, methods, and decision-making support software to solve complex construction and civil engineering problems. PLO3 – Present the results of one's own work and argue one's position on professional issues to specialists and non-specialists, communicating freely in the state and foreign languages. PLO6 – Apply modern information technologies to solve engineering and management problems of construction and civil engineering. PLO7 – Perform data collection, interpretation and application, including through the search, processing and analysis of information from various sources.

#### 1.3. Competencies obtained through the academic discipline

According to the content of the discipline, the student of higher education must be able to use modern computers, apply the basic capabilities of information processing with the help of computers, use the features of computer technologies in construction, create project documentation and the basics of computer modeling using BIM technologies.

General competencies that the academic discipline makes possible to acquire: GC1 – Ability to think abstractly, analyze and synthesize. GC2 – Knowledge and understanding of the subject area and professional activity. GC4 – Ability to communicate in a foreign language. GC5 – Ability to use information and communication technologies. GC6 – Ability to independently acquire knowledge by searching, processing and analyzing information from various sources. GC7 – Interpersonal skills.

Professional competencies that the academic discipline makes possible to acquire: PC1 – Ability to use conceptual scientific and practical knowledge of mathematics, chemistry and physics to solve complex practical problems in construction and civil engineering. PC4 – Ability to choose and use appropriate equipment, materials, tools and methods for designing and implementing technological processes of construction production. PC5 – Ability to use

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computer-aided design soft-ware and its specialized application for solving engineering problems of construction and civil engineering. PC6 – Ability to perform engineering activities in the field of construction, compilation and use of technical documentation. PC11 – Be able to use design methods of specialized software and computer systems and systems of automated design and calculation of structural elements of buildings and structures of industrial and civil objects of air transport and other industries.

#### 1.4. Interdisciplinary links

The discipline simultaneously complements the knowledge of such disciplines as: "Higher Mathematics", "Physics", is the basis for the following disciplines: "Introduction to Computer-Aided Design", "Fundamentals of Programming", "Fundamentals of Computer Modeling" and others.

## 2. PROGRAM OF THE ACADEMIC DISCIPLINE

### 2.1. Content of the academic discipline

The educational material of the discipline is structured on a modular basis and consists of two educational modules, namely:

- **educational module 1** "Basic characteristics and structure of personal computers. PC software. Computer networks";
- **educational module 2** "Information modeling of buildings", each of which is a logically complete, relatively independent, integral part of the discipline, mastering which involves a modular test and results analysis.

### 2.2. Module structure and integrated requirements for each module

#### Module 1 “Basic characteristics and structure of personal computers. PC software. Computer networks”

##### Integrated requirements for module 1:

**Know:** components of a personal computer and its main capabilities, PC software and hardware.

**Be able to:** use modern applied computer technologies, software, network and mobile technologies to perform professional tasks, search for information in various sources to solve educational and professional tasks.

**Topic 1.1. Introduction. Informatics and information technologies. Electronic computing machines (EC). Personal computers. Purpose, design and characteristics of PC devices.** The concept of informatics as a scientific discipline. Connection with information theory, artificial intelligence (solving problems associated with intelligent human actions), electronics (technical base of informatics). The main means of information processing. The concept of informatization of modern society. The main achievements in the field of creation of computing equipment, software products and information technologies. The concept of personal computer hardware. Features of device characteristics: system unit, power supply unit, microprocessor, motherboard, RAM, drives, adapters.



**Topic 1.2. Classification of software: system and application software, their differences and functions. Driver programs. Programs of auxiliary purpose. Characteristics of the main types of operating systems.** Structure of the software. Classification of service programs. Classification of application software. Characteristics of the main operating systems. Purpose, functions and architecture of OS construction. MS-DOS, WINDOWS, UNIX, LINUX, etc. Their classes and differences. Shell programs for the OS.

**Topic 1.3. Windows operating system. History of Windows.** An overview of the history of the Windows OS. Purpose and functions of the Windows OS.

**Topic 1.4. File system and structure. Basic principles of working with the system. Introduction to MICROSOFT OFFICE. MICROSOFT WORD. MS Excel spreadsheets. General concepts of databases.** Work with files and folders. Basic functions of folders and files. Characteristics and user interface of the Word text editor. Basic techniques for creating documents in the Word text editor. Sequence of actions. Work with styles. Creation of text documents. Formula editor. Insertion of special symbols, diagrams, pictures. Creating simple graphic images. Document formats, templates and styles. Modes of working with documents.

**Topic 1.5. Basic operations in the Windows environment. Popular utility sets. Antivirus programs. Programs for working with archives. Application software packages.** Application of antivirus programs in the Windows environment is their main purpose. Functions and capabilities of application support packages.

**Topic 1.6. Concept of information and data. Structural unity of information and software. Building Information Modeling (BIM).** Information support of computer technologies and characteristics of its components. Information support components. Modern directions of development and features of the functioning of design systems. Building information modeling (BIM).

**Topic 1.7. Computer networks. General characteristics of computer networks (CN).** Definition and classification of CN. by the size of the covered territory: by the type of functional interaction, by the type of network topology. General characteristics of computer networks (CN). Definition and classification of CN.

**Topic 1.8. CN architecture: communication network, subscriber subsystem, network services.** Reference information, electronic data exchange, file management, e-mail, revoked access, network administration. OSI standard, protocol system. CS topology: ring, star, tree. Scales of the network (local - LVS, regional - PBC, global). Characteristics of the switching network. Technical means of switching: transmission medium, means of connections. Server platforms. Networks with data routing, switching methods: switching channels, messages, packets. Digital networks with integrated service.

**Topic 1.9. Overview of network equipment. Peripheral equipment of the communication line. Intermediate network equipment. Switchboard. Router. Difference between routers and bridges. Gateways Cable systems. Wireless technologies.** Management of computing resources, processes, priority multitasking, multiprocessor processing in the operating system. File system, logical and physical organization of data, media preparation, work with files and folders (directories). File and folder access rights. Setup and configuration of the operating system, system registry. Graphical user interface. Basic operations in the Windows environment. Control elements, window types, toolbars, main and context-sensitive menu commands. Software interface of applications. Drivers of external devices and computer memory.



**Topic 1.10. Requirements for networks. Global network Internet (Internet). WWW.** Construction concepts (addressing, connection methods, protocols). Internet information technologies: e-mail, WWW, revoked user access, BBS bulletin board, teleconferencing, IP telephony. Programs for searching and accessing information resources (browsers, information and search systems). World network Internet. Addresses of sites and pages on the Internet. Searching for information on the Internet. E-mail is your e-mail box. Areas of application of the Internet (mass media, infobusiness, commerce, communications, entertainment). HTML as the basis of publications on the Web. Global computer networks in financial and economic activity.

**Topic 1.11. Technology of solving problems with the help of computers. Modern programming languages.** Formulation of the problem. Types of computational processes. The concept of an algorithm. Requirements for the algorithm. Ways of presenting the algorithm. Rules for drawing up algorithm schemes. Concepts and types of cycles. Examples of simple algorithm schemes using the example of a mathematical system of inequalities. Technology of solving problems with the help of computers. Formulation of the problem. Their main differences. The concept of a translator. The concept of an algorithm. Requirements for the algorithm. Ways of presenting the algorithm. Rules for drawing up algorithm schemes. Examples of simple algorithm schemes. Fundamentals of programming. Text recognition programs. Text translation programs.

## **Module 2 “Information modeling of buildings”**

### **Integrated requirements for module 2:**

**To know:** to know the basic functionality of programs for automated design, the structure and principles of the organization of the design process.

**Be able to:** use information and communication technologies.

**Topic 2.1. Computer-aided design (CAD) AutoCAD. AutoCAD preferences.** Computer-aided design (CAD). CAD classification. AutoCAD. Drawings in AutoCAD. Drawing template.

**Topic 2.2. Modify tools in AutoCAD.** Modify commands. Array. Drawing reference. Raster image reference.

**Topic 2.3. Layers in AutoCAD.** Layers. Layers characteristics. Creation of layers. Several layers creation. Linetypes. Geometrical primitives.

**Topic 2.4. Dimensions. New dimension style.** Types of dimensions in AutoCAD. New dimension style creation.

**Topic 2.5. Hatch.** Hatch creation. Technical project. Hatch gradient.

**Topic 2.6. Creating and editing text.** Single line text. Multiline text. Text styles.



### 2.3. Thematic plan.

№	Topic	Academic hours							
		Full-time study				Part-time study			
		Total	Lectures	Lab. classes	Self-study	Total	Lectures	Lab. classes	Self-study
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>Module №1 “Basic characteristics and structure of personal computers. PC software. Computer networks”</b>									
1.1	Introduction. Informatics and information technologies. Electronic computing machines (EC). Personal computers. Purpose, design and characteristics of PC devices	<b>1 semester</b>				<b>1 semester</b>			
		5	2	-	3	-	-	-	-
1.2	Introduction. Informatics and information technologies. Electronic computing machines (EC). Personal computers. Features of their composition, design and configuration	4	-	2	2	-	-	-	-
1.3	Classification of software: system and application software, their differences and functions. Drivers. Programs of auxiliary purpose. Characteristics of the main types of operating systems	5	2	-	3	-	-	-	-
1.4	Search and replace text. Autocorrect and autotext. Preparation and output of the document for printing	4	-	2	2	-	-	-	-
1.5	Creating tables in the Word editor. Creation of text documents	4	-	2	2	-	-	-	-
1.6	Windows operating system. History of Windows	5	2	-	3	-	-	-	-
1.7	Formula editor. Insertion of special symbols, diagrams	4	-	2	2	-	-	-	-
1.8	File system and structure. Basic principles of working with the system. Introduction to MICROSOFT OFFICE. MICROSOFT WORD. MS Excel spreadsheets. General concepts of databases	5	2	-	3	-	-	-	-
1.9	Insertion of special symbols, pictures. Creating labels on graphic objects in the text editor MS Word	4	-	2	2	-	-	-	-
1.10	MS EXCEL spreadsheets. MS EXCEL	4	-	2	2	-	-	-	-





1	2	3	4	5	6	7	8	9	10
	document structure. Contents of table elements. Selection of information on the worksheet								
1.11	Basic operations in the Windows environment. Popular utility sets. Antivirus programs. Programs for working with archives. Application software packages. Application of antivirus programs	5	2	-	3	-	-	-	-
1.12	Creating formulas, use of functions in MS EXCEL.	4	-	2	2	-	-	-	-
1.13	Concept of information and data. Structural unity of information and software. Building Information Modeling (BIM)	5	2	-	3	-	-	-	-
1.14	MS EXCEL spreadsheets. Creating a diagram in MS EXCEL	4	-	2	2	-	-	-	-
1.15	Graphing functions with MS EXCEL	4	-	2	2	-	-	-	-
1.16	Computer networks. General characteristics of computer networks (CN)	5	2	-	3	-	-	-	-
1.17	Construction of graphs of functions in three-dimensional space using MS EXCEL	4	-	2	2	-	-	-	-
1.18	CN architecture: communication network, subscriber subsystem, network services	5	2	-	3	-	-	-	-
1.19	Solving systems of linear equations using MS EXCEL, working with matrices	4	-	2	2	-	-	-	-
1.20	Solving nonlinear equations and systems using MS EXCEL	4	-	2	2	-	-	-	-
1.21	Overview of network equipment. Peripheral equipment of the communication line. Intermediate network equipment. Switchboard. Router. Difference between routers and bridges. Gateways Cable systems. Wireless technologies	5	2	-	3	-	-	-	-
1.22	Creating presentations using POWER POINT. Getting to know presentations.	4	-	2	2	-	-	-	-
1.23	Requirements for networks. Global network Internet (Internet). WWW	4	2		2	-	-	-	-
1.24	Creating presentations using POWERPOINT. Control of objects on	4	-	2	2	-	-	-	-




1	2	3	4	5	6	7	8	9	10
	the slide								
1.25	Creating presentations using POWERPOINT. Using animation when placing an object on a slide	4	-	2	2	-	-	-	-
1.26	Technology of solving problems with the help of computers. Modern programming languages	4	2		2	-	-	-	-
1.27	Creation and processing of graphic information in the Visio environment. Basic methods of work. Creating flowcharts	4	-	2	2	-	-	-	-
1.28	<b>Module Test №1</b>	4	-	2	2	-	-	-	-
	<b>Total for Module №1</b>	<b>121</b>	<b>22</b>	<b>34</b>	<b>65</b>				
<b>Module №2 “Information modeling of buildings”</b>									
2.1.	Computer-aided design (CAD) AutoCAD. AutoCAD preferences	4	2	-	2	-	-	-	-
2.2.	Operations with drawing files. Drawing templates. Workspace settings	4	-	2	2	-	-	-	-
2.3.	Drawing modes. Functions of drawing modes. Setting drawing modes	4	-	2	2	-	-	-	-
2.4.	Modify tools in AutoCAD	4	2	-	2	-	-	-	-
2.5.	Insertion of finished drawings or their fragments. Inserting pictures	4	-	2	2	-	-	-	-
2.6.	Layers in AutoCAD	4	2	-	2	-	-	-	-
2.7.	Create multiple layers. Assigning an object's line type	4	-	2	2	-	-	-	-
2.8.	Construction of simple primitives	4	-	2	2	-	-	-	-
2.9.	Dimensions. New dimension style	4	2	-	2	-	-	-	-
2.10	Applying dimensions to drawings	4	-	2	2	-	-	-	-
2.11	Hatch	4	2		2	-	-	-	-
2.12	Implementation of the technical project	4	-	2	2	-	-	-	-
2.13	Creating and editing text	3	-	2	1	-	-	-	-
2.14	Text styles	4	2	-	1				
2.15	Module Test №2	2	-	1	1	-	-	-	-
2.16	<i>Calculation and Graphical work</i>	10	-	-	10	-	-	-	-
	<b>Total for Module №2</b>	<b>59</b>	<b>12</b>	<b>17</b>	<b>30</b>	-	-	-	-
	<b>Total For Academic Discipline</b>	<b>180</b>	<b>34</b>	<b>51</b>	<b>95</b>	-	-	-	-

#### 2.4. Task for calculation-graphical work

Calculation-graphical work in the discipline is performed in the first semester and is a component of module 2 “Information modeling of buildings”.

Performance of calculation-graphic work is an important stage in preparation for the

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coursework and bachelor qualification paper in «Building and civil engineering».

The specific purpose of calculation-graphical work is to consolidate the theoretical foundations and in-depth practical skills of working with the AutoCAD program.

The task for performing calculation-graphical work is carried out by the student individually in accordance with the methodical recommendations developed by the leading teachers of the department.

The time required to complete calculation-graphical work is 10 hours of independent work.

### 2.5. List of questions for exam and final test

The list of questions and the tasks to prepare for the exam are developed by the teacher of the department in accordance with the work program and communicated to the students.

## 3. TRAINING MATERIALS FOR THE DISCIPLINE

### 3.1. Teaching methods

When studying the discipline, the following teaching methods are used:

- explanatory-illustrative method;
- method of problem statement;
- reproductive method.

The implementation of these methods is carried out during lectures, demonstrations, independent work, work with educational literature.

### 3.2. Recommended literature (basic and additional literature)

#### Basic literature

3.2.1. Інформатика. Комп'ютерна техніка. Комп'ютерні технології : підручник / Баженов В.А., Венгерський П.С., Гарвона В.С. та ін. / Наук. ред. Г.А.Шинкаренко, О.В. Шишов. – К.: Каравела, 2019. – 592 с.

3.2.2. Козловський, А. В. Комп'ютерна техніка та інформаційні технології [Текст] : навчальний посібник для студ. вищ. навч. закладів: рек. МОНУ / А.В. Козловський, Ю. М. Паночишин, Б. В. Погріщук. - 2-ге вид., стереотип. – К. : Знання, 2012. – 463 с.

3.2.3. Ярکا У.Б., Білушак Т.М. Інформатика та комп'ютерна техніка. Частина 1 : навчальний посібник. – Львів : Видавництво Львівська політехніка, 2015.- 200с.

3.2.4. Войтюшенко, Н. М. Інформатика і комп'ютерна техніка : навч. посіб. / Н. М. Войтюшенко. А. І. Остапець. – К. : ЦНЛ, 2017. – 564 с.

3.2.5. Інформатика. Комп'ютерна техніка. Комп'ютерні технології. Підручник. За ред О.І. Пушкаря. К.: Академія, 2002. – 702с.

3.2.6. Макарова М.В. Інформатика та комп'ютерна техніка: Навчальний посібник / Макарова М.В.- Суми: ВТД "Університетська книга", 2003. – 642с.

3.2.7. Ярмуш О. В., Редько М. М. Інформатика і комп'ютерна техніка: навчальний посібник. – Київ: Вища освіта, 2006. – 359 с.

3.2.8. Бакушевич Я. М., Капаціла Ю. Б. Інформатика та комп'ютерна техніка: навчальний посібник. – Львів: Магнолія 2006, 2009. – 312 с.

3.2.9. Корчук О.Ю. Основи інформатики та обчислювальної техніки: навчальний посібник/ Корчук О.Ю., Косяк В. І. – Київ: НАУ, 2018. – 160 с.

3.2.10. Маценко В. Г. Інформатика та обчислювальна техніка: навчальний посібник/ Маценко В. Г. – Чернівці: Чернівецький національний університет, 2012. – 163 с.



### Additional literature

3.2.11. AutoCAD. Learn about AutoCAD. An Introduction to AutoCAD for Beginners, 2020, 92 p.

3.2.12. Боико А. П. Комп'ютерне моделювання в середовищі AUTOCAD. Частина 1. Геометричне та проєкційне креслення : навч. посіб. / А. П. Бойко. – Миколаїв : Вид-во ЧНУ ім. Петра Могили, 2017. – 116 с.

### 3.3. Internet information resources

3.2.5. <http://www.lib.nau.edu.ua/main/>

3.2.6. <https://www.microsoft.com/uk-ua>


## 4. RATING SYSTEM OF KNOWLEDGE AND SKILLS ASSESSMENT

4.1. Evaluation of certain types of work done by students of the points made in accordance with Table 4.1.

Table 4.1.

Kind of Academic Activities	Maximum Grade		Kind of Academic Activities	Maximum Grade	
	Full-time study	Part-time study		Full-time study	Part-time study
semester 1					
Module 1 “Basic characteristics and structure of personal computers. PC software. Computer networks”			Module 2 “Information modeling of buildings”		
Carrying out and defending the laboratory classes	32	-	Carrying out and Defending the laboratories	16	-
	-	-	Carrying out the calculation and graphical work	12	-
<i>For admission to complete module test №1, student must receive not less then</i>	19	-	<i>For admission to complete module test №2, student must receive not less then</i>	10	-
Performing of the module test №1	10	-	Performing of the module test №2	10	-
<b>Total for module №1</b>	<b>42</b>	<b>-</b>	<b>Total for module №2</b>	<b>38</b>	<b>-</b>
<b>Total for modules №1, №2</b>				<b>80</b>	<b>-</b>
<b>Semester examination</b>				<b>20</b>	<b>-</b>
<b>Total for academic discipline</b>				<b>100</b>	

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

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4.3. The sum of the Current Semester Module Rating and Test Module Rating constitute the Total Module Rating which is entered in a module control register as a Rating Score and a National Scale Rating.

4.4. The Semester Module Grade and the Examination Grade together make up a Total Semester Grade which is calculated according to the National Scale and the ECTS Scale.

4.5. The Total Semester Grade in points, the National Scale and the ECTS Scale is entered in the test report, study card and individual curriculum of the student (record book), for example, as follows: **92/Excellent/A**, **87/Good/B**, **79/Good/C**, **68/Satisfactory/D**, **65/Satisfactory/E**, etc.

4.6. The Total Grade of the subject is equal the Total Semester Grade. The indicated Total Semester Grade of the subject is added to the Diploma Supplement.



(Ф 03.02 – 01)

### АРКУШ ПОШИРЕННЯ ДОКУМЕНТА

№ прим.	Куди передано (підрозділ)	Дата видачі	П.І.Б. отримувача	Підпис отримувача	Примітки

(Ф 03.02 – 02)

### АРКУШ ОЗНАЙОМЛЕННЯ З ДОКУМЕНТОМ

№ пор.	Прізвище, ім'я, по батькові	Підпис ознайомленої особи	Дата ознайомлення	Примітки

(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 зміну	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				