

# **"Computer architecture"**

(name of the discipline)

## **OUTLINE**

**TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION**  
**Specialty 1-53 01 02 Automated Systems of Information Processing**

	<b>Form of training</b>	
	<b>Full-time</b>	<b>Correspondence</b>
<b>Course</b>	<b>3</b>	<b>3</b>
<b>Semester</b>	<b>6</b>	<b>5</b>
<b>Lectures, hours</b>	<b>32</b>	<b>8</b>
<b>Laboratory hours</b>	<b>32</b>	<b>8</b>
<b>Auditory control work</b>		<b>6</b>
<b>Test, semester</b>	<b>6</b>	<b>5</b>
<b>Classroom hours in the educational discipline</b>	<b>64</b>	<b>16</b>
<b>Independent work, hours</b>	<b>44</b>	<b>92</b>
<b>Total hours / credit units</b>	<b>108/3</b>	

### **1 Summary of the contents of the study discipline**

Studying: the structure of a computer, the organization of the processor unit, computer arithmetic, connection of external devices to the computer, computer memory management, parsing tasks.

### **2. Course objectives**

As a result of studying the discipline the student must

#### **know:**

- the structure of a computer, the purpose and principles of operation of the main blocks;
- organization of machine arithmetic;
- memory management.

#### **be able to:**

- input and output information into the computer;
- manage the process of creating programs and their execution;
- manage the state of the process, connect new devices and units to the computer.

#### **to master:**

- modern programming tools;
- designing of computer systems.

### **3. Formable competencies**

AC-11 Master the basic methods of obtaining, storing and processing information using computer technology, PC-15 Identify current problems in the development and improvement of computer technology.

### **4.Requirements and forms of current and interim assessment.**

FEM, TA, PCU, credit.