



## **SYLLABUS OF THE COURSE**

### **"Accounting Information Systems and Logistics"**

***Educational program component – elective (4 credits)***

<b>Educational and professional program</b>	Information Technology and Project Management,
<b>Major</b>	122 – Computer Science,
<b>Field of study</b>	12 Information Technology
<b>Degree</b>	first (bachelor)
<b>Language of instruction</b>	English
<b>Teacher profile</b>	Hotynchan T.I., <a href="https://mathmod.chnu.edu.ua/pro-nas/spivrobitnyky/hotynchan-tetiana-ivanivna/">https://mathmod.chnu.edu.ua/pro-nas/spivrobitnyky/hotynchan-tetiana-ivanivna/</a>
<b>Contact phone number</b>	+380372584825
<b>E-mail:</b>	<a href="mailto:t.hotynchan@chnu.edu.ua">t.hotynchan@chnu.edu.ua</a>
<b>Course page in Moodle</b>	<a href="https://moodle.chnu.edu.ua/course/view.php?id=1402">https://moodle.chnu.edu.ua/course/view.php?id=1402</a>
<b>Consultations</b>	according to the approved schedule

### **SUMMARY OF THE ACADEMIC DISCIPLINE**

**1. Abstract of the discipline (purpose of the academic discipline):** learning to work in the BAF (Business Automation Framework) framework to create BAS (Business Automation Software), which are intended for accounting systems for conducting business activities of business structures. The course studies the tools of the embedded programming language and the technology of creating metadata objects of the accounting information system, as well as methods of administering the created systems.

**2. The purpose of the course:** to teach students the basics of administering and developing BAS applications in the BAF framework.

**3. Prerequisite:** Programming, Databases of information systems.

**Postrequisites:** Practical training.

**4. Learning outcomes:**

**knowledge:** the concept, structure and functionality of BAF, the purpose and methods of creating metadata objects, embedded programming language objects, data manipulation methods; the purpose and main tasks performed in BAS Small Business.

**skills:** write a technical task based on the task statement; create metadata objects; work with the syntax assistant when writing modules, use object creation constructors and code generators; administer and develop BAS.

## EDUCATIONAL CONTENT OF THE EDUCATIONAL COMPONENT

MODULE 1. ACCOUNTING INFORMATION SYSTEMS. BAF SYSTEM CONCEPT	
Topic 1	<i>General information about BAF. Applied objects</i>
Topic 2	<i>Administration basics of system</i>
Topic 3	<i>Tasks of conducting business activities of a small business</i>
MODULE 2. MODULE 2. BAF EMBEDDED PROGRAMMING LANGUAGE. WORKING WITH METADATA OBJECTS	
Topic 4	<i>General characteristics of an embedded programming language</i>
Topic 5	<i>Modules. Data types. Operators</i>
Topic 6	<i>Working with application objects. Layouts. Queries. Forms</i>

## FORMS, METHODS AND EDUCATIONAL TECHNOLOGIES OF TEACHING

- by the source of transmission and perception of educational information by students:
  - o verbal (lecture, explanation, conversation, instruction);
  - o visual (illustration, demonstration);
  - o practical (exercises, projects);
- by the logic of transmission and perception of educational information by students:
  - o informational-receptive;
  - o reproductive;
  - o problem-based;
  - o partially-search (heuristic);
- by stimulation of educational and cognitive activity:
  - o methods of stimulating cognitive needs and interests;
  - o methods of stimulating duty and responsibility.

## FORMS AND METHODS OF CONTROL AND ASSESSING

**Current control:** *laboratory work, team projects.*

**Final control:** *test.*

## CRITERIA FOR ASSESSING LEARNING OUTCOMES

The assessment of program learning outcomes of education seekers is carried out according to the European Credit Transfer System (ECTS) scale.

The system of assessing the level of educational achievements is based on the principles of ECTS and is cumulative. Knowledge assessment is carried out on a 100-point scale. The results of work during the academic semester are assessed during the current and module control in the range from 0 to 60 points in total, and the results of the final control (credit) - from 0 to 40 points.

During the semester, students perform 5 laboratory works, each of which is a continuation of the previous one. As a result, students perform a team project. Laboratory works are assessed with points, respectively: 10, 10, 10, 15 and 15 for the full completion of tasks.

Performing laboratory tasks involves independent study of additional sources of information and homework on tasks started in class. For minor errors in completing

tasks, 1-2 points are deducted, and for significant errors, unjustified application of methods or failure to complete tasks - 3-5 points. In the case of completing certified courses on educational platforms and timely submission of certificates, a certificate may be transferred instead of laboratory work on the relevant topic. In addition, up to 10 points can be obtained for completing additional tasks.

The final control in the discipline is a test in the form of a test in the moodle system. The test version contains 40 questions with one correct answer, each of which is estimated at 1 point.

The final grade is given based on the results of the sum of points scored for content modules during the semester and the final module (test).

### **ACADEMIC INTEGRITY POLICY**

- ✓ Compliance with the policy on academic integrity by participants in the educational process when studying an academic discipline is regulated by the following documents:
- ✓ «Етичний кодекс Чернівецького національного університету імені Юрія Федьковича» <https://www.chnu.edu.ua/media/jxdfs0zb/etychnyi-kodeks-chernivets-koho-natsionalnoho-universytetu.pdf>
- ✓ «Положенням про виявлення та запобігання академічного плагіату у Чернівецькому національному університету імені Юрія Федьковича» <https://www.chnu.edu.ua/media/n5nbzwgb/polozhennia-chnu-pro-plahi-at-2023plusdodatky-31102023.pdf>

### **INFORMATION RESOURCES**

1. Documentation for working with BAS. [Electronic resource] – Resource access mode: <https://portfel.ua/statti-po-roboti-z-programami-bas/>
2. Business Automation Framework (BAF) Platform. [Electronic resource] – Resource access mode: <https://ingenium.ua/platforma-baf>
3. How to install BAS. [Electronic resource] – Resource access mode: <https://portfel.ua/yak-vstanoviti-bas/>
4. BAS Small business. [Electronic resource] – Resource access mode: <https://sys2biz.com.ua/modules/bas-malyj-biznes/>
5. BAS. [Electronic resource] – Resource access mode: <https://www.bas-soft.eu/soft/>
6. BAS Demos. [Electronic resource] – Resource access mode: <https://www.netsoft.com.ua/demo.html>
7. Link to the electronic course. [Electronic resource] – Resource access mode: <https://moodle.chnu.edu.ua/course/view.php?id=1402>

*Detailed information on studying the course "Name of academic discipline" is provided in the work program of the academic discipline.*

*Computer Science: <https://mathmod.chnu.edu.ua/media/1dnisx5j/122-iso.pdf>*