The syllabus of the discipline

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| № | Field name | Detailed content, comments |
|  | Name of the faculty | Faculty of Computer Science |
|  | The level of higher education | Bachelor's |
|  | Code and title of specialty | 122 Computer Science |
|  | The type and title of the educational program | EPP "Management information systems" |
|  | Code and title of the discipline | \_\_\_ТООP\_\_\_ Object Oriented Programming Technologies |
|  | Number of ECTS credits | 5 |
|  | The structure of the course (distribution by type and hours of training) | 30 h. – 15 lectures, 30 h. – 7 practical works, 12 h. – 6 consultations, 78 h. – independent work (including 20 h. - course work), semester control: combined exam |
|  | Schedule (terms) of study of the subject | First course, 2nd semester |
|  | Prerequisites for learning the discipline | Previously, the disciplines "Theory of Algorithms", "Discrete Mathematics", "Algorithmization and Programming" should be studied. |
|  | Abstract (content) of the discipline | Mandatory discipline of professional and practical training, contains content modules:  1. OOP principles. Classes, objects, encapsulation.  2. Inheritance and dynamic polymorphism.  3. Development of object-oriented software applications. |
|  | Competencies, knowledge, skills, understanding that a higher education acquirer has in the learning process | Knowledge of general principles of object-oriented programming, implementation of object model in C ++ programming language; possession of generalized programming tools and a standard template library. |
|  | Learning outcomes of a Higher Education applicant | Creativity, ability to object-oriented thinking, knowledge of object-oriented programming languages ​​and the ability to apply an object-oriented approach when designing complex software systems. Ability to develop object-oriented graphics applications. |
|  | Assessment system in accordance with each task for taking tests/exams | 1. Work out and defend practical classes.  2. Pass 4 computer tests (10 questions on the analysis of program code for 12 minutes)  3. Perform Individual homework  4. Perform and defend course work (60-100 points)  5. Get at least 60 points per semester.  6. Pass the combined exam.  Semester grade : (3-5)х4 tests +(7-12)х6 practical works +(6-8)х ividual homework =(60-100) points.  Exam score  =(60-100) points.  The exam is combined in the form of a computer. test and practical task (test of 20 tasks, duration of 30 minutes, practical task - coding of a simple object-oriented application).  The final score  is calculated by the formula: . |
|  | The quality of the educational process | Adherence to the principles of academic integrity (<http://lib.nure.ua/plagiat>). Update of the working program of the discipline - 2019. Practical classes are performed in the laboratory of the department, software – Visual Studio 2019. |
|  | Methodological support | 1. Complex of educational and methodical support of educational discipline "Technologies of object-oriented programming" of preparation of the bachelor of a specialty 122 "Computer sciences", educational program "Information control systems" [Electronic resource] / KNURE; developed. T.G. Bilova. - Kharkiv, 2019. - 85 p.<http://catalogue.nure.ua/knmz>. |
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