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| Discipline „computer electronics”, code: 05 |
| Annotation: The aim of the course is to teach students in Software and Internet Technologies to electronics used in computers but not directly related to the computing process, such as power supplies, indicators, OpAmps. The subject creates knowledge and skills in designing simple electronic circuits, connecting and testing them. Main measuring instruments are also studied - a multimeter and an oscilloscope. After each exercise, students prepare a report. |
| Main issues of the syllabus content:* Electronic components
* Semiconductor diodes. Characteristics
* Bipolar transistors. Static characteristics
* MOSFETs
* Measurements in electronics
* Characteristics of signals in digital and pulse circuits
* Measurement of static and dynamic characteristics
* Design of elementary circuit and circuits
* Linear pulse circuits
* Diode limiters
* Transistor switch with bipolar transistors
* Power supply units
* Transformers
* Rectifiers
* Stabilizers. Impulse stabilizers
* Parameters of specialized power supplies
* Operational amplifiers
* Basic information about OA
* Basic parameters of the OA without feedback
* Basic circuits of OA
* Sensors
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