Electronics

COURSE SYLLABUS ABSTRACT

6-05-0716-03 Information and measuring devices and systems
(code and name of specialties)
Information systems and technologies for non-destructive testing and diagnostics
(profile)

	Form of higher education
	Full-time (day)
Year	2,3
Semester	4,5
Lectures, hours	68
	68
Laboratory, hours	68
	4,5
Exam, semester	4,5
Total hours in class	204
Independent work, hours	120
	324/9

1. Summary of the academic discipline.
The academic discipline studies semiconductor electronic elements, circuit design of analog and digital electronic devices, methods of their calculation and modeling of operation in various modes.

2. Learning outcomes. As a result of mastering the academic discipline, the student should

know:

- the basic principles of operation of typical circuits and units of analog and digital devices;
- the rules for developing electrical circuits of analog and digital devices;

be able to:

- develop typical circuits of analog and digital devices;
- calculate the parameters of elements of analog and digital devices;

have the skill:

- design typical circuits and units of analog and digital devices;
- simulate the operation of typical units of analog and digital devices.

3. Formed competencies:

Be able to calculate typical circuits of analog and digital devices.

4. The form of the intermediate certification: examination (oral and written form). In order to be admitted to the exam, the student must complete and defend laboratory work, as well as individual assignments, in accordance with the curriculum.