

ELECTRICAL ENGINEERING And ELECTRONICS
ANNOTATION
To TRAINING PROGRAM INSTITUTIONS HIGHER EDUCATION

Specialty 1-36 01 03 "Technological equipment of machine-building production"

	The form receiving higher education
	full-time (daily)
Well	2
Semester	four
Lectures, hours	fifty
Practical (seminar) lessons, watch	16
Laboratory lessons, watch	16
credit differentiated, semester	four
classroom hours on educational discipline	82
Independent Work, watch	38
Total hours on educational discipline / test units	120/3

1. Brief content educational disciplines. Discipline applies to module "Electrical Engineering and electronics" and contains two block: "Electrical Engineering" and "Electronics". The task of the discipline is the formation of a concept of the principles of operation and design of electronic devices, an experimental study of their work in various modes on the laboratory installations and COMPUTER, a also application electronic and digital devices in solving various technical problems.

2. results learning. AT result development educational disciplines student must

- know: electrical laws and methods of analysis of electrical and magnetic circuits; appointment and principle actions main nodes contemporary equipment, containing electrical machines, devices and elements of automation, electrical measuring devices; electrical terminology and symbols.
- be able to: experimentally determine the parameters and characteristics of typical electrical devices; turn on electrical devices and machines, manage them and to control them efficient and safe work; to competently draw up technical specifications for the development of automated control systems for production processes together with electrical engineers.
- own: methodology for the selection of electrical products to ensure the functioning of electrical machines and apparatus; a technique for reading electrical circuits and determining the characteristics of typical electrical devices.

3. Formed competencies: SK-1 - To be able design analog systems and select devices of digital control systems that correspond to the functionality of technological equipment

4. Requirements and forms of the current attestation: differentiated test (oral form). In order to be admitted to the test, the student, in accordance with the curriculum, must complete and defend laboratory work, as well as individual tasks.