

**ELECTRICAL ENGINEERING And ELECTRONICS**  
**ANNOTATION**  
**To TRAINING PROGRAM INSTITUTIONS HIGHER EDUCATION**

**Speciality 1-37 01 07 "Car service"**

	The form receiving higher education
	full-time (daily)
Well	2
Semester	four
Lectures, hours	fift y
Practical (seminar) lessons, watch	16
Laboratory lessons, watch	34
Exam, semester	four
classroom hours on educational discipline	100
Independent Work, watch	44
Total hours on educational discipline / test units	144/4 –

1. Brief content educational disciplines. Discipline applies to module "Electrical Engineering and electronics" and contains two section: "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. Competences to be formed: BOD-12 – To be able to study and analyze the device and principles of operation of electrical units and electronic modules.

4. Requirements and forms of the current certification: differentiated exam (oral and written form). In order to be admitted to the exam, the student, in accordance with the curriculum, must complete and protect laboratory work, a also individual assignments.