

ELECTRICAL EQUIPMENT OF MOTOR
VEHICLES
(course title)

COURSE SYLLABUS ABSTRACT

6-05-0715-07 "Operation of ground transport and technological machines and complexes"
(by areas)

(specialty code and name)

Technical Maintenance of Automobiles,

Vehicle service

(concentration)

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	3	3	3
Semester	5	6	5
Lectures, hours	34	6	6
Laboratory classes, hours	34	6	6
In-class test (semester, hours)	-	6th semester (2 hours)	5th semester (2 hours)
Exam, semester	5	6	5
Contact hours	68	14	14
Independent study, hours	40	94	94
Total course duration in hours / credit units	108/3		

1. Course outline

Acquisition of knowledge and skills in analyzing modern designs, circuits, diagnostic methods, maintenance and repair of electrical equipment of cars.

2. Course learning outcomes

Upon completion of the course, students will be expected to know:

- the theory, principle of operation and design of the vehicle electrical system as a whole, its individual subsystems and components;

- advantages and disadvantages of various models and modifications of components and systems of electrical equipment;

- operating principle, device, design features of electrical equipment devices;

be able to:

- ensure proper operation, maintenance and repair of appliances and electrical equipment components;

- identify the continuity and development trends of the main systems and components of electrical equipment;

- understand the design and operation features of new devices in automotive electrical systems.

to possess a skill:

- construction of individual nodes and subsystems;

- diagnostics, maintenance and repair of devices and components of electrical equipment;

- inspections of electrical equipment systems and components on stands and using instruments;

- reading electrical circuits of electrical equipment of cars.

3. Competencies

Carry out diagnostics and repair of electrical equipment and electronic systems of cars

4. Requirements and forms of midcourse evaluation and summative assessment

Reports on laboratory work with their oral defense; examination in oral or written form.