

## VEHICLES

(course title)

### COURSE SYLLABUS ABSTRACT of higher education institution speciality

1-37 01 07 " Vehicle service"

(speciality code and name)

	STUDY MODE	
	full-time	part-time
Year	3,4	3,4
Semester	5,6	5,6
Lectures, hours	84	20
Practical classes (seminars), hours	50	12
Laboratory classes, hours	–	5 / 2 6 / 2
Exam, semester	5,6	5,6
Contact hours	134	36
Independent study, hours	94	192
Total course duration in hours / credit units	228 / 6	228 / 6

#### 1. Course outline

The academic discipline includes knowledge of the purpose, prohibition, arrangement and operation of vehicles and their elements, theory of movement of vehicles, basics of building vehicles and their elements.

#### 2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

the role, status and prospects of the vehicle industry (AI) of vehicles;

general arrangement and classification of vehicles;

purpose, classification, arrangement and justification of the operation of units, systems, mechanisms, assemblies;

the basic principles of the movement of vehicles;

exploitative properties (EP) of vehicles;

indicators, assessment methods and ways to solve EP;

workflows, types of loading and methods for calculating the elements of vehicles;

assessment methods and ways to improve vehicles;

be able to:

apply knowledge in technical exploitation and transportation;

assessment of the design perfection of the vehicles;

perform calculations of units, components, systems, mechanisms, as well as determine the parameters of the movement of vehicles;

possess:

methods for calculating the strength and functional elements of the vehicle, as well as methods for calculating the parameters of the motion of the vehicle.

#### 3. Competencies

BPC-11 Be able to study and analyze data on measurements and surveys of vehicle components and assemblies

#### 4. Requirements and forms of midcourse evaluation and summative assessment

oral-written form: reports on laboratory work with their oral defense, exam.