



Nr. \_\_\_\_\_ din \_\_\_\_\_

USAMV 0702030323

## COURSE DESCRIPTION

### 1. General data

1.1. Higher Education Institution	University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca
1.2. Faculty	Food Science and Technology
1.3. Department	Department of Food Engineering
1.4. Domain of study	Food Engineering
1.5. level of study <sup>1)</sup>	Licence
1.6. Specialization/ Program of study	Food products control and expertise
1.7. Form of teaching	IF

### 2. Characteristics of the course

2.1. Name of the course	VEHICLE DRIVING 2							
2.2. Course leader	Assistant lecturer phd.eng Valentin Dan Crisan							
2.3. Coordinator of the laboratory/seminars activity	Assistant lecturer phd.eng Valentin Dan Crisan							
2.4. Year of study	3	2.5. Semester	2	2.6. Type of Evaluation	Summative	2.7. Course regime	Content <sup>2</sup>	DC
							Level of compulsory <sup>3</sup>	DFa

### 3. Total estimated time (hours/semester for the teaching activities)

3.1. Number of hours/week– frequency form	3	of which care: 3.2. course	1	3.3. seminar/ laboratory/ project	2
3.4. Total hours in the teaching curricula	42	Of which: 3.5. course	14	3.6. seminar/laboratory	28
Distribution of time					hour
3.4.1. Study based on hand book, notes, bibliography					2
3.4.2. Extra documentation in the library, on specific electronic platforms and on field					2
3.4.3. Prepare the seminars / laboratories / projects, theme, essays, reports, portfolio					2
3.4.4. Tutorial					1
3.4.5. Examination					1
3.4.6. Other activities					
3.7. Total hours of individual study	8				
3.8. Total hours on semester	50				
3.9. Number of ECTS <sup>4</sup>	2				

### 4. Pre-conditions (where is the case)

4.1. of curriculum	- Engines, tractor driving
4.2. of competences	The student must have knowledge about traffic rules, operating and driving vehicles

### 5. Conditions (where is the case)

5.1. of course development	The course is interactive, students can ask questions regarding the content of the exposure. Academic discipline imposes time start and end of the course. We do not allow any other activities during the lecture
5.2. of seminar/laboratory/project development	<b>Note: In the case of online teaching, the teaching methods are adapted to the online conditions and platforms used.</b>

6.

### Specific competences gained

Professional competences	<p>To know the specific language for vehicle driving discipline</p> <p>To know the traffic rules</p> <p>To understand the functioning of an internal combustion engine</p> <p>To recognize the main components of a vehicle</p> <p>To know the construction and operation of a vehicle</p>
Transversal competences	<p>Aquiring practical knowledge for obtaining driver licence.</p>

### 7. Subject Objectives (as a result of the specific competences gained)

7.1. Subject general objective	To acquire theoretical and practical knowledge in order to obtain driving license for a category B, C, CE.
7.2. Specific objective	<p>To understand the road norms and traffic rules in order to travel on public roads</p> <p>To know the factors which influence the quality of a good driver</p>

### 8. Content

8.1.COURSE	Methods of teaching	Observations
<b>Number of hours –14</b>		
Road Vehicles.. The functional and constructional characteristics of the engine.	Lectures	1 lecture
Constructive and functional peculiarities of motor mechanisms.	Lectures	2 lectures
Installations of internal combustion engines. The transmission of vehicles.	Lectures	1 lecture
Steering, braking and suspension .	Lectures	1 lecture
Technical maintenance of vehicles.		
Repair of motor vehicles. Rational use of motor vehicles.	Lectures	2 lectures

8.2.PRACTICAL WORK		
<b>Number of hours – 28</b>		
Operation of internal combustion engine.Design and functional particularities.	Identification of engine parts	1 laboratory study
Mechanisms for combustion engines. Components, materials, adjustments, faults and fixes.	Identification of mechanism	2 laboratory studies
Engine Installations. Design particularities, adjustments for proper operation, faults and fixes.	Knowing of installations parts	2 laboratory studies
The transmission of vehicles. Design particularities, efficient operation, adjustment, faults and fixes.	Identification of transmission parts	2 laboratory studies
Steering, braking and suspension. Design, adjustment, faults and fixes.	Knowing steering parts	2 laboratory studies
Domestic and international regulations on environmental pollution	Current european laws	1 laboratory study
The daily maintenance. Technical maintenance and regular service inspections	Maintenance books	1 laboratory study
Repair system. Current repair and overhaul	Repair graphics	1 laboratory study
Questionnaires: mechanics		2 laboratory studies

#### Compulsory bibliography:

- Ordonanța de urgență nr. 195/12 decembrie 2002 privind circulația pe drumurile publice, completata prin OUG. Nr. 63/2006 și OUG. Nr. 69/2007



2. Regulamentul de aplicare a ordonaței de urgență a Guvernului nr. 195/2002 privind circulația pe drumurile publice

*Facultative bibliography:*

1. Naghiu Al., si colab. 2003 - Baza energetica
2. Bataga N., si colab., 1995 – Motoare cu ardere interna

**9. Corroboration of the subject content with the expectations of the epistemic communities' representatives, of the professional associations and representatives employers in the domain**

In order to identify ways of modernization and continuous improvement of teaching and course content with the current issues and practical problems, teachers attend meetings where they meet specialists in mechanical and transport domain

**10. Evaluation**

Type of activity	10.1. Evaluation criteria	10.2. Evaluation methods	10.3. Percent of the final grade
<b>10.4. Course</b>	Knowledge of traffic rules Knowledge of construction, operation and exploitation of motor vehicles	Exam	60%
<b>10.5. Seminar/Laboratory</b>	Knowledge of traffic rules and learning skills to drive a car Identifying the parts and operation of motor vehicles	2 Midterms	40%
<b>10.6. Minimal standard of performance</b> Mastering the information needed to obtain a driving license at an acceptable level. Obtaining the pass mark in midterms is a condition for graduation.			

<sup>1</sup> level of study – to be chosen one of the following – Bachelor /Post graduate/Doctoral

<sup>2</sup> Course regime (content)- for bachelor level it will be chosen one of the following - **DF** (fundamental subject), **DD** (subject in the domain), **DS** (specific subject), **DC** (complementary subject).

<sup>3</sup> Course regime ( compulsory level)- to be chosen one of the following – **DI** (compulsory subject) **DO** ( Optional subject) **DFac** ( Facultative subject).

<sup>4</sup> One ECTS is equivalent with 25-30 de hours of study (didactical and individual study).

Course coordinator:  
Assistant lecturer phd.eng Valentin Dan  
Crisan

Leader of the laboratory/seminars  
Assistant lecturer phd.eng Valentin  
Dan Crisan

Date of completion  
11.09.2021

Approved by the  
Department on  
22.09.2021

Head of the Department  
Sevastița Muste, PhD, habil., Professor

Approved by the Faculty  
Council on  
28.09.2021

Dean  
Elena Mudura, PhD, habil., Professor