



Nr. _____ din _____

USAMV0107030321

COURSE DESCRIPTION

1. General data

1.1. Higher Education Institution	University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca
1.2. Faculty	Veterinary Medicine
1.3. Department	Technical and soil sciences
1.4. Domain of study	Agronomy
1.5. level of study ¹⁾	Licence
1.6. Specialization/ Program of study	Environment Engineering
1.7. Form of teaching	IF

2. Characteristics of the course

2.1. Name of the course	VEHICLE DRIVING							
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	III	2.5. Semester	2	2.6. Type of Evaluation	Continuously	2.7. Course regime	Content ²⁾	DC
							Level of compulsory ³⁾	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	1
3.4. Total hours in the teaching curricula	42	Of which: 3.5. course	14	3.6. seminar/laboratory	14
Distribution of time					hours
3.4.1. Study based on hand book, notes, bibliography					16
3.4.2. Extra documentation in the library, on specific electronic platforms and on field					4
3.4.3. Prepare the seminars / laboratories / projects, theme, essays, reports, portfolio					22
3.4.4. Tutorial					2
3.4.5. Examination					4
3.4.6. Other activities					
3.7. Total hours of individual study	32				
3.8. Total hours on semester	60				
3.9. Number of ECTS ⁴⁾	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	Practical studies are required. Periodical analysis of knowledge and leadership skills with the instructor is required. Academic discipline is imposed for the duration of studies.



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	To understand the road norms and traffic rules in order to travel on public roads To know the factors which influence the quality of a good driver

8. Content

8.1.COURSE	Methods of teaching	Observations
<p>Number of hours –14</p> <p>Road Vehicles.. The functional and constructional characteristics of the engine.</p> <p>Constructive and functional peculiarities of motor mechanisms.</p> <p>Installations of internal combustion engines. The transmission of vehicles.</p> <p>Steering, braking and suspension .</p> <p>Technical maintenance of vehicles.</p> <p>Repair of motor vehicles. Rational use of motor vehicles.</p>	<p>Lectures</p> <p>Lectures</p> <p>Lectures</p> <p>Lectures</p> <p>Lectures</p>	<p>1 lecture</p> <p>2 lectures</p> <p>1 lecture</p> <p>1 lecture</p> <p>2 lectures</p>
<p>8.2.PRACTICAL WORK</p> <p>Number of hours – 28</p> <p>Operation of internal combustion engine.Design and functional particularities.</p> <p>Mechanisms for combustion engines. Components, materials, adjustments, faults and fixes.</p> <p>Engine Installations. Design particularities, adjustments for proper operation, faults and fixes.</p> <p>The transmission of vehicles. Design particularities, efficient operation, adjustment, faults and fixes.</p> <p>Steering, braking and suspension. Design, adjustment, faults and fixes.</p> <p>Domestic and international regulations on environmental pollution</p> <p>The daily maintenance. Technical maintenance and regular service inspections</p> <p>Repair system. Current repair and overhaul</p> <p>Questionnaires: mechanics</p>	<p>Identification of engine parts</p> <p>Identification of mechanism</p> <p>Knowing of installations parts</p> <p>Identification of transmission parts</p> <p>Knowing steering parts</p> <p>Current european laws</p> <p>Maintenance books</p> <p>Repair graphics</p>	<p>1 laboratory study</p> <p>2 laboratory studies</p> <p>2 laboratory studies</p> <p>2 laboratory studies</p> <p>2 laboratory studies</p> <p>1 laboratory study</p> <p>1 laboratory study</p> <p>1 laboratory study</p> <p>2 laboratory studies</p>
<i>Compulsory bibliography:</i>		



1. 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 teh expectations of the epistemic communities' representatives, of the proffessional 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
10.4. Course	Knowledge of traffic rules Knowledge of construction, operation and exploitation of motor vehicles	2 Midterms	60%
10.5. Seminar/Laboratory	Knowledge of traffic rules and learning skills to drive a car Identifying the parts and operation of motor vehicles	2 Midterms	40%
10.6. Minimal standard of performance Mastering the information needed to obtain a driving license at an acceptable level. Obtaining the pass mark in midterms is a condition for graduation.			

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

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

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

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

Date of completion
04.09.2019

Course coordinator:
Assistant lecturer phd.eng Valentin Dan
Crisan

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

Date of Department's
aproval
05.09.2019

Department manager
Assistant proffesor phd. Eng. Ovidiu Ranta