



Erasmus+

Educational for Drone (eDrone)

(Project Number 574090-EPP-1-2016-1-IT-EPPKA2-CBHE-JP)

WP3, D3.3

Educational material for the course program

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Introduction / Foreword

One output of the WP.3 activities will be the educational materials. These contents, provided as presentation slides, booklets and lecture notes, will be realized mainly by the partners staff. In some cases, if required, professional translation of the produced teaching contents will be necessary.

This deliverable provides an overview of available materials by partner country.

1. List of teaching material and presentations in zip file (under the drive)

MOLDOVA

All the teaching materials including the curricula and Handbook can be accessed on the Moodle platform <https://moodle.usm.md/course/index.php?categoryid=208>.

Also on the Moodle platform are available presentations, videos, etc.

<https://drive.google.com/drive/u/0/folders/1bO8sj8UIWr91o9P-L8Ia7Po-rOERxieV>

- A. Technologies of Drones
 - Tehnici de pilotare.pdf
 - Tehnici de pilotare_suport.pdf
 - moodle_Lecture_7_2019.pdf
 - moodle_Lecture_6_2019.pdf
 - moodle_Lecture_5_2019.pdf
 - moodle_Lecture_4_2019.pdf
 - moodle_Lecture_3_2_Elemente_componente_2019.pdf
 - moodle_Lecture_3_1_Elemente_componente_2019.pdf
 - moodle_Lecture_2_Terminologia_2019.pdf
 - moodle_Lecture_1_Introducere_2019.pdf
 - eDrone_sensors_actuators.pdf
 - eDrone_intro_avionics.pdf
 - eDrone_control_system.pdf
 - eDrone C3-4.pdf
 - eDrone C3-3.pdf
 - C3_2.pdf
 - C3_1.pdf
 - C-5-Rom.pptx



- 9_SateliteNavigationSystem_DroneAvionics_eDrone.pdf
- 8_InertialNavigationSystem_DroneAvionics_eDrone.pdf
- 5_PowerDistribution system_DroneAvionics_eDrone.pdf
- 4_IntroductionTo Radiocomunication_DroneAvionics_eDrone.pdf

B. Laws

- Suport de Curs eDrone.docx
- Reglementari 2.12.2019 pdf.pdf
- Politici si drept international in domeniul aviatiei civile.pdf
- Introducere, reguli, organizatii 3.12.2019 pp.pptx
- e-Drone-public si privat.pdf
- Aspecte penale și procesual penale.pdf

C. Civil applications

- Cebotaru E. AAP.pdf
- C-8-Aplicarea_Cadastru.pdf
- C-8-Aplicarea_Agricultura.pdf
- ART 8.pdf
- 2020.01.31 Aplicatii civile.pdf

GEORGIA

Course teaching materials include presentations, PDF reading materials and Videos. The material is uploaded on Moodle (e-courses.tsu.ge).

The list of teaching material and presentations are in zip file (under the drive) - <https://drive.google.com/drive/u/1/folders/1kH6SCiPCyxUMZuVLDmM8DqGbVEJi9x2E>

- Drones Piloting Techniques - (დრონის მართვის ტრენინგო).pptx
- Drones Architecture (დრონის არქიტექტურა - ტერმინოლოგია და RPAS კატეგორიები).pptx
- Aerodynamics)(ავროდინამიკა).pptx
- Lodovico · SlidesCarnival.pptx
- eDrone Lecture Slide Template.pptx
- eDrone Entrepreneurship.pptx

BELARUS

Updated courses

Small spacecraft (Bachelor)	http://elib.bsu.by/handle/123456789/164218
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<u>GIS technology (Bachelor)</u>	http://elib.bsu.by/handle/123456789/160785
Methods of information processing in the cosmophysical experiment (Bachelor)	http://elib.bsu.by/handle/123456789/164217
Basics of satellite navigation (Bachelor)	http://elib.bsu.by/handle/123456789/155552
Statistical theory of radio navigation systems, radar and remote sensing (Bachelor)	http://elib.bsu.by/handle/123456789/163209
Special laboratory "Study of methods of digital signal processing based on the platform ELVIS" (Bachelor)	http://elib.bsu.by/handle/123456789/155550

New developed courses

Practical ballistics and navigation (Master)	http://elib.bsu.by/handle/123456789/208143
Neural networks (Bachelor)	http://elib.bsu.by/handle/123456789/211683
Machine and deep learning methods (Master)	http://elib.bsu.by/handle/123456789/214034
Signal and Image Processing (Master)	http://elib.bsu.by/handle/123456789/214066
Big Data Analysis (Master)	http://elib.bsu.by/handle/123456789/211691
Application programming	http://elib.bsu.by/handle/123456789/213935
Vachine learning algorithms (Master)	http://elib.bsu.by/bitstream/123456789/228774/1/%D0%90%D0%BB%D0%B3%D0%BE%D1%80%D0%B8%D1%82%D0%BC%D1%8B%20%D0%BC%D0%B0%D1%88%D0%B8%D0%BD%D0%BE%D0%B3%D0%BE%20%D0%BE%D0%B1%D1%83%D1%87%D0%B5%D0%BD%D0%B8%D1%8F%D0%BC%D0%B0%D0%B3%D0%B8%D1%81%D1%82%D1%80%D0%B0%D0%BD%D1%82%D1%8B%20%28%D0%98%D1%82%D0%BE%D0%B3%29%20



[%28%D0%A7%D0%B5%D1%80%D0%BD%D1%8F%D0%B2%D1%81%D0%BA%D0%B0%D1%8F%20%D0%AD.%D0%90.%29.pdf](#)

ARMENIA

The list of teaching materials and presentations are available in zip file (under the drive): *Annex 3*.

- Course materials presentation 1.pdf
- Course materials presentation 1.pdf
- Course materials presentation 1.pdf
- Drones textbook 1.pdf
- eDrone_MARKETING.pdf
- Lecture notes.pdf
- eDrone_MARKETING.pptx
- 1.1. Agriculture Drones.docx
- 1.2. Environmental Applications.docx
- 1.3. Industrial Applications
- 1.4. Civil Engineering
- 1.5. Disaster Relief
- 1.6. Safety and Security
- 2. Different National Economic and Market Strategies; 3. The marketing strategy process.pdf

2. List of booklets and lecture notes available

ARMENIA

The booklet developed by eDrone Armenian team contains:

- the project logo, name, number,
- EU logo, disclaimer,
- logos of the project partners and associated partners,
- contact information about the Armenian universities (ASUE, NPUA),
- photos,
- main aim and objectives of the project,
- module titles of "Unmanned aerial vehicle training" course.

The booklet is available on *Annex 4*.

The lecture notes are available on *Annex 3 & Annex 5*.

BELARUS

Two textbooks published

E.Tcherniavskaia, V. Ermakovich, S. Volchek, V. Saetchnikov Methods and software technologies for digital processing of aerospace images for environmental monitoring, Minsk Kolorgrad, 2020, 209 p.

A. Spiridonov, D. Ushakov, V. Saetchnikov Navigation and ballistic support of ultra-small spacecraft, Minsk Kolorgrad, 2020, 330 p.

Stand in English and Russian on eDrone projects.

Booklets in English and Russian on eDrone project.

GEORGIA

The Booklet developed contains information about eDrone Laboratory, that was set up with the resources from the equipment line of the eDrone Project budget. contact information of the manager of the OED. Information about the course attendees and associate partners of the Project.

MOLDOVA

Moldovan partners involved in the eDrone project edited a Handbook on education for drones in Roumanian language. All the materials had been prepared using the Program countries experts recommendations, given during the CTT courses deployment in Chisinau (June 4, 2018-July 15, 2018). All the materials had been translated from English into Roumanian language, using the resources from the Subcontracting line of the eDrone project budget. The handbook represents real support for the attendees of the CIA courses and it is available on the [Moodle platform](#).

3. Language course and available translation

ARMENIA

The language of the courses taught at OED laboratory in Armenia is Armenian.

BELARUS

Courses language is Russian

GEORGIA

The CIA Courses at the laboratory at TSU is conducted in Georgian, resources are available in Georgian and English. During the selection process English language knowledge is required. As the course participants should have competences to read materials in English. Also, some materials have been translated from English to Georgian using the resources from the Subcontracting line of the eDrone project budget.

MOLDOVA

All the materials used in the CIA courses had been translated from English into Roumanian language, using the resources from the Subcontracting line of the eDrone project budget. The handbook in Roumanian language is available on the [Moodle platform](#), as well as other teaching materials used in the CIA courses.

[eDrone Moodle in Moldova URL](#)

It contains all the didactic material supporting the CIA activities in Moldova, including the *Curricula* and the *Handbook*.

The username is: flamonaca@unisannio.it

The password is: eDroneMSU

For any problem please contact the the 'e-courses' administrator, Mrs Tatiana Bulimaga: tbulimaga@gmail.com

Conclusion

The elements reported in this deliverable demonstrate a significant production of documents and educational content in different forms: pdf, digital, interactive. Efforts have been made to make documents accessible in the original language or in English.