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Educational for Drone (eDrone)

574090-EPP-1-2016-1-IT-EPPKA2-CBHE-JP



**NATIONAL POLYTECHNIC UNIVERSITY OF ARMEIA
INSTITUTE OF MECHANICAL ENGINEERING, TRANSPORT SYSTEMS AND
DESIGN
(MTD Institute)**

Approved
Rector, Prof. Vostanik Marukhyan

**Operational Regulation
of the Drone Education Office**

*Recommended by the Institute of Mechanical
Engineering, Transport Systems and Design
for approval in the department meeting
of 03.02.2020, No. 6*

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I. Preliminaries

- 1.1. The Drone Education Office is designed in the framework of the Erasmus+ Project "Education for Drones – eDrone" 574090-EPP-1-2016-1-IT-EPPKA2-CBHE-JP, implemented by a consortium of 17 institutions in eight countries.
- 1.2. The aim of the eDrone Project is to define a learning environment to provide more opportunities in accessing new skills concerning to the use of drone-related technologies in professional activities. These new competences regard, in particular, to the application of advanced solutions in the field of information and communication technologies for the use of drones and data collected by them. The use of drones by professionals will open up new scenarios that require practical and theoretical knowledge, which go beyond the simple management and maintenance of drones: (i) the mechanical characteristics of drones, (ii) detection equipment, (iii) processing and use of acquired information, and (iv) national and international policies governing their use.
- 1.3. The project aims to create an innovative infrastructure based on information and communication technologies that employs improved techniques and methodologies which would enable all partner countries to create a network for the exchange of educational content and databases for professionals in the field of drones. This infrastructure will be used to support the Drone Education Office (DEO) in the transfer of knowledge and technologies to professionals. The European partners involved in the project will transfer their know-how and expertise to achieve the objectives of the eDrone project by training future teachers from the Drone Education Office (DEO) and by offering them theoretical and practical support in the first edition of continuing education courses for drone education.

II. General provisions

- 2.1. The Drone Education Office, hereinafter referred to as the *Office*, is founded by the decision of Rector of NPUA.
- 2.2. The *Office* is located in the Research Center of Aerial Robotics of NPUA
- 2.3. The *Office* is an entity for teaching and research activities within the Institute of Mechanical Engineering, Transport Systems and Design.
- 2.4. The *Office* shall operate in accordance with the Law of the Republic of Armenia on Higher and Postgraduate Professional Education of 14 December 2004, the Charter of NPUA.





III. Mission of the Laboratory and primary activity directions

- 3.1. The *Office* is primarily aimed at carrying out teaching and scientific activities in the field of drones and their civil application.
- 3.2. The *Office* is accessible to the trainees of the Continuing Vocational Training Programme "Education for Drones", teachers, researchers, PhD students, master students, and bachelor students of NPUA for the implementation of the continuous vocational training program, for advanced training studies, and in order to solve theoretical and applicative problems in the subject area.
- 3.3. The *Office's* activity is oriented towards the establishing of the cooperation relations with educational and scientific centres in the Republic of Armenia and abroad, in order to promote and implement the Continuing Vocational Training Program "Education for Drones", as well as conduct joint scientific research.
- 3.4. The *Office* is actively involved in the establishing of the mutually beneficial cooperation with the Armenian and international organizations in the field of the development, manufacture and selling of the Drones and their equipment in order to foster the broad application of the newest Drone technologies in the National Economy.
- 3.5. Activities of the *Office*:
 - a) implementation of the Continuing Vocational Training Programme "Education for Drones";
 - b) training of the bachelor students, master students and PhD students in the field of drones and their applications;
 - c) scientific research, carrying out of the experimental and practical activities in the field of the application of Drones and data collected by them;
 - d) providing consulting services in the field of drones and their applications;
 - e) organising seminars in the field of drones and their applications;
 - f) participation in events for the dissemination of activities of the *Office* and the Continuing Vocational Training Programme "Education for Drones";
 - g) publication of advertisement and scientific materials in the field of drones and their applications.

IV. Objectives of the Office

- 4.1. Objectives of the *Office*:
 - a) implementation of the Continuing Vocational Training Programme "Education for Drones";





- b) training of the bachelor students, master students and PhD students in the field of drones and their applications;
- c) scientific research and development of the new methods and techniques of the application of Drones and data collected by them in the National Economy, carrying out of the experimental and practical activities in this field;
- d) promoting the *Office* within NPUA and beyond, contributing to the development of the capacity for interdisciplinary training and research;
- e) ensuring a modern conceptual-methodical and logistical framework in the field of drones and their application and in solving theoretical-applicative problems;
- f) providing methodical-practical assistance and transfer of knowledge and technologies to economic operators, on the basis of service contracts.

4.2. The results of the activity shall be materialised in:

- a) Continuing Vocational Training programmes;
- b) Continuing Vocational Training curricula in the field of drones and their applications;
- c) changes and additions to the content of subjects studied by the bachelor students, master students and PhD students that introduce the materials in the field of drones and their applications;
- d) scientific articles published in specialized journals;
- e) books, treaties, monographs, course handbooks, methodological guides with scientific content published and submitted to the NPUA Library, the National Library of the Republic of Armenia, as well as other libraries abroad;
- f) articles published in volumes of conference proceedings or in specialized journals from the Republic of Armenia and from abroad;
- g) scientific communications at international and national conferences;
- h) research reports;
- i) articles popularizing scientific achievements, TV and Radio broadcasts.

V. Logistic potential. Human and financial resources

Logistics:

5.1. The activities of the *Office* are carried out within National Polytechnic University of Armenia and are intended for research activity and teaching of bachelor students, master students, PhD students, Vocational Training Programme trainees and scientific collaborators.





5.2. The technical-material basis (installations, machinery, etc.) necessary for conducting the research activity within the *Office* consists of:

- a) equipment purchased with the support of the Erasmus+ project "Education for Drones – eDrone" 574090-EPP-1-2016-1-IT-EPPKA2-CBHE-JP;
- b) equipment provided by the National Polytechnic University of Armenia;
- c) material means intended for didactic-scientific activity.

Human resources:

5.3. Staff trained under the Erasmus+ Project "Education for Drones – eDrone" 574090-EPP-1-2016-1-IT-EPPKA2-CBHE-JP, both employees of NPUA, as well as those of other institutions in the Armenian partnership within the afore-mentioned project.

Financial resources:

5.4. The financial resources of the *Office* consist of:

- a) the tuition fees of the "Training of the multi-rotor-type UAV operators" training courses;
- b) funds from national and international projects in the field of research and innovation, contracts with economic agents and institutions, as well as other sources.

VI. Rights and responsibilities of the Staff of the Office

Rights:

- 6.1. The rights of the staff of the *Office* shall be those arising from the legislation in force and shall be established by the NPUA-wide Employment contract.
- 6.2. The staff of the *Office* shall have the right of professional initiative. The freedom of professional initiative relates mainly to:
 - a) how to design professional activity and achieve scientific and educational objectives;
 - b) identification of scientific problems, forming scientific hypotheses, defining the objectives and methods of their scientific activity;
 - c) launching new directions of scientific research;
 - d) participation in various contests, as well as didactic and scientific projects;
 - e) implementation of innovative ideas for modernizing research and didactic potential;
 - f) organization of science clubs, summer schools, seminars, meetings with the trainees of the Continuing Vocational Training Program/bachelor students/master students/doctoral students.
- 6.3. The *Office* staff shall be provided with:



Associate Partners



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- a) protection of their intellectual property in accordance with the legislation in force;
- b) remuneration in accordance with the legislation in force;
- c) the right to participate in competitions, including those that require co-financing from NPUA, if the expenses are well-motivated;
- d) the right to various forms of reward and mentions.

Responsibilities:

6.4. The staff of the *Office* shall be responsible for:

- a) the efficient work of the *Office*;
- b) timely preparation of the self-assessment procedure and preparation of the dossier for the accreditation of the *Office* and the Continuing Vocational Training Programme;
- c) the use of the *Office's* assets exclusively for professional activities in its interest.

VII. Cessation of laboratory activity

7.1. The cessation of the *Office's* activity may take place by liquidation or reorganization (merging, division, transformation into another legal-organisational form) by Rector's decision of the NPUA, in accordance with the legislation in force.

VIII. Final remarks

8.1. The *Office's* rules are approved by the Rector of NPUA.

8.2. The *Office's* activity shall be carried out in accordance with the primary scientific directions, programmes and activity plans of NPUA.

Vice-rector for International Relations

Ruben Aghgashyan

OED Head

Hrachya Karapetyan

National Polytechnic University of Armenia

