

# **SPECIALTY: APPLIED MECHANIC (BACHELOR)**

## **Educational and Professional Program Automated and Robotic Mechanical Systems**

**Study duration: 3 year 10 months**

**Qualification: Mechanical Engineer**

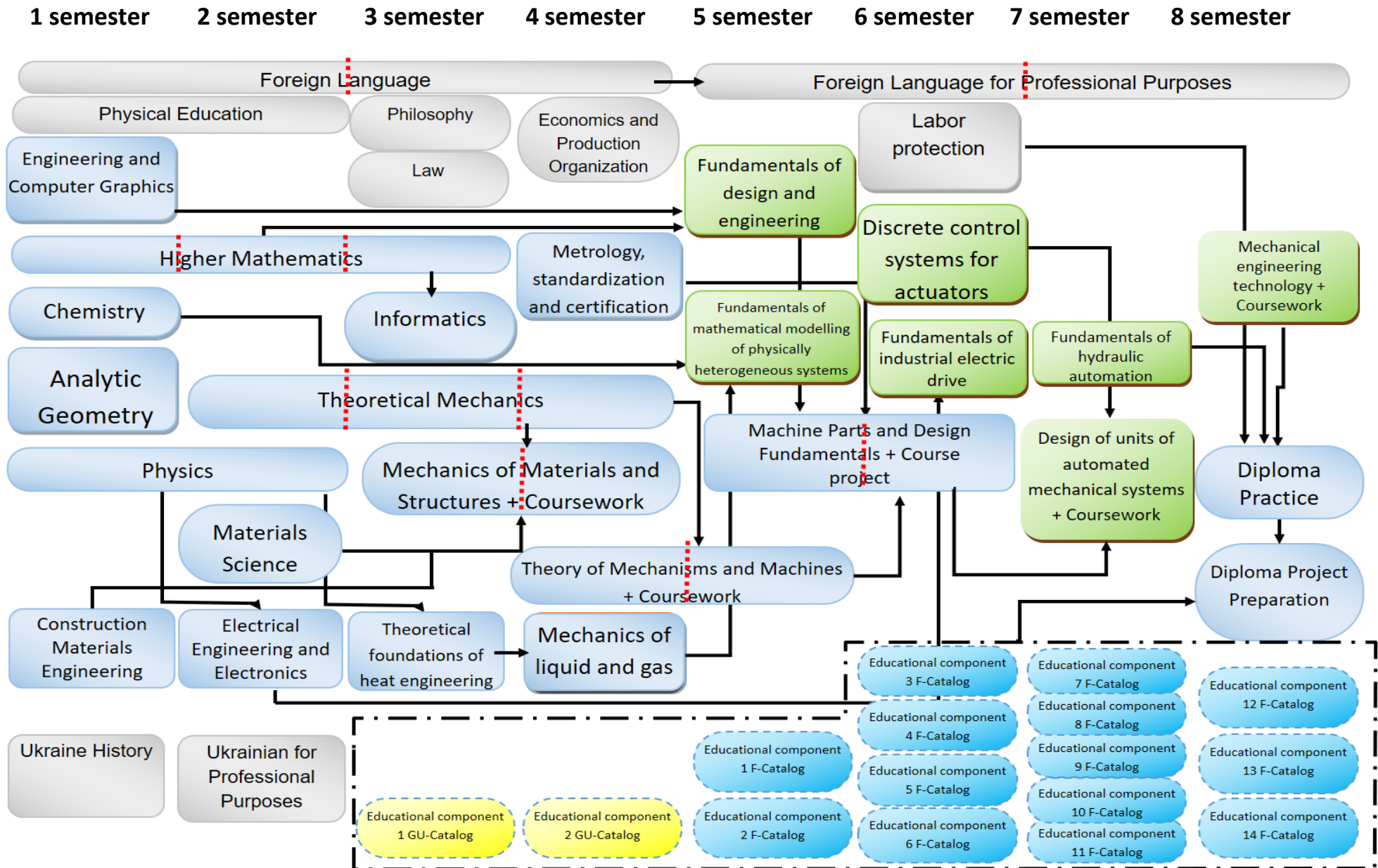
<b>Compulsory educational components:</b>	<b>180 ECTS Credits</b>
<b>Optional educational components:</b>	<b>60 ECTS Credits</b>
<b>Pre-diploma Practice + Diploma Project</b>	<b>12 ECTS Credits</b>
<b>Vocational training cycle</b>	<b>151 ECTS Credits</b>
<b>Total educational components:</b>	<b>240 ECTS Credits</b>

**Automated and Robotic Mechanical Systems accommodates next peculiarity directions (certificate programs):**

<b>“Mechatronic in Mechanical Engineering”</b>	<b>60 ECTS Credits</b>
<b>“Hydraulic and Pneumatic Smart-System”</b>	<b>60 ECTS Credits</b>
<b>“Mechanics’ in Logistic Engineering”</b>	<b>60 ECTS Credits</b>

# AUTOMATED AND ROBOTIC MECHANICAL SYSTEMS

## STRUCTURAL AND LOGICAL SCHEME OF THE EDUCATIONAL PROGRAM



## **CONTINGENT OF STUDENTS**

<b>1-T YEAR OF STUDY:</b>	<b>56 STUDENTS</b>	<b>(3 ACADEMIC GROUPS)</b>
<b>2-ND YEAR OF STUDY:</b>	<b>45 STUDENTS</b>	<b>(3 ACADEMIC GROUPS)</b>
<b>3-RD YEAR OF STUDY:</b>	<b>42 STUDENTS</b>	<b>(3 ACADEMIC GROUPS)</b>
<b>4-TH YEAR OF STUDY:</b>	<b>31 STUDENTS</b>	<b>(3 ACADEMIC GROUPS)</b>

## **THEMES OF DIPLOMA PROJECTS**

- Hydroficated baling press for recyclable materials** (*Gordiyenko Vitaliy*)
- Mixer for preparation of cutting fluid** (*Poltoliarna Tetiana*)
- Hydrodrive of mobile crane-manipulator** (*Samusenko Mykola*)
- Internal combustion engine fuel injector cleaning system** (*Santashov Oleksiy*)
- Automated hydraulic drive of sheet bending press** (*Botsman Maxim*)
- Development of an automated hydraulic deep draw module** (*Kostiuchenko Ivan*)
- Hydraulic drive with proportional control for the forklift** (*Cherevko Danilo*)
- Modernization of an Automation Control System for a Seed Packaging Line** (*Dgabura Yana*)
- System for the artificial rehabilitation heart** (*Sytنيuk Georg*)
- Mobile device for ultrasonic cavitation disinfection of liquids** (*Bagdasarian David*)
- Hydraulic Manipulator with Automated Trajectory Movement** (*Fedotov Yevgen*)
- Modernization of hydraulic system of pallet changer PAL-TRANSFER** (*KHarchenko Ilya*)