

VOCATIONAL TRAINING

ELECTRICAL ENGINEER

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- Educational program: **ELECTRICAL ENGINEER**
- Title of profession: **electrical engineer**
- It lasts 4 years.
- It ends with vocational matura.

ELECTRICAL ENGINEER

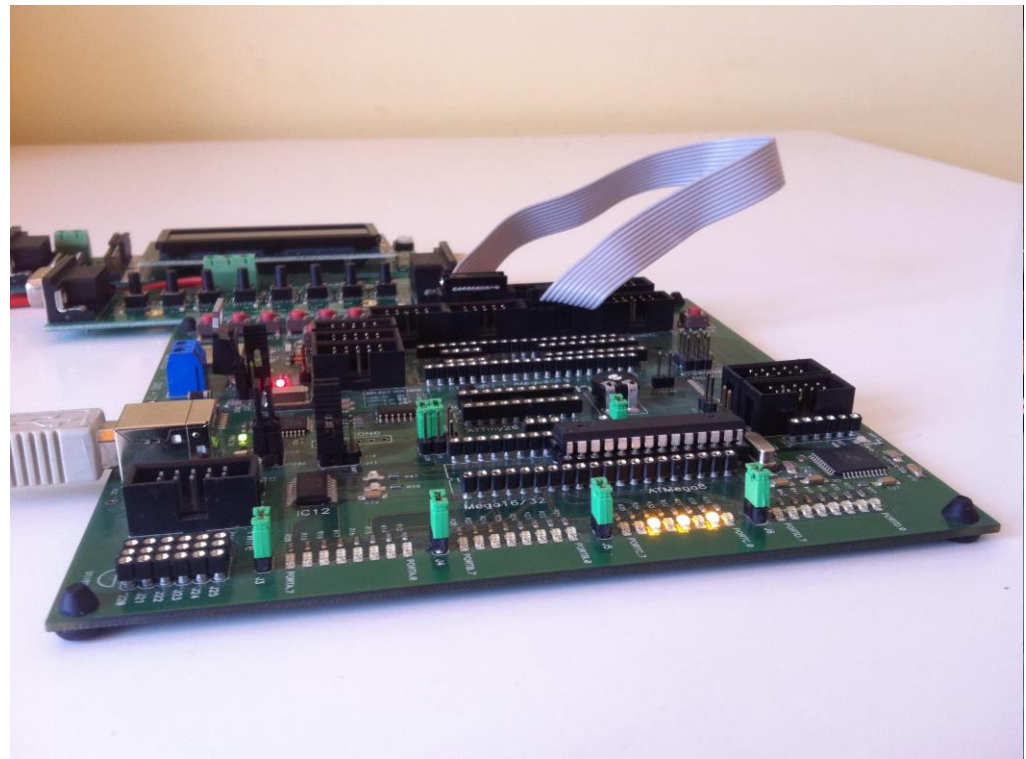
Curriculum:

- General subjects (43 %)
- Professional modules (theory and practice) (35 %)
- Open curriculum (theory and practice) (12 %)
- Extra-curriculum activities (7 %)
- Internship (3 %)

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Options:

- ENERGETICS
- AUTOMATICS
- ELECTRONICS



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General subjects:

- Native language
- Foreign language
- Math
- PE
- Physics
- Chemistry
- History
- Geography
- Sociology
- Psychology
- Art

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Professional modules:

- Common technical expertise that is typical for the entire field of electrical engineering.
- Additional professional knowledge characteristics for selected professional direction
 - energetics,
 - automatics,
 - electronics.

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ENERGETICS

- produce electricity (including alternative sources),
- design, manage and maintain electricity grids and markets,
- with the help of a computer, they design simple electrical installations,
- perform and maintain electrical installations and check the safety of electrical installations through measurements and tests,
- adjust parameters and drive various automation systems, including electric motors, and ensure efficient use of electricity.

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AUTOMATICS

- manage alternative energy sources and test and check the suitability of electrical appliances,
- design and implement wiring, assembly and connection of devices for automation and robotisation of production,
- use a personal computer as a measurement, test and control system in laboratory and industrial environments,
- manage control and regulation devices and control the operation of automated installations,
- perform electrical and other measurements and eliminate errors,
- programmable circuits and devices are planned and programmed.

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ELECTRONICS

- With the help of a computer, they design electronic circuits and devices and test their suitability,
- use a personal computer as a measurement, test and control system in laboratory and industrial environments,
- design, manufacture and programme microprocessor circuits and devices,
- select, service and install video and audio devices, antenna and cable systems,
- install and maintain information software, and advise users on the choice of hardware.

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Open curriculum:

- Depends on new ideas or economic, teachers and student... can be changed by years
- Offer in this school year:
 - communication
 - Professional arithmetics
 - Electrotechnical practicum
 - Implementing intelligent installation
 - Computer design

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Extra-curricular activities:

- activities
- competitions
- Excursions
- Research work
- International projects
- Optional teaching

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PUD – practical training - internship

- The purpose of PUD is to get to know the situation in practice.
- Students can find jobs either by themselves or by the school.
- It lasts 4 weeks in the third year



ELEKTRICAL ENGINEER

Electricity is our indispensable
mysterious companion.

Although we can not get it, it makes our lives warm,
bright and fun.