



Stredná priemyselná škola Dubnica nad Váhom
Obrancov mieru 343/1
018 41 Dubnica nad Váhom

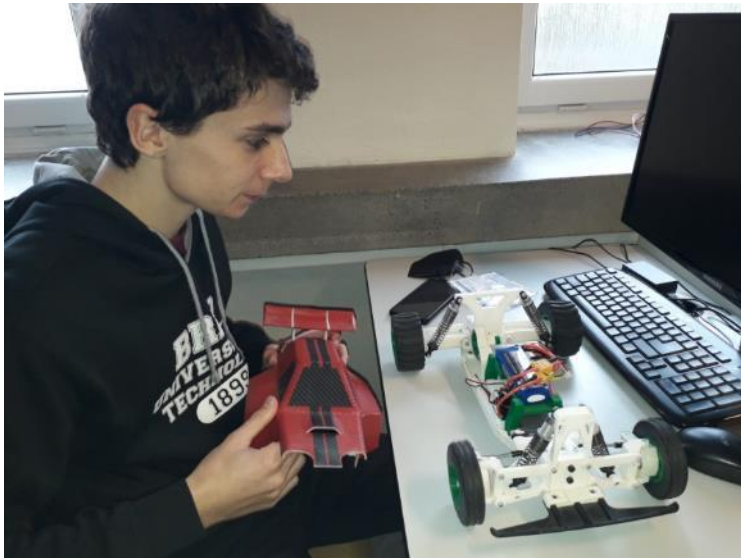


- The school is situated in Dubnica nad Váhom, in the Trenčín region.
- Our school has more than 74 years' history, was established in 1948
- We are one of the leading vocational schools in the region and in Slovakia
- The number of all graduates so far - 11000
- The number of students (aged 15-19) in the school year 2022/23 is **578**



Our students are educated and trained in four study courses:

- Mechanical Engineering, Electrical Engineering, Mechatronics, Technical and Information Services
- Four-year studies end with a school leaving examination (Maturita)
- Obligatory exam subjects –Slovak Language, English (B1/B2) vocational subjects
- The school supports inclusive education, and a separate study plan is created for students with special needs.



FIELDS OF STUDY (ISCED 3A)

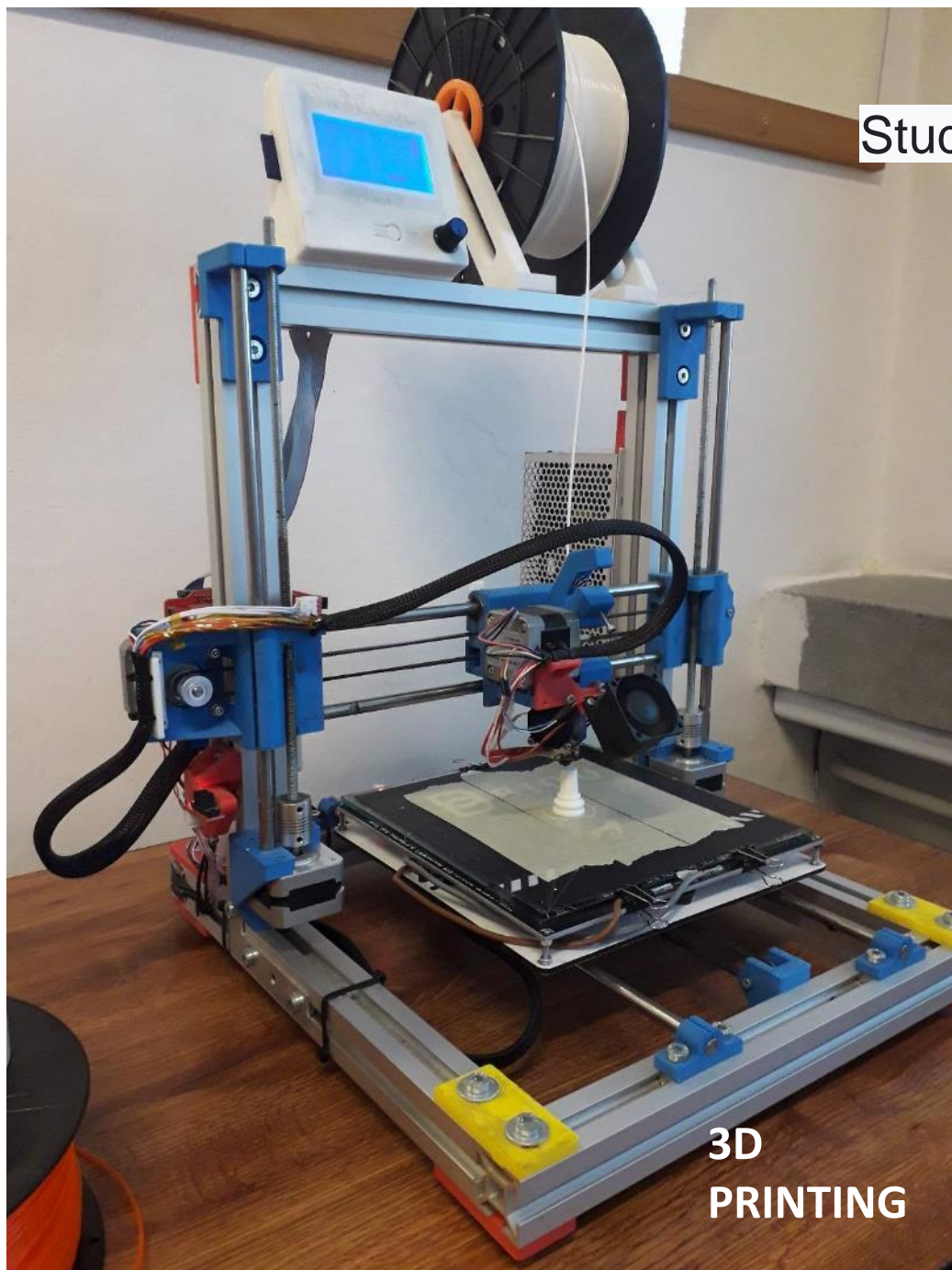
Mechanical Engineering focuses on:

engineering technologies, design, CNC machine programming, graphics systems and product measurement control.

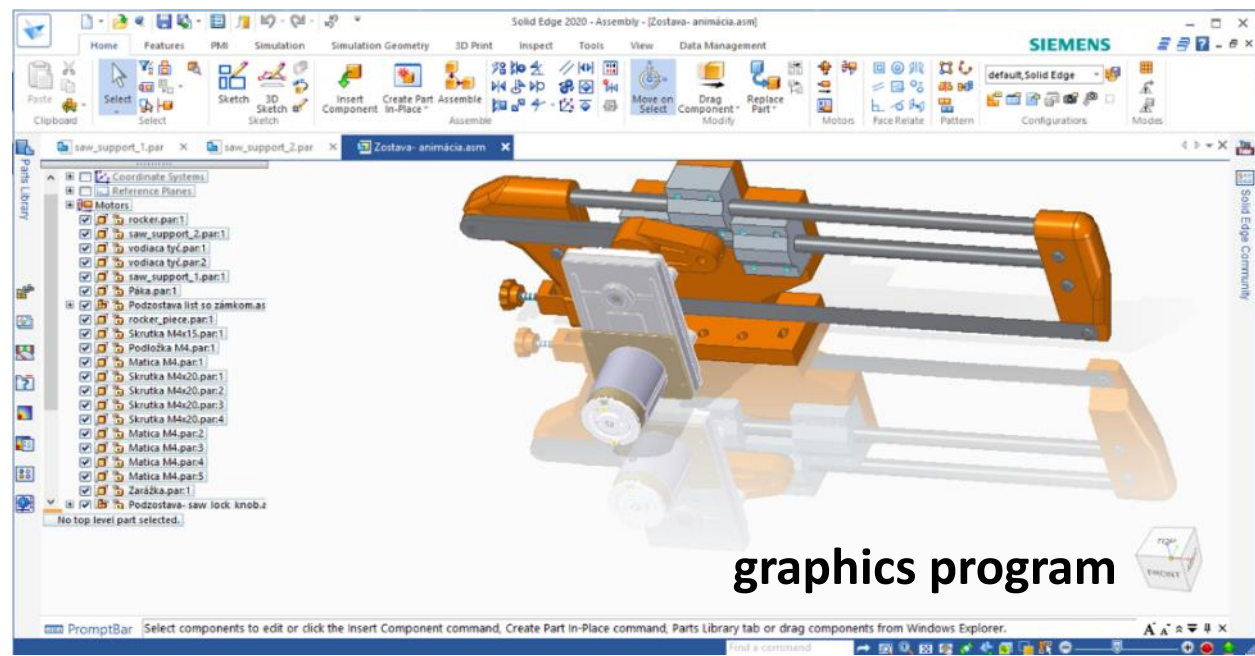
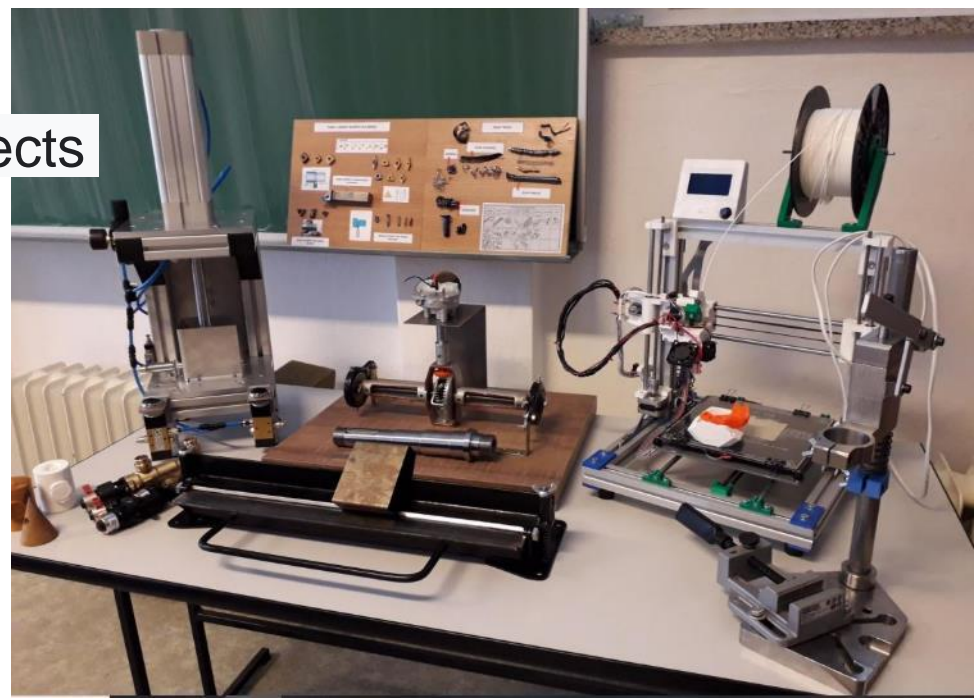
- The main professional subjects include technical drawing, construction, engineering technology, informatics , **CAD**, **CAM systems** (Solid Edge, Creo Parametric, NX), CNC machine programming (Sinutrain, NX, Heidenhain), control and measurement, mathematics, mechanics.
- Main students' activities include solving projects in the field of technology, construction, design and modeling of individual components
- Practical training takes place in the school workshops



Students' final projects



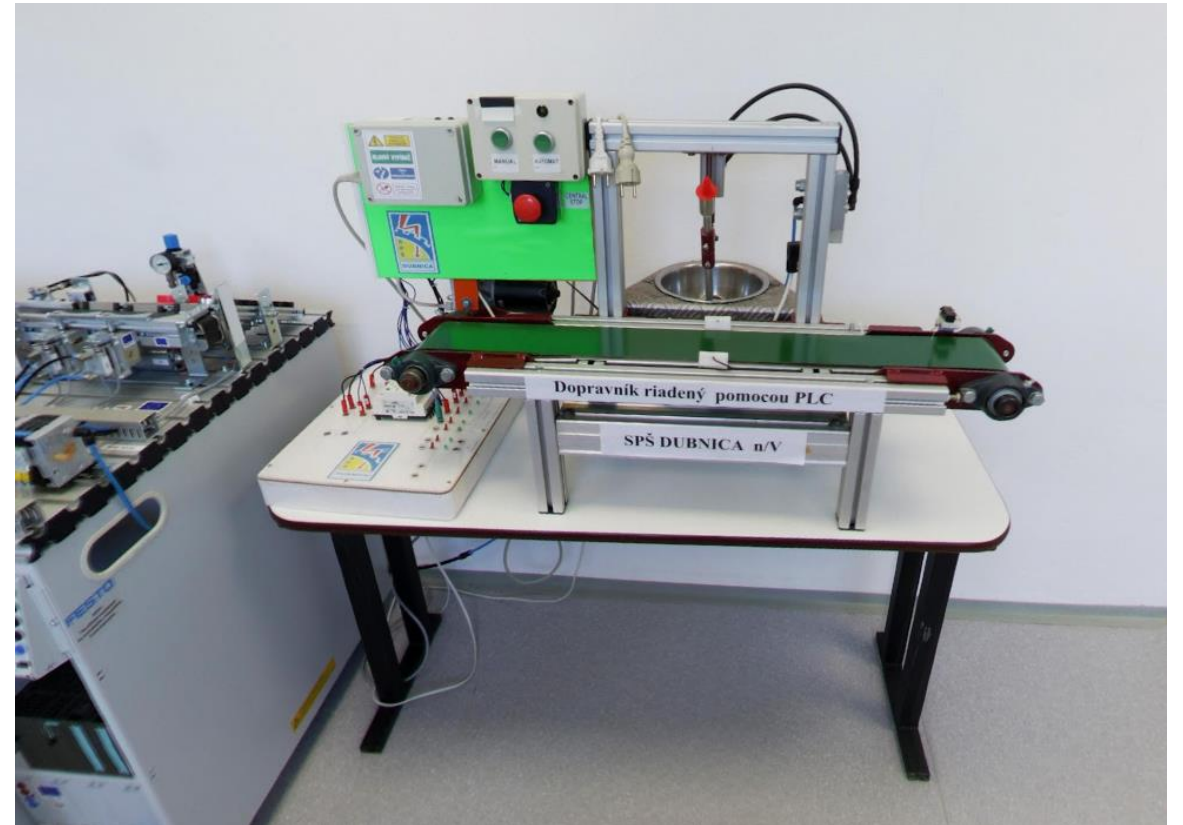
3D
PRINTING



graphics program

Mechatronics

- interdisciplinary field of study
- integrates the individual components of mechanical and electrical engineering
- focuses on programming of manufacturing processes, modeling in graphical programs,
- simulating using PC control technologies.
- students acquire basic knowledge of programming PLC systems, CNC machines and robots and 3D measuring, pneumatic and hydraulic systems.



Conveyor controlled by a PLC program

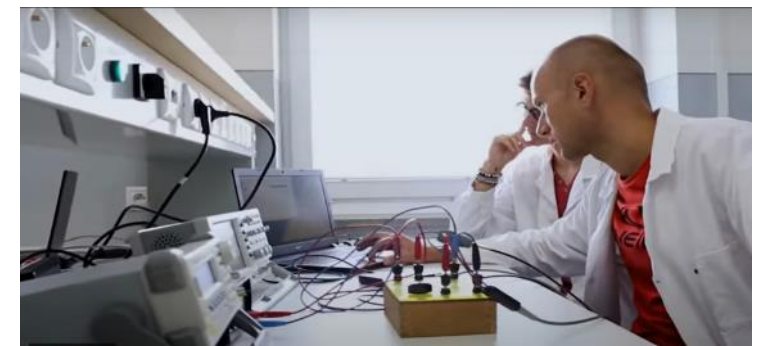
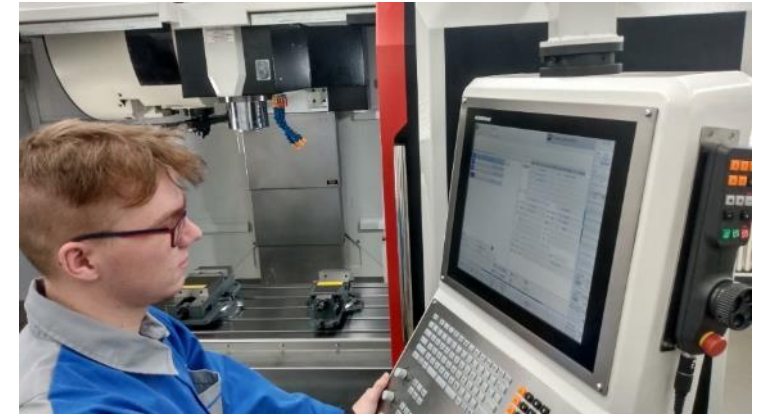
Electrical Engineering

- focuses on electrical engineering, electronics and computer technology, microprocessor technology, automation and electrical measurement
- power electronics concentrates on the design of power electronic devices,
- solving the problem of electric drives and their control
- The study program is strengthened by the subject graphic systems where they use graphic programs OrCAD, EIProCAD, EPLAN, AutoCAD, programming of single-chip microcomputers, PLC (programmable logic machines).



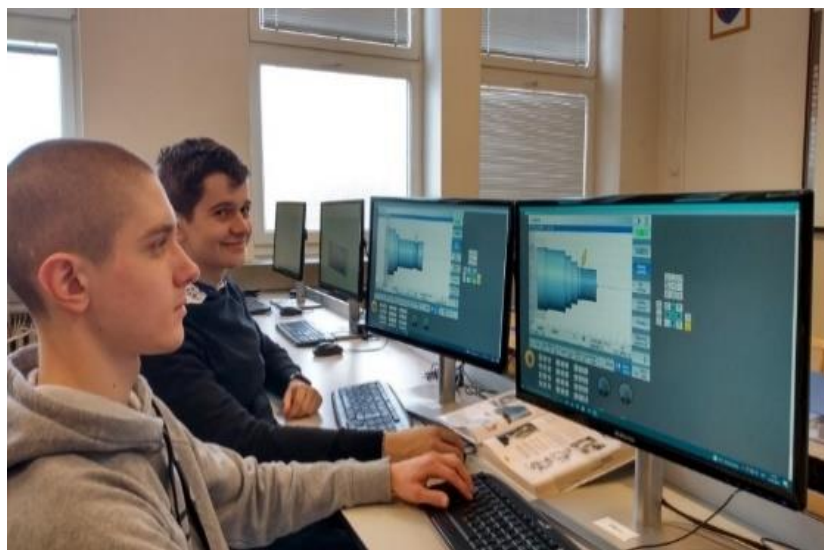
TECHNICAL EQUIPMENT OF THE SCHOOL

- The school has workshops with CNC machine tools, milling and turning machines
- control and measurement laboratories with 3D measuring equipment
- specialized laboratories for electrical engineering and automation
- computing centre and special computer rooms



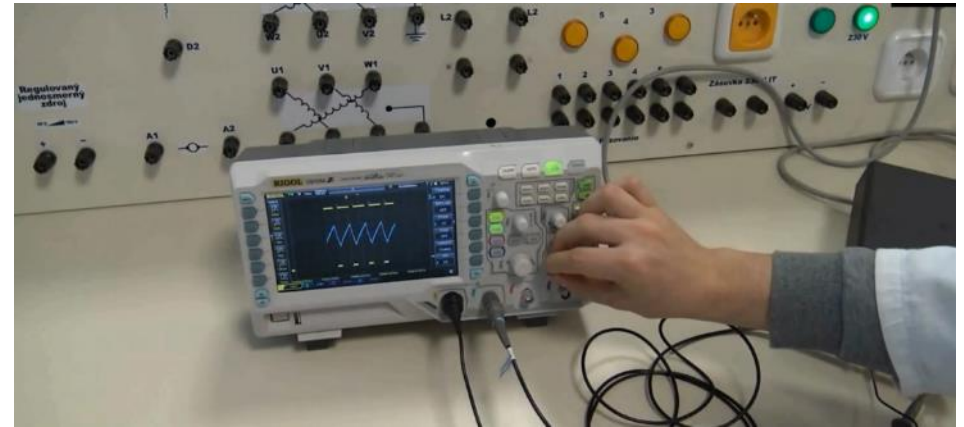
Teaching informatics and graphic systems

- specialist classroom with full computer and audio-visual equipment
- Used for teaching graphics programs such Auto CAD, Solid Edge, Creo Parametric
- Programming CNC machines – Sinutrain and NX CAM
- mechanical engineering construction



SCHOOL LABORATORIES

- Specialist electrical laboratories - used for teaching testing and measuring and automation



The school modernisation – the school management and teachers try to keep the process of teaching and learning as modern as possible

- The biggest modernisation was in the school workshops, which was partly financed by European funds
- The workshop premises were renovated and equipped with new machines - turning, milling machines, tools, gauges were bought
- Practical training process and the competence of pupils was improved



PROJECTS

My Machine - project funded by the Carpathian Foundation
The role of the project is to link primary, secondary school and university in the fulfilment of a child's dream. Last school year we solved the Hugo counter, which the children liked very much



COMPETITIONS



The students participate in various skills competitions with excellent results
the ZENIT competition (Mechanical Engineering)
first place in the district round and our student is going through to the national round.

Mechanical Engineering Olympiad





PARTNER 2
Stredná priemyselná škola v Dubnici nad Váhom



Daniela ŠPÁNIKOVÁ
Teacher of technical subject,
coordinator



Pavol PUTIRKA
Teacher of technical subjects



Mária SMETANOVÁ
Teacher of technical subjects



Tomáš PECKO
Teacher of technical subjects



Darinka MÁČADOVÁ
English language teacher

The role of our school in the project :

- cooperation with the universities and the development of education of students and teachers
- modernisation of the educational process by means of implementation of new technologies
- development of individual learning in the process of introducing new teaching methods in vocational subjects
- improve links with research and real work in education with support from universities
- improving skills in the field of innovative technologies and green technologies
- increase the success rate of graduates in the labour market

THANK YOU FOR YOUR ATTENTION