



Erasmus+



SPS
TECHNICKÁ
SPIŠSKÁ NOVÁ VES

2023

CNC technology and metrology



BERUFSSCHULE FÜR
FERTIGUNGSTECHNIK

Š O L S K I  C E N T E R

Š K O F J A L O K A

Who we are



Our countries and cities

Slovenia

- Surface: 20 273 km²
- Population: 2,1million
- Capital city: Ljubljana
- Currency: EUR
- Highest mountain: Triglav – 2864 m
- Languages: slovenian, hungarian, italian





Bled



Piran



Postojna



Ljubljana



Kranjska Gora

Škofja loka



- Surface: 4,48 km²
- Population: 11 619
- First mentioned in 973
- Region: Gorenjska
- Škofja Loka Castle



Slovakia

- Capital city: Bratislava
- Area: 49 036 km²
- Population: 5 441 899
- Currency: EUR
- Highest mountain: Gerlach shield 2655m above sea level
- Languages: slovak, czech, hungarian





Vysoké Tatry



Slovenský ráj



Spišský hrad



Bratislava

Spišská Nová Ves

- Surface: 66,67 km²
- Population: 35 431
- First mention: 1268
- Region: Košický
- Church of the Virgin Mary's Ascension



Germany

- Capital city: Berlin
- Area: 357 023 km²
- Population: 84 270 625
- Currency: EUR
- Highest mountain: Zugspitze 2 962m above sea level
- Languages: german





Brandenburger Tor



Holocaust-Mahnmal



Marienplatz



Koelner Dom

Munich

- Surface: 310,71 km²
- Population: 1 487 7002
- First mention: 1158
- Region: Bavaria
- Important monument: Frauenkirche



Czech republic

- Capital city: Prague
- Area: 78 867 km²
- Population: 10,51 milion (2021)
- Currency: CZK
- Highest mountain: Sněžka 1603m above sea level
- Languages: czech





Říp



Pražský hrad

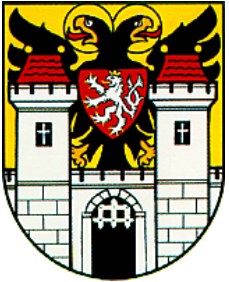


České Švýcarsko



Ještěd

Tábor



- Surface: 62,22 km²
- Population: 34 301
- Altitude: 437 m
- First mention: 1420
- Region: Jihočeský
- Church tower



Our program

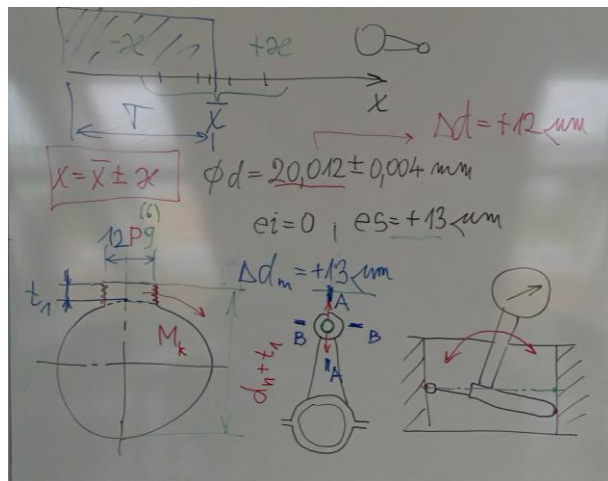
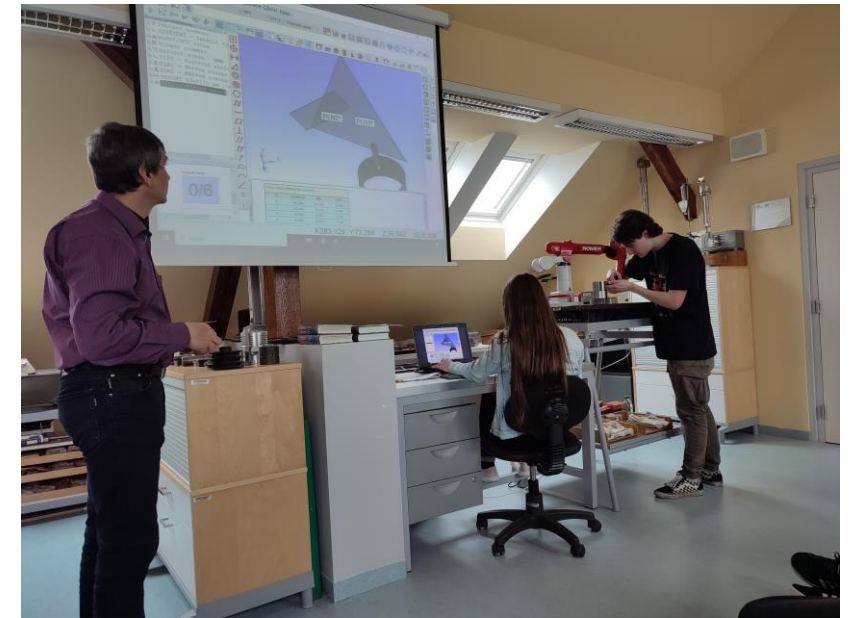
Programing

- CNC machine (Lathe, mill)
 - Cordinate systém, zero point shifting
- System of Heidenhain
- CNC program,cycles(SL cycles, pockets,...)
- Inventor CAM – program transferred to machine



Metrology

- Basic measurement
 - Equipment (caliper, gauge, cavity gauge,...)
 - Correct measuring principles
 - Measurement errors
- 3D arm
- Tolerance and manufacturing accuracy



Weekend and accompanying activities







Evaluation

- CNC-technology
- Metrology
- Tábor
- Brisk, Kovosvit





Conclusion

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THANK YOU
FOR
YOUR ATTENTION