DIGITAL CONTROL OF MACHINE TOOLS

INTRODUCTORY LECTURE

sl.dr.ing. Sorin HERLE

- MACHINE TOOLS
- NUMERICAL CONTROL
- CALCULATION
- PROGRAMMING
- ADVANTAGES AND DISADVANTAGES



THE COURSE CONTENT

- C1 Introduction to CNC machine tools (26.02.2024)
- C2 Basics of CNC programming (04.03.2024)
- C3 Programming the linear trajectories (11.03.2024)
- C4 Programming the circular trajectories (18.03.2024)
- C5 Programming the milling operations (25.03.2024)
- C6 Programming the pocket milling operations (01.04.2024)
- C7 Programming the drilling operations (08.04.2024)
- **C8** Programming the milling cycles (15.04.2024)
- **C9 Turning operations (22.04.2024)**
- C10 Programamming the turning operations (13.05.2024)
- C11 Programming the turning cycles (20.05.2024)
- C12 CAD-CAM systems (27.05.2024)
- C13 Summary of the course (03.06.2024)

BIBLIOGRAPHY

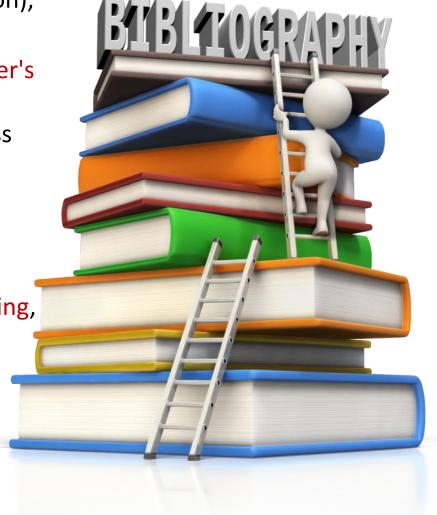
CNC Programming Handbook (3rd edition),
 Peter Smid, Industrial Press 2007

 CNC Programming Techniques: An Insider's Guide to Effective Methods and Applications, Peter Smid, Industrial Press 2005

 CNC Tips and Techniques, Peter Smid, Industrial Press 2013

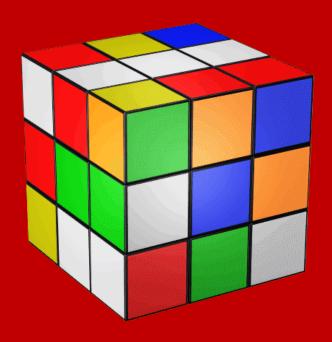
 CNC Programming Guide: A Beginner's Guide On How To Learn CNC Programming, Tammy L. Barraza, August 19, 2023

 Digital Control of Machine Tools, Sorin Herle, UTPRESS 2017



http://rocon.utcluj.ro/sorin

EVALUATION



50%

COURSE Post-lecture quizzes (10 choice question/quiz/lecture, 1 point /right answer) or EXAM(120 choice questions and exercises)

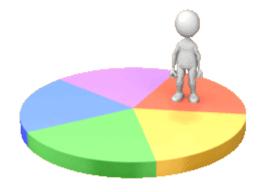
LABS 50%

12 laboratories evaluated at the end of each lab (50%)

A laboratory work is considered passed only if a minimum 50% of the maximum score is acquired.

Choice questions and exercises on the exam are not mandatory if from the post-lecture guizzes were accumulated at least 60 points.

The exam is considered passed ONLY if, for each component of the final mark was obtained at least 50% of the maximum score!



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