



VŠB TECHNICKÁ FAKULTA KATEDRA UJU UNIVERZITA STROJNÍ AUTOMATIZAČNÍ OSTRAVA

Conditions for exercise

- 80% participation in exercises
- Physically measure all practical measurements
- Submission of protocol
- Final exam (test)

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Classified credit

- Exercise
- Test 2 questions
- Practical example

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What do you find out??

- Content and outline of the course.
- Exercise content.
- Connecting stations in the laboratory.
- Description of used systems.

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Subject content

- Basic logical functions for solving sequential and combinational logical problems (repetition).
- Electronic interpretation of logical signals, unification of signals, galvanic separation... .
- Basic division and internal structure of PLC, description of individual parts, principle of network topology programming....
- Configuration of PLC-based control tasks, PLC configuration.

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Subject content

- Basic programming languages for PLC programming (ST, IS, LD...).
- Creating an application in the PLC development environment.
- Operation of peripherals, definition of priorities and time intervals of the entire application.
- Application communication with parent task using OPC servers.

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Subject content

- Single-chip computers of the PIC series (single-chip computer basic series PIC16F84A familiarization).
- Procedure for reviving created algorithms.
- Basic sequential logic tasks use of integrated circuits.
- Use of industrial networks in communication between PLCs.
- Space for a PhoenixContact PLC.
- Time reserve.

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Contents of the exercises, Part I Send the results within a week!!!!

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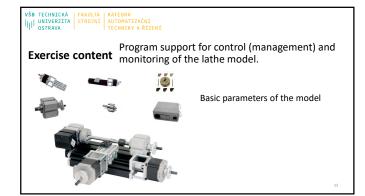
Contents of the exercises, Part I Realization of ...

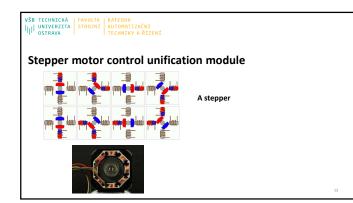
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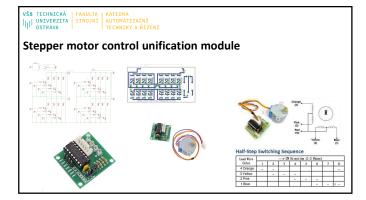
Contents of exercise II. part

AC500 programming software.

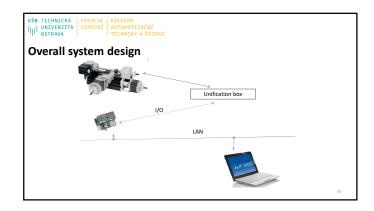
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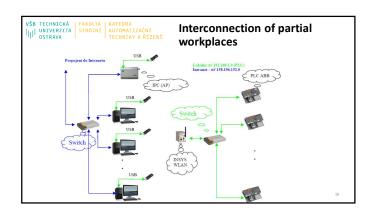








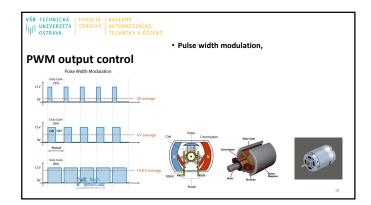




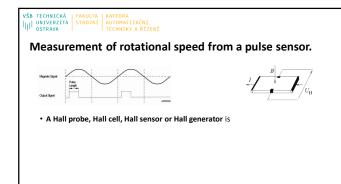


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Partial practical solution problems



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What did you learn?

- Content and outline of the course.
- Exercise content.
- Connecting stations in the laboratory.
- Description of used systems.

VŠB TECHNICKÁ FAKULTA KATEDRA Iviju univerzita strojní automatizační techniky a řízení	
Thank you for your attention	
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