Metal work/ Design Module

Content:

During the two weeks in school the students will develop a unique piece (for example a bowl)

Field trip to Italy on a workshop for founding a copper bar

Crafts based, experimental access to design processes and production possibilities



Four weeks of practical exercises in extern companies on real customer products

Duration:

6 weeks

Level:

Intermediate

Assessment:

skills demonstration with technical discussion

Participants:

2 European students + 4 German students

Responsible teachers:

Stefanie Heringer Sabine Straub

Contact:

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International Coordinator

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Modules:

Cobots:

Manfred Schauhuber

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Philipp Schott

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Moritz Sedlmeier

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Electric Drives Engineering

Hans-Jürgen Daurer

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Ralf Kluger

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PLC

Manfred Schauhuber, Philipp Schott, Moritz Sedlmaier, Email see Cobots

Metal work/ Design

Stefanie Heringer

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Berufsschule für Metall – Design – Mechatronik

Vocational School for Metal - Design - Mechatronics

Deroystraße1 80335 München bs-mdm@muenchen.de

Automation/ Electrical Engineering

Metal Construction





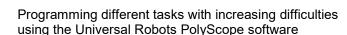


Cobots Module

Content:

Analyzing the basic functions of collaborative robots and safety issues

Understanding the program sequences of robots



Integration of several robots into one production unit

Interaction between the robots and human beings

Duration:

2 weeks at college

Level:

Advanced

Assessment:

paper & pencil test skills demonstration with technical discussion

Participants:

8 European students + 8 German students

Responsible teachers:

Philipp Schott Moritz Sedlmeier Manfred Schauhuber



Electric Drives Engineering Module

Content:

Programming an asynchronous motor including frequency converter

Setting up a gate control with a star-delta start-up on a test stand

Optional the gate control

with reversing contactor can be replaced by the produced PCB - printed circuit board (soldered at partner school Technická akadémia - Spišská Nová Ves/ Slovakia)

Discussing operating characteristics and characteristics of drives limits operation

Machine testing according to the European standard EN 60204 is explained and carried out

Duration:

2 weeks at college

Level:

Advanced

Assessment:

paper & pencil test, skills demonstration with technical discussion

Participants:

6 European students + 6 German students

Responsible teachers:

BS MDM:

Hans Jürgen Daurer, Ralf Kluger

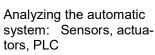
Technická akadémia:

Radoslav Hatala, Miloš Sokol (PCB - Manufacturing)

PLC Programming Module

Content:

Analyzing, programming and bringing an automatic system into service; controlled by Siemens S7300 CPU; programmed with TIA V13



Planning the process

Applying the hardware configuration

Programming with sequence chain - online monitoring of the process

Diagnosis and troubleshooting, bringing the automatic system into service

Duration:

1.5 weeks at college

1.5 weeks at company

Level:

Advanced

Assessment:

paper & pencil test, skills demonstration with technical discussion

Participants:

8 European students + 8 German students

Responsible teachers:

Philipp Schott Moritz Sedlmeier Manfred Schauhuber



