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 Korbinian Angermeier



Ralf Kluger Principal

Tel: +49 89/233-35598

E-mail:

ralf.kluger@muenchen.de

Josef Baudrexl Deputy Principal

Tel: +49 89/233-35520

E-mail:

Josef.baudrexl@muenchen.de

Christina Murphy

International Coordinator

Tel: +49 89/233-35581

christina.murphy@bsz-derov.muenchen.musin.de

Modules:

Cobots:

Moritz Sedlmeier moritz.sedlmeier@bsz-derov.muenchen.musin.de

Electric Drives Engineering

Hans-Juergen Daurer

hansjuergen@bsz-deroy.muenchen.musin.de

RAISE VET

Peter Schrever

peter.schrever@bsz-deroy.muenchen.musin.de

Metal work/ Design

Stefanie Heringer

stefanie heringer@bsz-derov.muenchen.musin.de





Berufsschule für Metall - Design - Mechatronik

Vocational School for Metal - Design - Mechatronics

Deroystraße1 80335 München www.mdm-deroy.musin.de/

Automation/ Electrics

Metal Construction Modules





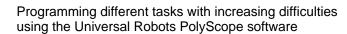


Cobots Module

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:

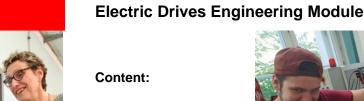
paper & pencil test skills demonstration with technical discussion

Participants:

8 European students + 8 German students

Responsible teachers:

Philipp Schott Moritz Sedlmeier Manfred Schauhuber



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



2 weeks at college

Level:

Advanced

Assessment:

paper & pencil test, skills demonstration with technical discussion

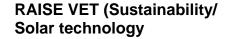
Participants:

6 European students + 6 German students

Responsible teachers:

BS MDM:

Hans-Jürgen Daurer, Anke Plöckl, Gerhard Seemüller



Content:

Raising awareness of sustainable behavior towards our environment

Identifiying renewable energy sources, such as wind, water and mainly solar technology.

Carry out current and voltage measurements with a solar energy kit to create a characteristic curve with its max-

Diagnosis and troubleshooting, bringing the automatic system into service

imum power point and compare provided examples.

Duration:

1 week virtual module 2 weeks at college

Level:

Beginner

Assessment:

paper & pencil test, skills demonstration with technical discussion

Participants:

8 European students + 8 German students

Responsible teachers:

Peter Schrever Cornelia Lotter Elke Höhnberg







