

*Project Based Learning at  
CAMPUS 02 UAS Degree Programmes in  
Automation Technology  
International Professional Conference  
ME4CataLOgue, Slavonski Brod, Croatia*



# Talking to you

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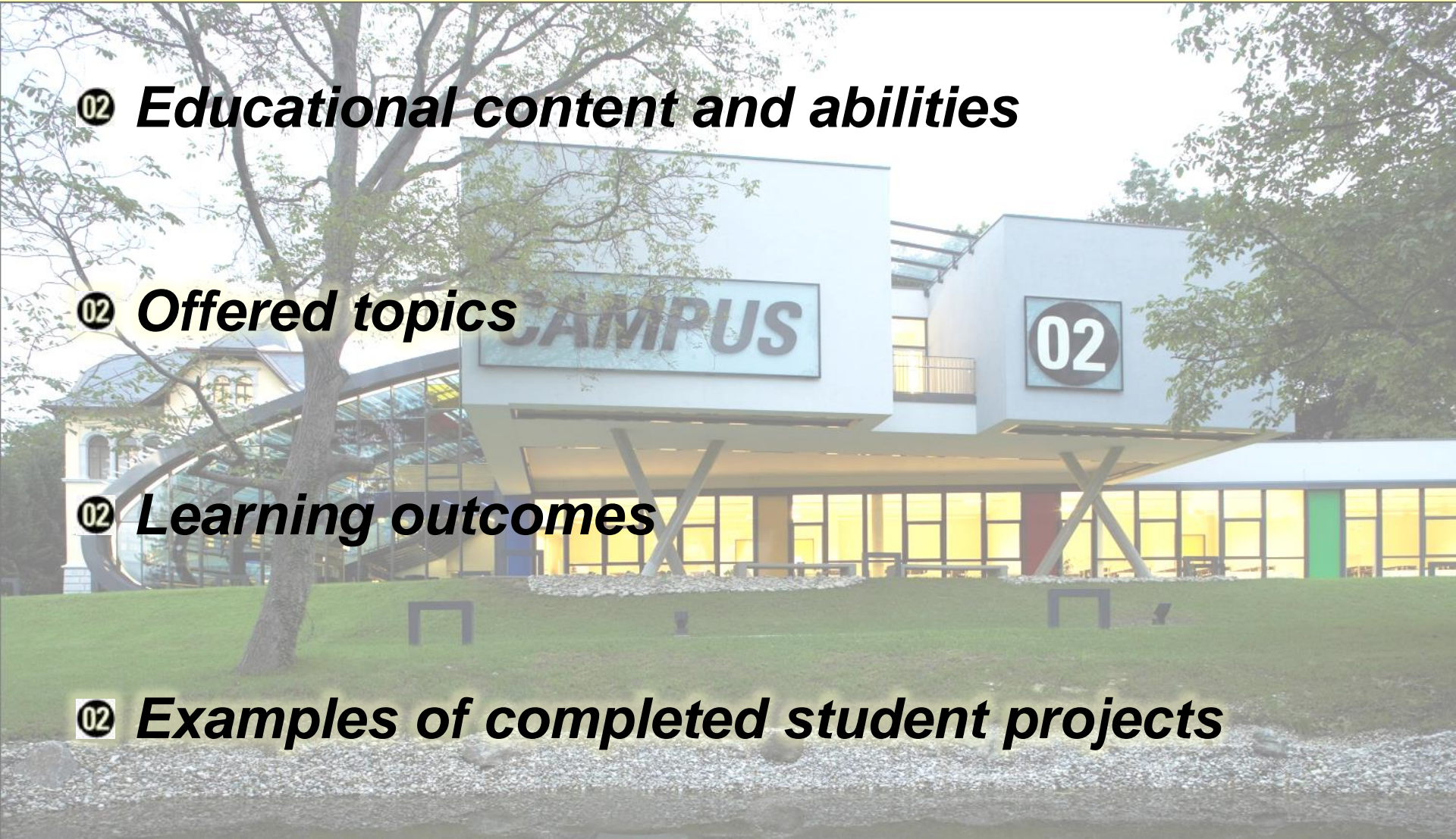
# ***PBL - Elective Accompanying Projects***

**02 Educational content and abilities**

**02 Offered topics**

**02 Learning outcomes**

**02 Examples of completed student projects**



# Degree Programmes at **CAMPUS 02** UAS

**Part-time**

02 ***Automation Technology***

02 ***Information Technologies & Business Informatics***

02 ***Innovation Management***

**Part-time  
&  
Full-time**

02 ***International Marketing & Sales Management***

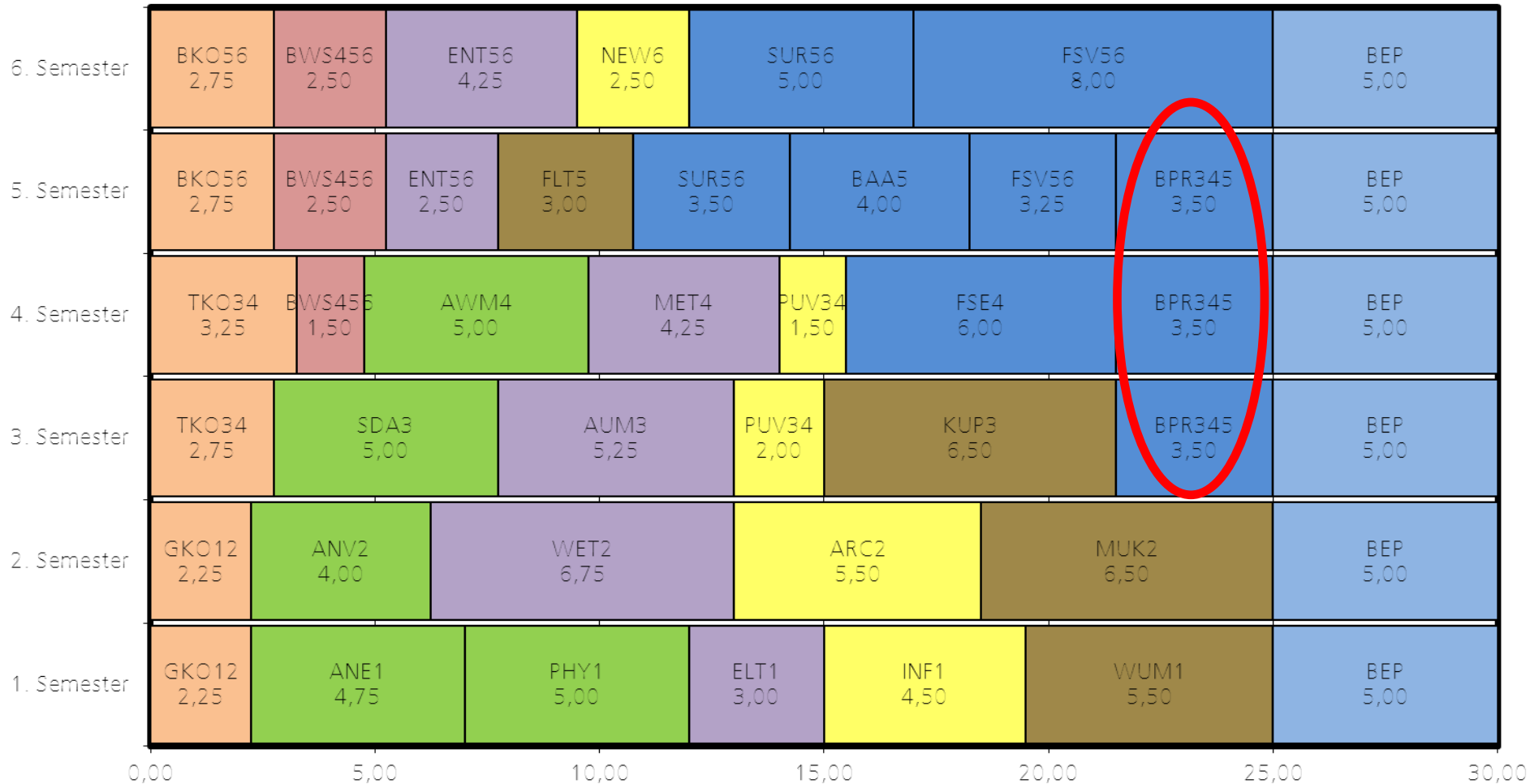
02 ***Management & Financial Accounting***

# ***Educational content and abilities of the students***

- ② *3., 4. & 5. Semester*
- ② *three of potential project themes, edit each one of these topics for a semester*
- ② *fundamental topics as well as specific tasks in their professional environment to work as part of their project*
- ② *promote individual professional stamping of students according to their personal interests and / or professional needs.*
- ② *personal and social- communicative competencies, focus in self-assessment, self- organization and critical reflection (e.g., evaluation of the results of the project), target and relationship oriented work in the group*

# Graphical presentation of the subject areas and modules

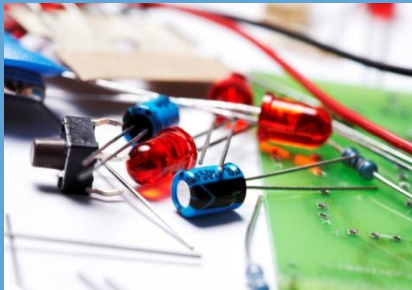
Graphische Darstellung der Fachbereiche und Module



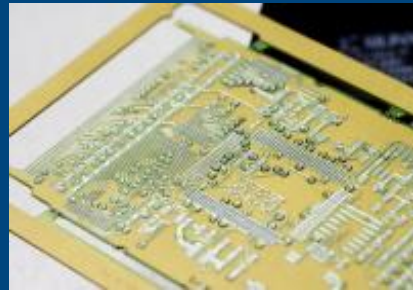
# Core skills

## Automation Technology

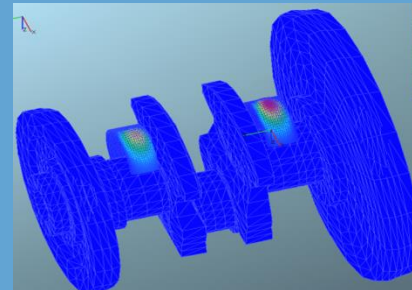
### Electrical Engineering



### Information Technology



### Mechanical Engineering



### Economics



# Offered topics

- ② *CAN (Controller Area Network) Bus systems*
- ② *PC Interface Technology*
- ② *PLC (Programmable Logical Controller) systems*
- ② *LabView*
- ② *RFID (Radio Frequency Identification)*
- ② *Microcontroller Technology*
- ② *Mechatronics and Robotics*
- ② *Virtual Process Planning, CAM*

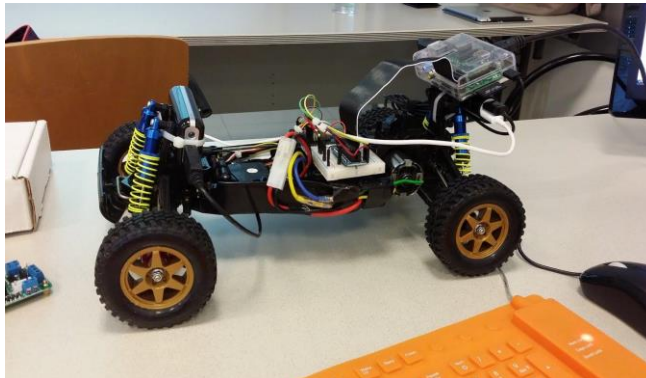
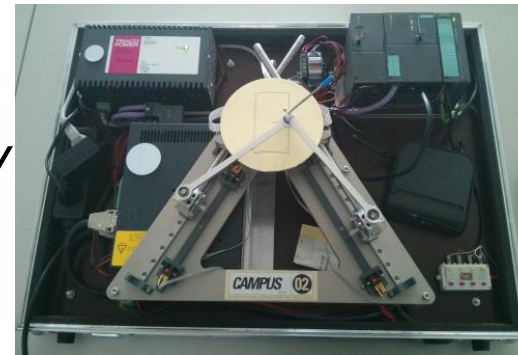


# Learning outcomes for the students

- ⑫ *acquire and apply detailed knowledge and deeper knowledge, through appropriate practical exercises*
- ⑫ *design, develop and carry out projects*
- ⑫ *define a technical task, estimate the time frame and process the tasks in the form of a project*
- ⑫ *divide work among multiple people and define clear interfaces between the work areas*
- ⑫ *implement practical work and work in groups*
- ⑫ *acquire new knowledge for the solution of the project independently*
- ⑫ *summarize and document the results*
- ⑫ *prepare and present a finished technical project to a professional audience in an appropriate final presentation*

# Examples of completed student projects

- 02 *Force measurement by KUKA robot*
- 02 *CAN Bus analyzer*
- 02 *Object information using NFC*
- 02 *Remote controlled car by Raspberry*



# **CAMPUS 02 UAS / Degree Programmes in Automation Technology**



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