

Teaching activities and project contribution

MISCE project

Mechatronics for Improving and Standardizing Competences in Engineering



Competence: Automation Technology

Workgroup: University of Cagliari

University of Cassino and Southern Lazio



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Mechatronics for Improving and Standardizing Competences in Engineering, MISCE
Competence: Automation Technology
Document: Teaching activities

This document describes the teaching activities developed during MISCE project related to the competence “Automation Technology”

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1 Teaching activities

The teaching activities undertaken are described below:

- Activity A: Using the “Test-Bed” to identify the correct procedure to connect the PC and the PLC.
- Activity B: Using the “Test-Bed” to upload the software on the PLC.
- Activity C: Using the “Test-Bed” to change the speed of the pneumatic cylinder.



2 Summary of teaching interventions

Table I summarizes the teaching interventions undertaken using the Test-Bed for contributing to Automation Technology competences.

Table I. Summary of teaching activities

University	Degree	Subject	Course	Semester	Activity/Interventions	Number of students	Number of professors
University of Cagliari (Cagliari, Italy)	Mechanical Engineering	Mechatronics	23/24	2	A/1; B/1; C/1	20	1
University of Cagliari (Cagliari, Italy)	Mechanical Engineering	Industrial Robotics	23/24	2	A/2; B/1; C/1	5	2
University of Cagliari (Cagliari, Italy)	Mechanical Engineering	Mechatronics	24/25	2	A/1; B/1; C/1	22	1
University of Cagliari (Cagliari, Italy)	Mechanical Engineering	Industrial Robotics	24/25	2	A/2; B/1; C/1	6	2



3 Contribution to the project KPIs

Table II summarises the contribution of “Automation Technology” case of study to the project KPI.

Table II. Summary of the contribution to the project KPI

KPI	No.
Number of devices	1
Number of competencies covered for these devices	1
Functionality of the digital repository	1
Number of degrees	1
Number of subjects	5
Number of teaching interventions over the students	12
Number of competences covered in these experiences	1
Number of students involved	55
Number of HEIs teacher involved	3
Number of Professionals involved	1