

# Teaching activities and project contribution

## MISCE project

Mechatronics for Improving and Standardizing Competences in Engineering



Competence: Robotics

Workgroup: Universidad de Castilla-La Mancha

Universitat Politècnica de València



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This document describes the teaching activities developed during MISCE project related to the competence 'Robotics'.

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# 1 Teaching activities

The teaching activities undertaken are described below:

- Activity A: Using a robotic hand platform mounted on an industrial arm to study grasping strategies, coordinate robot motion and hand actuation, and evaluate the effectiveness of object manipulation in real conditions.



## 2 Summary of teaching interventions

Table I summarizes the teaching interventions undertaken using the Robotic hand platform for contributing to Robotics competences.

Table I. Summary of teaching activities

University	Degree	Subject	Course	Semester	Activity/Interventions	Number of students	Number of professors
University of Castilla-La Mancha (Toledo, Spain)	Industrial Electronics and Automation Engineering	Industrial Robotics	23/24	2	A/2	20	2
University of Castilla-La Mancha (Toledo, Spain)	Industrial Electronics and Automation Engineering	Industrial Robotics	24/25	2	A/2	24	2



### 3 Contribution to the project KPIs

Table II summarises the contribution of 'Robotics' 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	1
Number of teaching interventions over the students	2
Number of competences covered in these experiences	1
Number of students involved	44
Number of HEIs teacher involved	2
Number of Professionals involved	2