

Teaching activities and project contribution

MISCE project

Mechatronics for Improving and Standardizing Competences in Engineering



Competence: Mechanical Engineering

Workgroup: Universidad de Castilla-La Mancha



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Competence: Mechanical Engineering
Document: Teaching activities

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

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1 Teaching activities

The teaching activities undertaken are described below:

- Activity A: Using the four-bar mechanism platform to analyse position, velocity and acceleration in the kinematic analysis of planar mechanisms.
 - Activity A1: Introduction to the platform.
 - Activity A2: Position analysis of a four-bar mechanism.
 - Activity A3: Velocity analysis of a four-bar mechanism.
 - Activity A4: Acceleration analysis of a four-bar mechanism.



2 Summary of teaching interventions

Table I summarizes the teaching interventions undertaken using the Four-bar mechanism platform for contributing to Mechanical Engineering competence.

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)	Aerospace Engineering	Machines and Mechanism	24/25	1	A/4	72	1



3 Contribution to the project KPIs

Table II summarises the contribution of 'mechanical systems' 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	4
Number of competences covered in these experiences	1
Number of students involved	72
Number of HEIs teacher involved	1
Number of Professionals involved	1