UCLouvain

lepl1501

2021

Project 1

5.00 credits	30.0 h + 30.0 h	Q1

Teacher(s)	Bollen Xavier (compensates Raucent Benoît) ;Pecheur Charles ;Raucent Benoît ;Soares Frazao Sandra ;
Language :	French
Place of the course	Louvain-la-Neuve
Learning outcomes	**At the end of this learning unit, the student is able to :** 1 At the end of the course the students will be able to: • to use technical drawing (by hand) as a design and communication tool: 2D plan and simple perspectives (cavalier and axonometric). • to build a kinematic model of a mobile robot, to compute internal efforts of a simplified robot model, to measure torques and internal frictions, to measure power and work produced by robot motors, to establish a balance of electrical and mechanical energy. • to develop and test a JAVA program that allows the robot to perform, at scale, arbitrary manoeuvers and trajectories. The project aims at developing the following cross-cutting skills: • Working in team to carry through an engineering-type project. • Carrying a multi-disciplinary project. • Exercising scientific research practices. • Communicate verbally in an efficient manner. • Communicate in writing in an efficient manner. • Self-appraise with respect to target training objectives in order to progress.
Evaluation methods	Oral presentation of the teamwork, with a synthetic visual support. Individual exam.
Teaching methods	Project based learning
Faculty or entity in charge	BTCI

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Engineering	FSA1BA	5		🔍