Faculty of Applied Sciences

MECA2455   Computer aided manufacturing.

[30h+15h exercises] 4 credits

This course is taught in the 2nd semester

Teacher(s):   Jean-François Debongnie
Language: French
Level: Second cycle

Aims

Training students to the design and use of computer aided manufacturing.

Main themes

General concepts of machine tool numerical control.
ISO programming.
Manufacturing dimensions and tolerances, process simulation.
Computer aided choice of culting conditions.
Computer amputation of the actual shape of the work, owing to fixations and cutting forces.
Computer aided metrology.

Content and teaching methods

Oral taching and projection on the computer. One of these leads to actually produce a work (group of 2 persons).

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Evaluation :
oral exam and project reports.

Other credits in programs

ELME23/E	Troisième année du programme conduisant au grade d'ingénieur civil électro-mécanicien (énergie)	(4 credits)
ELME23/M	Troisième année du programme conduisant au grade d'ingénieur civil électro-mécanicien (mécatronique)	(4 credits)
MECA22	Deuxième année du programme conduisant au grade d'ingénieur civil mécanicien	(4 credits)