

## Industrial Engineering



### SCHOOL

Polytech Graduate School of  
Engineering



### CAMPUS

Belle-Beille



### LEVEL

Engineering 3rd year



### OPEN TO EXCHANGE STUDENTS

Yes



### SEMESTER

Spring (S2)

> **Degree course:** Quality, Innovation and Reliability Engineering

> **Teaching unit:** Engineering Science

> **Course language:** English

> **Duration (hours):** 32

> **ECTS:** 1

> **Teacher(s):** Cécile Gros

#### > **Assessment:**

Continuous assessment

Final exam

#### > **Teaching methods:**

Lecture course 1.33 hours

Tutorial course hours

Practical work 18.67 hours

Case study

Project

## COURSE DESCRIPTION

Following an introductory session, the course is divided into 5 different elements for the students.

4 hours of practical work: the Kanban (game)

4 hours of practical work: the PERT chart (game)

4 hours of practical work: Reversed class

Part 1: the students (in groups of 3) prepare a mini-course (1 page A4 - recto-verso + 1 presentation of 15 minutes) on one of the following topics: Stock, Production - cost, Supply, Scheduling, Kanban, Physical distribution, Detailed production planning, Reverse - logistics -

4 hours of practical work: Reversed class

Part 2: the students (in groups) present their courses to the other students

2.67 hours of practical work: Reversed Class

Part 3: Students assess their knowledge through a board game type - questions / answers (questions / answers are done by each group during the Reverse Classroom - Part 1 session)

## OBJECTIVES

To give students a global view of industrial management

## PREREQUISITES

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## SELECTIVE BIBLIOGRAPHY

« Manuel d'organisation appliquée : Reconcevoir les processus et coordonner les activités ». Jacques Herard, Edition Dunod

Techniques de l'ingénieur : section Génie industriel/Management industriel