

MGT-707

Product lifecycle management - concepts methods and tools

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Cursus	Sem.	Type
Advanced Manufacturing		Opt.
Robotics, Control and Intelligent Systems		Opt.

Language of teaching	English
Credits	4
Session	
Exam	Oral presentation
Workload	120h
Hours	46
Courses	20
Exercises	8
TP	18
Number of positions	

Remark

Next time: Fall 2021

Summary

The course "Product Lifecycle Management - concepts methods and tools" studies the concept and application of product lifecycle management over the whole product lifecycle.

Content

The main topics composing this course are the following:

1. Introduction to PLM and related Emerging Technologies
2. Beginning of Lifecycle (BOL) management
3. Middle of Lifecycle (MOL) management
4. End of Lifecycle (EOL) management
5. Information modeling approaches, techniques and tools
 - Students work in groups on projects using modeling tools on specific industrial case studies
6. Introduction to Petri net modeling and tools including Workflow nets, Coloured Time Petri Nets and Process Planning Petri Nets
 - Students work in groups on projects using appropriate Petri net tools on specific industrial case studies
7. Best practice of Product Embedded Information Devices (PEID) on a Closed Loop Lifecycle Management industrial case study

Keywords

PLM, product modeling, information modeling, Petri nets, decision making