PLM - MAQUETTE NUMÉRIQUE

PLM - DIGITAL MOCKUP

Lecturers: **Didier LACOUR**

| Lecturers : 6.0 | TC : 4.0 | PW : 0.0 | Autonomy : 4.0 | Study : 18.0 | Project : 0.0 | Language : FR

Objectives

Knowledge of the industrial process of product development in a PLM (Product Lifecycle Management) context, from the digital mockup, the application softwares, the collaboration and the management of data, using the Information system of the Company.
- give elements necessary for the analysis of the industrial practices in the field of PLM, integrated in the Information system of the Company

Keywords : PLM (Product Lifecycle Management), CAD, SGDT, Information System, Catia, Digital Mockup,3Dexperince

Programme	Global information system of the Company: needs and technical Architecture. Development of product in a PLM context. PLM environment: project, project team, containers, process, workflow, life cycle Advanced mockup, knowledge, automation (macros) 3 case studies : - Vertical application (integration of conception / production – example : folded cut sheet steel-, unicity of information, coherence of information) - Automations of Catia tasks with macro and programming - bases of the tool Catia V5, V6 3D Experience : small-project: application on cases using
Learning outcomes	• Know how the digital mock-up serves as a basis for the industrial process, and PLM for its management. • Be able, mainly with the digital model, to start to insert itself into the industrial process of a company. • Knowledge of basic PLM tools, with Catia V5, V6 3D experience, very present in the industrial environment
Independent study	Objectifs : Bases of the tool Catia V5, V6 3Dexperience Méhodes : ExperienceSmall-project: application on cases using the concepts, the tools and the methods of application softwares and PLM
Core texts	Denis Debaecker, *LE PROJET PLM PAR L'EXPÉRIENCE*, Hermes, 2013 Dassault Aviation *L'ENTREPRISE NUMÉRIQUE*, http://www.dassaultaviation.com/fr/dassault-aviation/innovation/lentreprise-numerique, 2015 Dassault Systems*3DEXPERIENCE*, www.3ds.com, 2021
Assessment	Final mark = Written report of small-project and active participation