

## SPIM-GM-906 Simulation of production systems

**Master Degree : Mechanical Engineering and Materials sciences**

**Reference number : SPIM-GM-906**

Title of the subject : **Simulation of production systems**

University component : **UFR MIM**

Coordinating lecturer : **JM Philippe** : [jean-marc.philippe@univ-lorraine.fr](mailto:jean-marc.philippe@univ-lorraine.fr)

Semester : **Autumn**

Total hours of classes : **30h**                      ECTS credits : **2**

Teaching language : French

Course proposed in English for exchange students : No

Course composition	Coef.	Number of hours		
		lectures	Tutorials	Practical works
Simulation of production systems		6		24

**During their professional activity, students will with the aim of an optimizing or simulating, model an automated production system**

**Prerequisites** : having followed a program like a Master1 I2M

**Skills to acquire**

Being capable of modelling and of simulating a real system on a simulation software

**Knowledge associates with skills**

Define the modelling architecture on simulation software

Model a real system

Analyze the solutions of scénarii allowing to validate the behavior of the system

**Course syllabus**

Finding out about the simulation software's fonctionnalités

System analysis and expected behaviour analysis

Research for possible modeling solutions

Application and critical analysis of the obtained results

**Evaluation :**

The evaluation will lead to assessments on various aspects of modelling, as well as on the work done.