

SPIM-GM-907 Study of automated production systems

Master Degree : Mechanical Engineering and Materials sciences

Reference number : SPIM-GM-907

Title of the subject : **Study of automated production systems**

University component : **UFR MIM**

Coordinating lecturer : **P. Gervais** : patrick.gervais@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
Sequential command		6		24

During their professional activity, students may have to intervene on automated installations and to analyze their performances

Prerequisites : having followed a program like a Master1 I2M

Skills to acquire

Being capable of programming an industrial automaton and of choosing technological components adapted to a problem

Knowledge associates with skills

Acquire the knowledge of the API

Know the automaton programming structure and the associated languages

Course syllabus

Programming of automatons

Creation of Grafcet

Study of the GEMMA

Evaluation :

Written examination and continuous assessments.