

SPIM-GM-903 Technical Study of Synthesis

Master Degree : Mechanical Engineering and Materials sciences

Reference number : SPIM-GM-903

Title of the subject : **Technical study of synthesis**

University component : **UFR MIM**

Coordinating lecturer : **JM Philippe** : jean-marc.philippe@univ-lorraine.fr

Semester : ***Autumn***

Total hours of classes : **60h** ECTS credits : **8**

Teaching language : French

Course proposed in English for exchange students : No

Course composition	Coef.	Number of hours		
		lectures	Tutorials	Practical works
Technical Study				24
Technical deepening 1				16
Technical deepening 2				10

During their professional activity, students will develop projects in autonomy, monitor technological developments, implement experiments and take account the aspects of environment, security and ergonomics.

Prerequisites : having followed a program like a Master1 I2M

Skills to acquire

Being capable of developing a project, of defining the limits of the study and the needs of the customer, and of implementing processes and experiments allowing to comply with certain requirements

Knowledge associates with skills

Define an argued solution of conception and manufacture

Define and implement an experimental device

Find documentation, give a presentation and organize a discussion around the solution

Analyze the solutions adopted and compare them according to a few criteria

Course syllabus

Adapted according to the research lad and of the problem resolve

Evaluation :

Oral presentations and written work on the studied topic and evaluation of the work