

Academic year 2024/2025

Courses offered by the programme

Génie Mécanique et Automatique (GMA) Mechanical and Control Systems Engineering

Semester(s) :

Curricula are organized in groups of courses (Unités d'Enseignement (UE)), consisting of several courses (Eléments Constitutifs (EC)). An EC is a teaching module including lectures (cours magistraux (CM)), tutorials (travaux dirigés (TD)), laboratory work (travaux pratiques (TP)), projects (PR), conferences (CONF), personal work (TA) and possibly other pedagogical activities (DIV). Some internships (stages (ST)) are compulsory

Commonly used abbreviations

**CM : Lectures
TD : Tutorials
TP : Laboratory Work
CONF : Conferences
TA : Personal Work
PR : Project
ST : Internship
DIV : Miscellaneous**

Production and Quality Control Management	GMA08-PROD
Number of hours : 28.00 h	2.00 ECTS credit
CM : 14.00 h, TD : 14.00 h	
Reference Teacher(s) : SORRE Frederic	

Objectives :

To manufacture, in accordance with requirements, low-cost, high-quality products, which respect consumers' requirements and can be supplied in reasonable time. Organisational techniques, production management, quality control, communication.

Content :

I- Experimental methodology: Introduction. Vocabulary and study approach. Calculation tools. Screening. Common

experiment matrices. Analysis of results. Validation of the model. Taguchi's method.

II- Production control. Concept of capability. Quality checking cards: particular cases. Forecasting techniques.

Advanced

planning techniques. Organisation in specialised workshops. Manufacturing lines. ERP

Bibliography :

P. Souvay La statistique : outil de la qualité Recueil des normes ISO 9000 G. et M.C. Sado, De l'expérimentation à l'assurance qualité - Afnor Technique Jacques Goupy, Introduction aux plans d'expériences - Dunod

Requirements :

TCM06-ISIP

Organisation :

1 hour per week.

Evaluation :

Two-hour written examination at the end of the semester.

Target :