

3th Theoretical Semester		
Learning Modules	ECTS	Title of courses
NY4E8	3, 5	Multivariable Systems
CONTROL AND DIAGNOSIS OF THE SYSTEMS		Supervision - Diagnosis Short Project "Supervision - Diagnosis"
NY4E9	3, 5	Continuous Optimization
OPTIMAL CONTROL OF THE SYSTEMS		Optimal Control Static optimization: design by optimization of electric actuators Theme, Study, Research "Optimath"
NY4E10	5	Control Strategy of electrical Actuators
CONTROL AND OBSERVATION OF ACTUATORS		TER Commande des actionneurs electriques Estimation and Filtering SABER Learning
NY4E11	4	Plasmas
PHYSICS OF ELECTROMAGNETIC DEVICES		Electrodynamics Modelling of Coupled Phenomena Short Project: Modelling of Coupled Phenomena Electromechanical Coupling and Fluid Media Short Project: Electromechanical Coupling and Fluid Media
NY4E12	7	Design of Machines and Electromechanical Actuators
ELECTROMECHANICAL CONVERSION AND MECHATRONIC SYSTEMS		Winding of Electrical Machines Rotation Speed Sensor Characterisation Fundamental Properties of Static Converters Mechatronic Actuators Electromagnetic Compatibility + Study of applications Theme, Study, Research : Numerical Modelling and Sizing of Electrical Machines
NY4E13	7	Project Management
ENGINEERING		CV , job interview Anglais Industrial Project
Total 3st Semester ECTS Credits	30	