


































BACHELOR, 3rd Year - 1st Semester (S5) [JGI5ST0]

UE	Course	ECTS	Language
JGI5U1	GENERAL TEACHING	12	
	Mathematics for engineers		
	Structured programming and Python language		
	Workshop on numerical calculation and Matlab		
	Algorithms		
	Accounting		
	English		
JGI5U2	TASK ORGANIZATION	4	
	Work organization		
	Project Management		
	Enterprises organization and strategies		
	Work organization workshop		
	Refresher Course		
JGI5U3	Basic automation for engineers	8	
	Instrumentation and sensors		
	Power electronics and motor control		
	Continuous automatic Modeling Servo-control		
	Industrial control		
	Practical Studies (PS): instrumentation and sensors		
	PS Power electronics		
	PS basic automatic control		
JGI5U4	COMPUTER SCIENCE FOR ENGINEERS	6	
	Network		
	Industrial Computing		
	Operating system		
	PS Local industrial networks		
	PS industrial computing		
	PS Implementation of the UNIX system		







BACHELOR, 3rd Year - 2nd Semester (S6) [JGI6ST0]

UE	Course	ECTS	Language
JGI6U1	GENERAL TEACHING II	10	
	Probabilities and statistics		
	Object Oriented Programming and JAVA		
	Real time systems		
	General law		
	Human relationship management 1		
	Human relationship management 2		
	English		
	MOUV		
JGI6U3	MODELING OF PROCESSES and SYSTEMS	5	
	Organization and automation of production systems		
	Operational Research		
	Enterprise Modeling and Re-engineering		
	Project management workshop		
	Micro project Processes and systems		
JGI6U4	CONTROL AND REGULATION	5	
	Signal Processing		
	Control of discrete systems		
	Automata and supervisory control		
	PS control systems PS control of discrete system		
JGI6U5	DATA ACCESS AND REPRESENTATION	7	
	Data mining		
	Operational Cyber security of industrial information systems		
	Internet & Web tools		
	Databases		
	PS data mining		
	PS Operational Cyber security of industrial information systems		
	PS Internet & Web tools		
PS Databases			
JGI6U6	ENTERPRISE DISCOVERY INTERSHIP	3	/





















MASTER, 1st Year - 1st Semester (S7) [JGI7ST0]

UE	Course	ECTS	Language
JGI7U2	HUMAN, ECONOMIC,LEGAL AND SOCIAL SCIENCE + ENGLISH	5	
	Personal and Professional project monitoring (GII) English Labour LAw Marketing and commercial management		
JGI8U2	INDUSTRIAL SYSTEM DESIGN	9	
	Design and operation of production system Advanced optimization Design of the business logistics system Governance, Risk Assessment and cyber of compliance of industrial plants Maintenance of industrial system Dependability PS Dependability Quality Assurance Management workshop Workshop on simulation of a production system Micro project design of industrial systems		
JGI7U5	AUTOMATION FOR PRODUCTION	5	
	Robotics Representation and state variables Programmable Logic controllers) Machine vision PS robotics		
JGI7U7	SOFTWARE DEVELOPMENT	7	
	Real time software specification Information systems specification Specification of discrete event systems Software engineering PS information system Specification		
JGI7U8	TECHNICAL REALIZATION WORKS	4	
	Technical Realization works I		

MASTER, 1st Year - 2nd Semester (S8) [JGI8ST0]

UE	Course	ECTS	Language
JGI8U1A	HUMAN, ECONOMIC, LEGAL AND SOCIAL SCIENCES + ENGLISH	4	
	Career Project -2 English I Business law Sustainable development TOEIC English		
JGI7U3	OPERATIONAL PRODUCTION MANAGEMENT	9	
	Project management Integrated management system Quality management Industrial risks and industrial safety management Quantitative methods for manufacturing PS Scheduling PS Statistics Process control ERP workshop Micro project cyber management		
JGI8U4	MAJOR AUTOMATION: IDENTIFICATION AND ADVANCED CONTROL	6	
	Identification , estimation, prediction and forecast I Diagnostic, prognostic and lifetime estimation PS State Feedback control PS Integration of cyber-physical systems PS Diagnostic, prognostic and lifetime estimation State-feedback control Integration of cyber-physical systems		
JGI8U6	MAJOR COMPUTER SCIENCE:COMPUTER SCIENCE OF IOT	6	
	Machine Learning Complements of databases Advanced JAVA Knowledge Representation for Artificial Intelligence PS Knowledge Representation for Artificial Intelligence PS machine learning Ps Complements of databases		
JGI9U1	INTRODUCTORY RESEARCH INTERNSHIP	6	
	Introductory Research internship Bonus Sport GI 4A Bonus Vie Asso. GI 4A TOIEC Palier GI4 TOEIC GI		
JGI8U7	TECHNICAL REALIZATION WORKS	5	
	Technical Realization works I		

MASTER, 2nd Year - 1st Semester (S9) [JGI5TO]

UE	Course	ECTS	Language
JGI9U2A	HUMAN, ECONOMIC,LEGAL AND SOCIAL SCIENCES + ENGLISH	3	
	English Industrial conferences Innovation in enterprises English TOEIC		   
JGI9U3A	OPERATIONAL EXCELLENCE	8	
	Lean, 6 sigma and optimization Globalized production Cost management and return of Investment Quantitative methods of logistics Decision support advance methods Decision support Advanced methods Work shop on supply chain Management Workshop on implementation of a production Micro projects operational excellence		    
JGI9U4A	Industrial Application work	7	
	Industrial Application work		
JGI9U5A	MAJOR AUTOMATION : ADVANCED CONTROL FOR RENEWABLE ENERY AND ROBOTIC SYSTEMS	12	
	Robust and non linear control of complex systems Control of articulated and robotic systems -Robotics, Cobotics and bBuilding Automation Supervision of Automated systems Control of adaptive systems and intelligent machines PS Control of articulated and robotic systems Ps Robotics, Cobotics and bBuilding Automation		    
JGI9U6A	MAJOR COMPUTER SCIENCE:METHODS AND TOOLS FOR DECISION SUPPORT	8	
	Decision support by simulation I Man Machine communication Knowledge Management Information systems for production management Deep learning PS Man machine communication Ps deep learning		    

MASTER, 2nd Year - 2nd Semester (S10) [JGI0U1]

UE	Main course	ECTS	Language
JME10U1	INDUSTRIAL VALORIZATION INTERNSHIP Industrial Valorization internship Bonus sport GI 5A Bonus Vie Asso. GI 5A TOEIC GI	30	 / 