



BTS : Automation and Industrial Computing

Program Summary Table :

Code	Title of module	Nbr hours
M1	Analyze the work function	30
M2	Apply the basics of electricity and electromagnetism	105
M3	Apply basic electronics concepts	105
M4	Realize electrical power supply circuits	60
M5	Interpret plans, diagrams, specifications, and technical documentation	45
M6	Use application software on a PC	75
M7	Analyze digital electronic circuits	105
M8	Analyze basic circuits of microprocessors, microcontrollers and interface circuit	105
M9	Draw sketches and diagrams related to automation and industrial computing	45
M10	Apply fundamental concepts of API programming	105
M11	Carry out project design activities automated systems	105
M12	Use tools, metrology devices and industrial instrumentation	75
M13	Operate systems application software of orders	90
M14	Apply basic concepts in electrical engineering	105
M15	Operate electrodynamic systems	105
M16	Install game related components operative of an automated system	75
M17	Apply fundamental concepts related to continuous process regulation	105
M18	Install and set up a loop of regulation	105
M19	Install and configure a computer network	60





M20	Develop, install and configure a network industrial	105
M21	Check the installations and equipment incompliance with standards, plans and specifications	45
M22	Solve pneumatic system problems and hydraulic	45
M23	Operate maintenance programs preventive and predictive	45
M24	Troubleshoot automated systems	75
M25	Solve equipment problems and machinery	75
M26	Optimizing automated and robotic systems	105
General Education		
M33	English	72
M34	French	72
M35	Arab	36
M36	Company management	36
M37	Legislation	20
M38	Quality management	36
M39	Environmental education	36
M40	Computer science	86

