

ACADEMIC YEAR 2024-2025 PROGRAMME STUDIES OF IIMP AUTOMATION SYSTEMS

DIRECTION A: Manufacturing and Production Systems

TABLE OF COMPULSORY COURSES					
Courses Semester A		ECTS	Courses Semester B		ECTS
1107	Design of Control Systems (3h)	5	1106	CAM and Applications (3h)	5
1108	Modelling and Control of Dynamical Systems (3h)	5	2206	Sensors (3h)	5
TABLE OF ELECTIVE COURSES (Mandatory selection of 4 courses per semester)					
Courses Semester A		ECTS	Courses Semester B		ECTS
1101	Optimal Product and System Design (3h)	5	1201	Transportation Systems (3h)	5
1103	Industrial Installations (3h)	5	1202	Anti-pollution Processes and Techniques (3h)	5
1104	CAD & Applications (3h)	5	1203	Welded Structures (3h)	5
1105	CAE & Applications (3h)	5	1204	Electrical-Mechanical Installations (3h)	5
1109	Technologies and Applications of Additive Manufacturing / 3D Printing 3D Printing (3h)	5	1205	Polymer Technology (3h)	5
1110	Advanced Manufacturing Systems (CIM-INDUSTRY 4.0) (3h)	5	1207	Energy Systems in Buildings and Industry(3h)	5
1206	Smart Materials (3h)	5	2204	Mechatronics(3h)	5
1111	Communication Skills for Engineers (2h)	3	2103	Measurements(3h)	5
			1222	European and Greek Technical Law (2h)	3
Total of ECTS of semester		30	Total of ECTS of semester		30
Semester C			ECTS		
Master's Thesis Preparation			30		

ACADEMIC YEAR 2024-2025 PROGRAMME STUDIES OF IIMP AUTOMATION SYSTEMS

DIRECTION B: Automatic Control and Robotic Systems

TABLE OF COMPULSORY COURSES					
Courses Semester A		ECTS	Courses Semester B		ECTS
1108	Modelling and Control of Dynamical Systems (3h)	5	2202	Nonlinear Systems and Control (3h)	5
2104	Robot Control Systems (3h)	5	2205	Robotics Laboratory (3h)	5
TABLE OF ELECTIVE COURSES					
<p>From Direction A: Mandatory Selection of 2 courses <i>in total</i>, i.e., either 1 per term, or 2 in either of the 2 semesters taken from Direction A courses as they appear in the table above and are not included in this table.</p> <p>From Direction B: Mandatory Selection of 3 courses per semester.</p>					
Courses A' Semester		ECTS	Courses B' Semester		ECTS
1109	Technologies and Applications of Additive Manufacturing/ 3D Printing (3h)	5	2103	Measurements (3h)	5
2203	Intelligent Control and Robotics Systems (3h)	5	2204	Mechatronics (3h)	5
2201	Multivariable Control systems(3h)	5	2206	Sensors (3h)	5
1206	Smart Materials (3h)	5	2207	Adaptive, Robust and Hierarchical Control (3h)	5
2109	Seminar Course in Automatic Control and Robotics-1 (there won't be any lectures this Academic Year)	5	2209	Seminar Course in Automatic Control and Robotics 2 (there won't be any lectures this Academic Year)	5
1111	Communication Skills for Engineers (2h)	3	1222	European and Greek Technical Law (2h)	3
Total of ECTS of semester		30	Total of ECTS of semester		30
Semester C			ECTS		
Master's Thesis Preparation			30		