

MECHATRONICS ENGINEERING MINOR PROGRAMS 2024/2025

Department of Computer Engineering (8 compulsory courses + 2 elective courses)

	Course Code	Course Title	T	R	C	ECTS
1	MECE 113	Computer Aided Engineering Drawing I	2	2	3	5
2	MECE 203	Statics	3	0	3	5
3	MECE 202	Strength of Materials	3	0	3	5
4	MECE 206	Dynamics	3	0	3	4
5	MECE 218	Principles of Signals and Systems	3	2	4	5
6	MECE 386	Control Theory	3	2	4	5
7	MECE 302	Sensors and Measurement	3	2	4	5
8	MECE 401	Introduction to Robotics	3	2	4	5
9	*MECE 234	Circuit Theory II	2	2	3	5
10	*MECE 340	Electromechanical Energy Conversion	3	0	3	3
11	*MECE 349	Analog Electronics	3	2	4	5
12	*MECE 114	Computer Aided Engineering Drawing II	3	0	3	4
13	*MECE 210	Manufacturing Processes	3	2	4	5
14	*MECE 307	Machine Elements I	3	0	3	5
15	*MECE 301	Theory of Machines I	3	0	3	4
16	*MECE 403	Autonomous Systems Design	2	2	3	4

- Courses marked with * in the table are elective courses. Students must take at least two of these elective courses to complete the program.

Department of Industrial Engineering
(9 compulsory courses + 2 elective courses)

	Course Code	Course Title	T	R	C	ECTS
1	MECE 203	Statics	3	0	3	5
2	MECE 202	Strength of Materials	3	0	3	5
3	MECE 206	Dynamics	3	0	3	4
4	MECE 235	Circuit Theory I	2	2	3	5
5	MECE 223	Digital Design	3	2	4	6
6	MECE 336	Microprocessors I	3	2	4	5
7	MECE 218	Principles of Signals and Systems	3	2	4	5
8	MECE 302	Sensors and Measurement	3	2	4	5
9	MECE 401	Introduction to Robotics	3	2	4	5
10	*MECE 403	Autonomous Systems Design	2	2	3	4
11	*MECE 234	Circuit Theory II	2	2	3	5
12	*MECE 340	Electromechanical Energy Conversion	3	0	3	3
13	*MECE 386	Control Theory	3	2	4	5
14	*MECE 349	Analog Electronics	3	2	4	5
15	*MECE 114	Computer Aided Engineering Drawing II	3	0	3	4
16	*MECE 307	Machine Elements I	3	0	3	5
17	*MECE 301	Theory of Machines I	3	0	3	4

- Courses marked with * in the table are elective courses. Students must take at least two of these elective courses to complete the program.

Department of Civil Engineering
(8 compulsory courses + 2 elective courses)

	Course Code	Course Title	T	R	C	ECTS
1	MECE 210	Manufacturing Processes	3	2	4	5
2	MECE 235	Circuit Theory I	2	2	3	5
3	MECE 223	Digital Design	3	2	4	6
4	MECE 218	Principles of Signals and Systems	3	2	4	5
5	MECE 336	Microprocessors I	3	2	4	5
6	MECE 386	Control Theory	3	2	4	5
7	MECE 302	Sensors and Measurement	3	2	4	5
8	MECE 401	Introduction to Robotics	3	2	4	5
9	*MECE 340	Electromechanical Energy Conversion	3	0	3	3
10	*MECE 234	Circuit Theory II	2	2	3	5
11	*MECE 349	Analog Electronics	3	2	4	5
12	*MECE 114	Computer Aided Engineering Drawing II	3	0	3	4
13	*MECE 307	Machine Elements I	3	0	3	5
14	*MECE 301	Theory of Machines I	3	0	3	4
15	*MECE 403	Autonomous Systems Design	2	2	3	4

- Courses marked with * in the table are elective courses. Students must take at least two of these elective courses to complete the program.

Department of Mathematics
(10 compulsory courses + 5 elective courses)

	Course	Course Title	T	R	C	ECTS
1	MECE 113	Computer Aided Engineering Drawing I	2	2	3	5
2	MECE 203	Statics	3	0	3	5
3	MECE 202	Strength of Materials	3	0	3	5
4	MECE 206	Dynamics	3	0	3	4
5	MECE 235	Circuit Theory I	2	2	3	5
6	MECE 223	Digital Design	3	2	4	6
7	MECE 336	Microprocessors I	3	2	4	5
8	MECE 200	Summer Training I	0	0	0	5
9	MECE 302	Sensors and Measurement	3	2	4	5
10	MECE 401	Introduction to Robotics	3	2	4	5
11	*MECE 234	Circuit Theory II	2	2	3	5
12	*MECE 340	Electromechanical Energy Conversion	3	0	3	3
13	*MECE 218	Principles of Signals and Systems	3	2	4	5
14	*MECE 349	Analog Electronics	3	2	4	5
15	*MECE 386	Control Theory	3	2	4	5
16	*MECE 114	Computer Aided Engineering Drawing II	3	0	3	4
17	*MECE 210	Manufacturing Processes	3	2	4	5
18	*MECE 307	Machine Elements I	3	0	3	5
19	*MECE 301	Theory of Machines I	3	0	3	4
20	*MECE 403	Autonomous Systems Design	2	2	3	4

• Mathematics students must complete the MECE 200 summer internship course in a unit or company related to Mechatronics Engineering. Courses marked with an * in the table are electives. Students must take at least five of these electives to complete the program.

Department of Software Engineering
(8 compulsory courses + 2 elective courses)

	Course Code	Course Title	T	R	C	ECTS
1	MECE 113	Computer Aided Engineering Drawing I	2	2	3	5
2	MECE 203	Statics	3	0	3	5
3	MECE 202	Strength of Materials	3	0	3	5
4	MECE 206	Dynamics	3	0	3	4
5	MECE 218	Principles of Signals of Systems	3	2	4	5
6	MECE 302	Sensors and Measurement	3	2	4	5
7	MECE 386	Control Theory	3	2	4	5
8	MECE 401	Introduction to Robotics	3	2	4	5
9	*MECE 114	Computer Aided Engineering Drawing II	3	0	3	4
10	*MECE 210	Manufacturing Processes	3	2	4	5
11	*MECE 223	Digital Design	3	2	4	6
12	*MECE 234	Circuit Theory II	2	2	3	5
13	*MECE 235	Circuit Theory I	2	2	3	5
14	*MECE 340	Electromechanical Energy Conversions	3	0	3	3
15	*MECE 301	Theory of Machines I	3	0	3	4
16	*MECE 307	Machine Elements I	3	0	3	5
17	*MECE 336	Microprocessors I	3	2	4	5
18	*MECE 349	Analog Electronics	3	2	4	5
19	*MECE 403	Autonomous Systems Design	2	2	3	4

- Courses marked with * in the table are elective courses. Students must take at least two of these elective courses to complete the program.