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PLANEA EL AVANCE DE TUS ESTUDIOS

This curricular map shows an appropriate ordering of how you can study your subjects. In its elaboration, the academic staff considered the complexity, difficulty and progression of the contents of the subjects.

CURRICULAR MAP OF THE DEGREE IN MECHATRONIC ENGINEERING. PLAN 2010

AREA ACADÉMICA	SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4	SEMESTER 5	SEMESTER 6	SEMESTER 7	SEMESTER 8	SEMESTER 9	Credits
MANDATORY PROFESSIONAL BLOCK	CRS: MAT1202 **Univariate calculus** Credits: 10 Hrs: 7.5 Req: non Outcome: 1	CRS: MAT2230 **Multivariate Calculus** Credits: 9 Hrs: 6 Req: MAT1202 Sim: MAT2232 Outcome: 1	CRS: MAT2231 **Differential equations** Credits: 7 Hrs: 4.5 Req: MAT1202 Outcome: 1	CRS: FIS2201 **Electrical circuits** Credits: 9 Hrs: 6 Req: MAT1202 Outcome: 2	CRS: IELC2202 **Semiconductor Fundamentals** Credits: 6 Hrs: 4.5 Req: FIS2201 Outcome: 4		CRS: IELC2201 **Analog electronics** Credits: 6 Hrs: 4.5 Req: IELC2202 Outcome: 4	CRS: IELC2209 **Embedded systems** Credits: 6 Hrs: 4.5 Req: IELC2202 Outcome: 7	CRS: IELC2205 **Power electronics** Credits: 6 Hrs: 4.5 Req: IELC2202 Outcomes: 8	267
	CRS: MAT1203 **Superior mathematics** Credits: 7 Hrs: 4.5 Req: non Outcome: 1	CRS: MAT2232 **Linear algebra** Credits: 9 Hrs: 4.5 Req: non Outcome: 1	CRS: MAT2237 **Integral Transforms** Credits: 6 Hrs: 3 Req: MAT2230 Sim: MAT2231 Outcome: 7	CRS: MAT2219 **Probability** Credits: 7 Hrs: 4.5 Req: non Outcome: 3	CRS: IMEC2202 English **Measurement and instrumentation** Credits: 6 Hrs: 4.5 Req: FIS2201 Outcome: 11	CRS: INT2292 **Mechatronic Practicum I** Credits: 9 Hrs: 4.5 Req: 200 Credits Outcome: 4, 5,11, 13	CRS: ADM2219 **Leadership and direction** Credits: 6 Hrs: 3 Req: non Outcome: 12	CRS: IELC2206 **Electric machines** Credits: 6 Hrs: 4.5 Req: non Outcome: 8	CRS: INT2293 **Mechatronic Practicum II** Credits: 9 Hrs: 4.5 Req: INT2292 Outcomes: 4, 5, 11, 13	
	CRS: IMEC1201 **Computer design** Credits: 3 Hrs: 3 Req: non Outcome: 6	CRS: FIS2203 **Statics** Credits: 9 Hrs: 6 Req: non Outcome: 2	CRS: FIS2202 **Dynamics** Credits: 9 Hrs: 6 Req: FIS2203 Outcome: 2	CRS: IMEC2207 **Materials mechanics** Credits: 6 Hrs: 4.5 Req: FIS2203 Outcome: 6	CRS: IMEC2205 **Design of mechanisms** Credits: 6 Hrs: 4.5 Req: FIS2202 Outcome: 6	CRS: IMEC2204 **Design of mechanical components** Credits: 6 Hrs: 4.5 Req: IMEC2207 Outcome: 6		CRS: CMP2218 Semiprescencial **Digital signal processing** Credits: 6 Hrs: 4.5 Req: MAT2237 Outcome: 7	CRS: HUM2208 **Engineer's Ethics** Credits: 6 Hrs: 3 Req: HUM2202 Outcomes: 12, 13	
	CRS: SIS2202 **Algorithms and programming** Credits: 6 Hrs: 4.5 Req: non Outcome: 5		CRS: SIS2215 **Object oriented languages** Credits: 6 Hrs: 4.5 Req: SIS2202 Outcome: 5	CRS: MAT2217 **Numerical methods** Credits: 7 Hrs: 4.5 Req: SIS2202 Sim: MAT2232 Outcome: 1	CRS: QUI2226 **Thermodynamics** Credits: 9 Hrs: 6 Req: non Outcome: 6	CRS: IELC2204 **Digital circuits** Credits: 6 Hrs: 4.5 Req: non Outcome: 4	CRS: IELC2203 **Automation** Credits: 6 Hrs: 4.5 Req: IELC2204 Outcome: 10			
	CRS: QUI1202 **Chemistry of materials** Credits: 7 Hrs: 4.5 Req: non Outcome: 4	CRS: IMEC2201 **Materials Engineering** Credits: 6 Hrs: 4.5 Req: QUI1202 Outcome: 11, 12, 13	CRS: IMEC2208 **Manufacturing processes** Credits: 6 Hrs: 4.5 Req: IMEC2201 Outcome: 11, 12, 13	CRS: IMEC2206 **Computer-aided manufacturing** Credits: 6 Hrs: 4.5 Req: IMEC2208 Outcome: 5, 6, 8, 11	CRS: IMEC2203 **Dynamics of Mechatronic Systems** Credits: 6 Hrs: 4.5 Req: MAT2231 Outcome: 7	CRS: IMEC2210 **Theory of control** Credits: 9 Hrs: 6 Req: IMEC2203 Outcome: 7	CRS: IELC2210 Semiprescencial **MEMS Systems** Credits: 6 Hrs: 4.5 Req: IMEC2203 Outcome: 7	CRS: IMEC2209 **Industrial robotics** Credits: 6 Hrs: 4.5 Req: IMEC2210 Outcome: 7, 10, 11		
ELECTIVE PROFESSIONAL BLOCK (choose subjects from the catalog of your career shown below)							**Elective 1**	**Elective 2**	**Elective 4** Online	24
								Elective 3		
HUMANITIES You must take the courses HUM1201 and COM1202 in the first SEMESTER, the other subjects of the block you can take when you want, observing the seriation of them.	CRS: HUM1201 **Introduction to university studies** Credits: 6 Hrs: 3 Req: non Outcome Anáhuac: 1	CRS: HUM2204 **History of ideas** Credits: 6 Hrs: 3 Req: HUM1201 Outcome Anáhuac: 1	CRS: HUM2201 **Basic anthropology** Credits: 6 Hrs: 3 Req: HUM1201 Outcome Anáhuac: 1	CRS: HUM2202 **Ethics and bioethics** Credits: 6 Hrs: 3 Req: HUM2201 Outcome Anáhuac: 1	CRS: HUM2203 **History western civilization** Credits: 6 Hrs: 3 Req: HUM2204 Outcome Anáhuac: 1	CRS: FIL2202 **Social responsability** Credits: 6 Hrs: 3 Req: non Outcome Anáhuac: 1	CRS: HUM2205 **Person and transcendence** Credits: 6 Hrs: 3 Req: HUM2202 Outcome Anáhuac: 1			48
	CRS: COM1201 **Communication skills** Credits: 6 Hrs: 3 Req: non Outcome Anáhuac: 1									

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AREA ACADÉMICA	SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4	SEMESTER 5	SEMESTER 6	SEMESTER 7	SEMESTER 8	SEMESTER 9	Credits
GENERAL STUDIES You can choose 6 Credits subjects or 3 Credits workshops from the current institutional offer	To cover the Anáhuac Elective Block you can choose courses of 6 Credits or workshops of 3 Credits				General Studies Workshop I	General Studies Workshop II	General Studies Workshop III	General Studies Workshop IV	General Studies Workshop V	15
Credits	39	45	40	41	39	36	30	24	21	315
Subjects	6	6	6	6	7	6	7	7	6	60
					Total Credits (Professional Block, Elective Professional Block, Humanities, General Studies)					354

Below are the subjects of the ELECTIVE PROFESSIONAL BLOCK OF YOUR CAREER, among which you can select the subjects you wish to study

CATALOG OF ELECTIVE PROFESSIONAL SUBJECTS, Automotive Mechatronics Diploma		CRS: IMEC2212 **Analysis of Automotive Systems** Credits: 6 Hrs: 3 Req: non Outcome: 4	CRS: IMEC2216 **Advanced computer design** Credits: 6 Hrs: 3 Req: IMEC1201 Outcome: 6, 13	CRS: IMEC2215 **Automotive design** Credits: 6 Hrs: 3 Req: IMEC2212/IMEC2216 Outcome: 14		CRS: IMEC2211 **Finite element analysis** Credits: 6 Hrs: 3 Req: IMEC2207/QUI2226 Outcome: 6, 13	CRS: IMEC2213 **Vibration analysis** Credits: 6 Hrs: 3 Req: IMEC2205 Outcome: 9	CRS: IMEC2220 **Operation of thermal machines** Credits: 6 Hrs: 3 Req: QUI2226 Outcome: 8	CRS: ING2201 Online **Technological innovation** Credits: 6 Hrs: 3 Req: non	24
CATALOG OF ELECTIVE PROFESSIONAL SUBJECTS, Diploma of Manufacturing Systems		CRS: IMEC2221 **Metalworking processes** Credits: 6 Hrs: 4.5 Req: non Outcome: 13	CRS: IMEC2218 **Polymer engineering** Credits: 6 Hrs: 3 Req: IMEC2201 Outcome: 11, 12, 13	CRS: IMEC2222 **Integrated manufacturing systems** Credits: 6 Hrs: 4.5 Req: IMEC2208 Outcome: 5		CRS: IMEC2217 **Fundamentals of industrial processes** Credits: 6 Hrs: 3 Req: QUI2226 Outcome: 4, 11		CRS: ICIV2201 **Energy engineering** Credits: 6 Hrs: 3 Req: QUI2226 Outcome: 8		
CATALOG OF ELECTIVE PROFESSIONAL SUBJECTS, other subjects of Mechatronics		CRS: IIND2214 **Supply Chain I** Credits: 6 Hrs: 3 Req: non Outcome: 12	CRS: IIND2210 **Negotiation** Credits: 6 Hrs: 3 Req: non Outcome: 12	CRS: IELC2212 **Cutting-Edge Topics in computer science** Credits: 6 Hrs: 3 Req: non Outcome: 13	CRS: IELC2213 **Cutting-Edge Topics in electronic engineering** Credits: 6 Hrs: 3 Req: non Outcome: 13	CRS: CMP2229 **Cutting-edge topics in mechanical engineering** Credits: 6 Hrs: 3 Req: non Outcome: 13	CRS: IIND2215 **Supply chain II** Credits: 7 Hrs: 4.5 Req: IIND2214 Outcome: 12	CRS: FIS2204 **Optics, fluids and waves** Credits: 9 Hrs: 6 Req: MAT2230 Outcome: 2	CRS: IMEC2214 **Digital control** Credits: 6 Hrs: 4.5 Req: IMEC2210 Outcome: 7, 10, 11	
		CRS: IMEC2223 **Selected Mechatronics Engineering Certification Topics** Credits: 6 Hrs: 3 Req: 300 Credits Outcome: 13								
CATALOG OF ELECTIVE PROFESSIONAL SUBJECTS, other subjects		CRS: CUL2216 **Selected topics of science and culture** Credits: 6 Hrs: 3 Req: non	CRS: HUM2217 **Selected university topics** Credits: 6 Hrs: 3 Req: non							

The elective subjects shown are taught at Anahuac México Norte