Electromechanical Engineering

Duration
Eleven semesters

Degree
Electromechanical Engineer

Professional Profile:

The graduate will have the ability to:

• Achieve adequate scientific-technological training and develop a reflective and critical intellectual methodology.

• Be concerned about the political consequences of managing technology, its implications for the economic and social development of the region and the country.

• Maintain an updated geopolitical vision of the country and the world, to address the development of solutions to the demands of society.

• Apply their professional skills with the highest humanistic and ethical sense, safeguarding the cultural and ecological heritage of the environment.

• Manage situations under uncertainty, consolidating attitudes for solving non-traditional problems with a predisposition to adopting solutions under risk.

• Stimulate creativity, personal initiative, teamwork and innovation in the technological area.

• Master the use of IT tools, computer-assisted design and the access to computer networks.

• Create job positions in order to promote the creation of national companies.

Study Plan

YEAR	SEM	N°	SUBJECT	HOURLY CREDIT
1	1	1	Calculus I	8.00
1	1	2	Chemistry	5.00
1	1	3	Algebra and Analytical Geometry	7.00
1	1	4	Personal Development I	5.00
1	1	5	English I	3.00
1	2	6	Computing	5.00

1	2	7	Physics I	10.00
1	2	8	Drawing and Computer-Assisted Design	4.00
1	2	9	Personal Development II	5.00
1	2	10	English II	3.00
2	3	11	Calculus II	8.00
2	3	12	Materials Mechanics	6.00
2	3	13	Physics II	9.00
2	3	14	Statistics	5.00
2	4	15	Applied Math	5.00
2	4	16	Thermodynamic	6.00
2	4	17	Electrotechnics I	7.00
2	4	18	Numerical Methods	5.00
2	4	19	Economy	4.00
3	5	20	Materials I	5.00
3	5	21	Rational Mechanics and Mechanisms	7.00
3	5	22	Electrical Engineering II	7.00
3	5	23	Numerical Methods I	5.00
3	5	24	Health and Safety at Work	5.00
3	6	25	Thermal Machines	7.00
3	6	26	Machine Elements	5.00
3	6	27	Electrical Measurements	5.00
3	6	28	Materials II	3.00
3	6	29	Business Management	5.00
4	7	30	Applied Electronics	8.00
4	7	31	Mechanical Technology	5.00
4	7	32	Electric Machines and Introduction to Design	9.00
4	7	33	Industrial Organization and Legislation	5.00
4	8	34	Power Plants and Electric Lines	6.00

4	8	35	Fluid Mechanics and Hydraulic Machines	6.00
4	8	36	Introduction to the Formulation and Evaluation of Investment Projects	3.00
4	8	37	Linear Control and Industrial Metrology	7.00
4	8	38	Optative A	5.00
5	9	39	Electrical Power Supply System	6.00
5	9	40	Industrial Facilities	5.00
5	9	41	Electrical Installations	5.00
5	9	42	Optative B	11.00
5	10	43	Final Project Work	500.00
5	10	44	Factory Practice	300.00
				Total subjects: 44

OPTATIVE B

YEAR	SEM	N°	SUBJECT	HOURLY CREDIT
			Wind Generation	0.00
			Advanced Metrology	0.00
			Industrial Computing	0.00

OPTATIVES A

YEAR	SEM	N°	SUBJECT	HOURLY CREDIT
			Purchasing and Supplier Management	20.00
			IT Project Management	20.00
			Integrated Logistics	40.00
			Creativity	20.00

			Negotiation, Power and Influence	20.00
			Professional and Personal Marketing	20.00
			Family Businesses	30.00
			Organizational Development and Reengineering	20.00
			Accounting for Engineers	30.00
			Productive Microenterprises	30.00
			Introduction of Human Resources Administration Concepts in the Training of the Engineer	30.00
			Electrical Rates and Contracts in the Argentine Electric Market	30.00
			Plans for Uncertain Times	30.00
			Quality Management	30.00