FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH	SEVENTH	EIGHTH	NINTH
Interpreting Statistical Information	Academic Writing I	Statics	Electronics I	General Studies Elective	Leadership in Organizations	International Contexts	Social Thinking	Global Competencies
Differential Calculus	Classical Mechanics	Computer Organization and Architecture	Numerical Methods	Electronics II	Electronics Laboratory	General Studies Elective	Professional Studies Elective	Professional Studies Elective
Computer-Aided Mechanical Drawing	Classical Mechanics Laboratory	Electricity and Magnetism	Dynamics	Signals and Linear Systems Analysis	Control Theory	Embedded Systems	Minor Area Optional	Minor Area Optional
General Studies Elective	Integral Calculus	Differential Equations	Circuit Analysis 2	Analog Systems	Microprocessors	Microprocessors Laboratory	Real-Time Control Systems	Network Design
Computer Mathematics	Chemistry	Circuit Analysis I	Circuit Laboratory	Digital Systems	Digital Systems Laboratory	Technological Development Interdisciplinary Project	Embedded Systems Laboratory	
Programming Fundamentals	Object-Oriented Modeling	Intermediate Programming	Interface Design	Introduction to Networks	Automatic Control Laboratory	Advanced Robotics	Professional Internship (Entrepreneurial)	Final Evaluation Project (Entrepreneurial)
Induction Seminar	Programming Principles		Probability and Statistics	Advanced Calculus	Robotics 1	Robotics Laboratory		
General Studies	Optional Courses	Electronics	Applied Robotics	Computing and Networks	Physics-Mathematics	Projects in Companies	Mechanics	
Courses / 47 - Credits / 282		Internship and PEF / 3 - Credits / 24		Labs / 8 - Credits / 24		Total/58-Gredits/330		

Bachelor's Degree in Electronic **Technologies** and Robotics **Engineering**

Personal Education Plan—

The Personal Education Plan allows you to design a personal, unique plan for your degree program and holistic education. You will have an advisor who will guide you through three phases: decision, consolidation, and success. Through these phases, you will be able to make decisions on courses, formative activities, opportunities to go on exchange, and everything that UDEM offers you to reach your full potential.

udem.edu.mx/planpersonal

Elective general studies courses—

As part of your academic plan, you are entitled to choose 3 elective competency courses throughout your degree program.

The following are the elective courses for the Bachelor's Degree program in Electronic Technologies and Robotics Engineering

NATURAL AND EXACT SCIENCES

- Human Anatomy
- Nutrition
- Preventive Stomatology I
- Biochemistry
- Research
- Chemistry
- Differential Calculus
- Computer Mathematics
- Mathematical Logic
- Differential and Integral Calculus
- Statistics
- Basic Electronics
- Astronomy
- Sustainable Development
- Technological Tools for Productivity

As part of your academic plan,

you are entitled to choose three

professional specialty courses:

- Trends in Science and Technology

SOCIAL AND BEHAVIORAL SCIENCES

- Fundamentals of Management
- Management of Human Capital
- Tourism
- Introduction to Finance
- Sociology of Culture
- Introduction to Anthropology
- Introduction to International Relations
- History of Juridical Institutions
- General Criminal Law
- Person and Family
- Mexican Studies
- General Psychology
- Psychology of the Child and Adolescent
- Psychology of Learning
- Social Psychology
- Development of Interpersonal Skills

ARTS AND HUMANITIES

- Art after the Cold War
- History of Photography
- The Classical World

AUTOMATION

Laboratory I

Laboratory II

Elective professional studies courses—

- Effective Communication

- Manufacturing Automation

- Manufacturing Automation

- Manufacturing Automation

- Oral Communication
- Sources of Western
- Literature
- Study of Religions
- Ethics of Organizations
- Sociology of Organizations
- Introductory French
- Elementary French
- Intermediate French
- Upper-Intermediate French
- French Reading and Composition
- Introductory German
- Elementary German
- Upper-Elementary German
- Second Language Certification

- Ideology of Images

ADVANCED NETWORKS

- Network Applications
- Advanced Networks

Laboratory

TELECOMMUNICATIONS

- Digital Signal Processing

- Digital Communications

- Communications Systems

Contact information—

Bachelor's degree in Electronic Technologies and Robotics Engineering

Alberto Hussein De la Torre Sotelo hussein.delatorre@udem.edu Tel. (81) 8215 - 1851