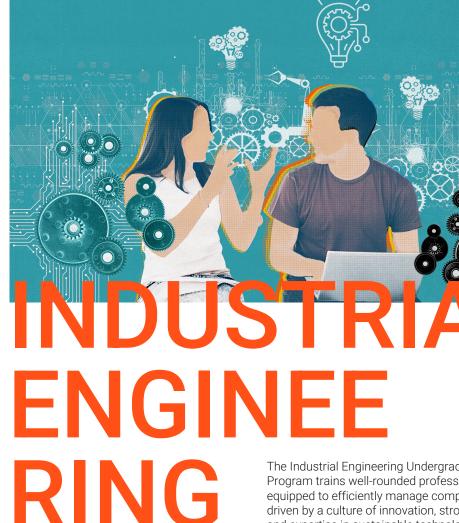


SPECIALIST CERTIFICATIONS

- Technological Innovation
- · Business Analytics
- · Supply Chain Management

- Engineering Project Management
- Business Engineering

SCHOOL OF ENGINEERING



The Industrial Engineering Undergraduate Program trains well-rounded professionals equipped to efficiently manage companies, driven by a culture of innovation, strong skills, and expertise in sustainable technologies. Our University's education enables them to become process experts and organizational leaders, with professionalism grounded in ethical principles, a commitment to business competitiveness, and a vision focused on societal development.











LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7	LEVEL 8	LEVEL 9	LEVEL 10
BASIC MATHEMATICS 5	CALCULUSI	APPLIED ARTIFICIAL INTELLIGENCE *	STATISTICS AND PROBABILITY *	OPERATIONS RESEARCH I *	4 OPERATIONS RESEARCH II *	4 FINANCIAL ENGINEERING	3 PROCESS SIMULATION	4 ETHICS AND HUMAN MANAGEMENT	3 APPLIED ENGINEERING PROJECT II
RESEARCH METHODOLOGIES 3	LINEAR ALGEBRA	ORGANIZATIONAL SYSTEMS *	2 CALCULUS III *	OPERATIONS AND LOGISTICS FUNDAMENTALS	4 ERGONOMICS AND WORK DESIGN	4 FACILITIES DESIGN	3 PREDICTIVE DATA MODELING	3 APPLIED ENGINEERING PROJECT I	4 STRATEGIC MANAGEMENT 4
PERSONAL AND SOCIAL DEVELOPMENT	ECONOMICS AND BUSINESS	COMPUTER-AIDED DESIGN	OPERATIONS COSTING *	ECONOMIC ENGINEERING	OPERATIONS CONTROL AND PLANNING	BUSINESS INTELLIGENCE	3 INTEGRATED MANAGEMENT SYSTEMS	3 COMMERCIAL ENGINEERING	3 ELECTIVE 3
LANGUAGE AND COMMUNICATION I	LANGUAGE AND COMMUNICATION II	GENERAL CHEMISTRY	PROGRAMMING FUNDAMENTALS	ELECTRICITY AND ELECTRONICS	3 ENGINEERING INNOVATION	3 LOGISTICS SYSTEMS MODELS	4 ENGINEERING PROBLEM ANALYSIS	3 ELECTIVE	3 ELECTIVE 3
INTRODUCTION TO ENGINEERING	SOCIAL AND POLITICAL PROCESSES	B PHYSICS I	5 PHYSICS II 5	DESIGN OF EXPERIMENTS	4 INDUSTRIAL PROCESSES	4 QUALITY	3 INDUSTRIAL AUTOMATION	3 ELECTIVE	3 ELECTIVE 3
CIVIC ETHICS 2	PHILOSOPHY TOPICS	3 CALCULUS II *	5 MECHANICS 4	DIFFERENTIAL EQUATIONS	3 ELECTIVE	3 MANUFACTURING PROCESSES	3 PROJECT MANAGEMENT *	3 MANDATORY CREDITS	10 MANDATORY REDITS 8
MANDATORY 20	MANDATORY 20	MANDATORY CREDITS 22	MANDATORY CREDITS 22	MANDATORY A	MANDATORY CREDITS 1	9 ELECTIVE	3 ELECTIVE	3	
						MANDATORY CREDITS	19 MANDATORY CREDITS	19	

Elective Subjects:

GLOBALIZATION, CAPITALISM, AND SCIENCE IN THE CONTEMPORARY WORLD	3	DESIGN PROJECT MANAGEMENT	3	SUPPLY CHAIN MANAGEMENT	3	PROJECT IMPLEMENTATION MANAGEMENT	3	DESIGN AND PROTOTYPE	3	ERP PROCESS WORKSHOP	3	B2B MANAGEMENT	3
LEADERSHIP WORKSHOP	3	INDUSTRIAL TECHNOLOGY	3	PROCUREMENT AND SUPPLY MANAGEMENT	3	INTERNATIONAL TRADE MANAGEMENT	3	ROBOTIC PROCESS AUTOMATION	3	TRANSPORTATION AND DISTRIBUTION ENGINEERING	3	DIGITAL MARKETING TOOLS	3
ENGINEERING PROGRAMMING	3	DIGITAL TRANSFORMATION	3	BUSINESS GAME	3	CREATIVITY, INNOVATION, AND ENTREPRENEURSHIP	3	MACHINE LEARNING	3	SERVICE OPERATION MANAGEMENT	3	INDUSTRIAL SUSTAINABILITY	3
MANAGEMENT INFORMATION SYSTEMS	3	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	3	PROJECT EVALUATION AND FORMULATION	3	SUSTAINABLE PROJECT DESIGN	3	IT TOOLS	3	RESOURCES MANAGEMENT	3	OCCUPATIONAL SAFETY, HEALTH, AND ORGANIZATIONAL WELL-BEING	3
MANAGERIAL SKILLS WORKSHOP	3	BUSINESS INTELLIGENCE STRATEGY	3	AGILE METHODOLOGIES	3	PROGRAMMING TECHNOLOGY	3	LEAN SIX SIGMA	3	RISK MANAGEMENT AND PORTFOLIO	3		

To choose these subjects, it is necessary to meet the requirements set out in this curriculum.

Mandatory subjects of the General Studies Program

Mandatory subjects of the Industrial Engineering Undergraduate Program

Elective subjects of the Industrial Engineering Undergraduate Program

Subjects in common among the undergraduate programs of the School**



^{**} The School of Engineering comprises the Civil Engineering, Industrial Engineering,
Systems Engineering, Mechatronics Engineering, and Environmental Engineering undergraduate programs.

CREDIT SUMMARY	CREDITS	TYPE OF CREDIT
General Studies	40	Mandatory
School	141	Mandatory
Total Elective Subjects	24	Elective
Total Credits	205	

Subject to curricular change.