



INSTITUTO TECNOLÓGICO
Y DE ESTUDIOS SUPERIORES
DE MONTERREY

Campus Monterrey

Certificate of studies *

Folio 23-16914 I

The School Services Directorate of The Monterrey Institute of Technology and Higher Education campus or the entity referred to herein certifies that the student whose name appears on this document has successfully passed -during the school terms specified herein- the subjects listed below.

This certificate is deemed valid and original only if it bears the Institute's seal and the signatures of the pertinent authorities, registered before the Ministry of Public Education.

The studies covered by this certificate have official validity across the country pursuant to Presidential Decree dated July 24th, 1952, published in the Official Gazette of the Federation on the 12th day of September of 1952, and to Agreement No. 3438 issued by the Secretary of Public Education on February 28th, 1974, published in the Official Gazette of the Federation on the 5th day of March of that year. The Monterrey Institute of Technology and Higher Education is accredited by the Southern Association of Colleges and Schools Commission on Colleges for granting professional bachelor's degrees as well as academic master's and doctorate degrees. Please contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia, 30033-4097, or call (+1) 404-679-4500 in case you have questions about the accreditation of The Monterrey Institute of Technology and Higher Education. Courses take place throughout 16-week long semesters for high school and postgraduate courses, 18 weeks for professional courses, and 5 weeks for intensive courses. Semesters start in August and January for high school, and in August and February for professional and postgraduate programs. Intensive courses commence in June and consist of a number of hours equal to semester-long courses. Certain bachelor's degrees and graduate programs consist of 12-week long trimesters. Trimesters start in January, April, July and September. The grading scale ranges from 1 through 100. The minimum course passing grade is 70.

Name Adán Flores Ramírez

Date August 14th, 2024 Registration number 1612331

This certificate was issued at Monterrey, Nuevo León

Lic. Karla María Fano Suárez
Registrar

This document certifies studies in B.S. IN MECHATRONICS ENGINEERING

Name of course	Grade	Credits	Name of course	Grade	Credits
Courses taken at San Luis Potosí Campus			Thermodynamic Modeling for Engineering	96	3
August - December 2021			Modeling of Electrical Systems in Engineering	91	3
Elective Course Mathematics and Science (Mathematics and Data Science for Decision Making)	99	3	Modeling of Electromagnetic Systems in Engineering	93	3
Engineering and Science Modeling	99	3	Intermediate Mathematical Modeling	97	2
Modeling the Movement in Engineering	100	3	Matrix Modeling	100	1
Modeling in Engineering with Conservation Laws	99	3	Statistic Analysis	96	1
Mathematical Thinking I	96	2	Chemical Experimentation and Statistical Thinking I	100	1
Analysis of the Structure, Properties and Transformation of Matter	99	2	Elective Course Leadership, Entrepreneurship and Innovation (Argumentation, Debate, and the Art of Public Speaking)	87	3
Computational Thinking for Engineering	100	2	Courses taken at this Campus		
February - June 2022			August - December 2022		
Physical Experimentation and Statistical Thinking	87	1	Elective Course Humanities and Fine Arts (Historical OVER		
CONTINUED NEXT COLUMN					

Name of course	Grade	Credits	Name of course	Grade	Credits
Milestones of the 20th and 21th Centuries)	89	3	CONTINUED NEXT COLUMN		
Design and Analysis of Experiments in Engineering Innovation	100	3	THIS IS THE OFFICIAL TRANSLATION OF THE TRANSCRIPT ISSUED BY INSTITUTO TECNOLÓGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY		
Introduction to Data Science Projects	92	3			
Process Modeling Using Linear Algebra	100	1			
Engineering Modeling Using Dynamic Systems	100	2			
Static Balance Analysis	97	2			
Analysis of Electrical circuits	100	1			
Exploration Topic	92	3			
January - February 2023					
Elective Course Social and Behavioral Sciences (Gender, Society and Human Rights)	95	3			
February - June 2023					
Mechatronic Integration	91	4			
Implementation of Mechatronic Systems	94	4			
Analysis of Elements of Mechatronics	92	1			
Modeling and Automation	100	1			
Analysis of Materials and Manufacturing	95	4			
Analysis of Mechanisms	97	1			
June - July 2023					
Elective Course Ethics and Citizenship (Global Citizenship: Diversity and Tolerance)	100	3			
August - December 2023					
Troubleshooting Processes	82	4			
Industrial Automation	88	8			
Mechatronic Design	97	1			
Design of Control Systems	92	2			
February - June 2024					
Automation of Manufacturing Systems	100	12			
Design and Development of Robots	91	6			
----- This is a partial certificate covering 38 (THIRTY EIGHT) courses that make up the curriculum for B.S. in Mechatronics Engineering (Version IMT19).					

