MECHANICAL ENGINEERING

UASLP
Universidad Autónoma de San Luis Potosí

FACULTAD DE INGENIERÍA

PROGRAM PLAN JUNE 2021

- CURRICULUM -

LEVEL	MANAGEMENT	PROGRAMMING	PROCESSES	MECHANICS	MECHANICS	DESIGN	THERMOFLUIDS	ELECTRICAL AND CONTROL	SEMINARS	HUMANISTICS	MANDATORY CREDITS	ACCUMULATED CREDITS
I	ALGEBRA A 3 2 8 0041 CB	PRINCIPLES OF ADMINISTRATION 3 0 6 5900 CE	CHEMISTRY 3 2 8 0071 CB		ORIENTATION SEMINARY ME 0 1 1 5915 CC	GEOMETRY AND TRIGONOMETRY 3 2 0 0000 CB	PHYSICS A 3 2 8 0061 CB	CALCULUS A 3 2 8 0051 CB	SOCIO-AFFECTIVE AND ETHICAL SKILLS 0 3 3 5688 CS	INVESTIGATION METHODOLOGY 0 4 4 1005 CS	46	46
II	ALGEBRA B 3 2 8 0042 CB			MECHANICAL ENGR. DRAWING 4 0 8 5690 CI		STATICS 3 2 8 5694 CB	PHYSICS B 3 2 8 0062 CB	CALCULUS B 3 2 8 0052 CB	ENGLISH 1 0 5 5 1936 CC	ORAL AND WRITTEN COMM TECHNIQUES 0 5 5 1006 CC	50	96
III	STATISTICS FOR ENGINEERS 3 2 8 5894 CB		MATERIALS ENGINEERING I 3 0 6 5629 CI	COMPUTER-AIDED DRAWING 0 3 3 5689 IA	DYNAMICS 3 2 8 5691 CB	MECHANICS OF MATERIALS I 5 1 11 5695 CI		CALCULUS D 3 2 8 0054 CB	ENGLISH 2 0 5 5 1937 CC		49	145
IV	OPERATION RESEARCH I 3 0 6 5927 CI	INTRODUCTION TO PROGRAMMING 3 2 8 5705 CB	MATERIALS ENGINEERING II 3 1 7 5666 CI	METROLOGY 3 2 8 5685 IA	KINEMATICS OF MACHINES 5 0 10 5522 CI	MECHANICS OF MATERIALS II 3 0 6 5641 CI			ENGLISH 3 0 5 5 1938 CC		50	195
V	PRODUCTION SYSTEMS 3 2 8 5647 IA	NUMERICAL ANALYSIS 3 0 6 5709 CB	MANUFACTURING PROCESSES I 3 2 8 5697 IA			METHODOLOGY FOR MECHANICAL DESIGN 0 3 3 5744 IA	THERMODYNAMICS 5 1 11 5618 CI	[1] ELECTRONICS FOR ENGINEERING I 4 1 9 5692 CI	ENGLISH 4 0 5 5 1939 CC		50	245
VI			MANUFACTURING PROCESSES II 3 0 6 5625 IA	[2] PROJECT ADMINISTRATION 3 0 6 5909 CE	VIBRACIONES MECANICAS 5 0 10 5648 IA	MECHANICAL DESIGN A 5 1 11 5686 IA	THERMAL MACHINES 5 1 11 5619 CI	ELECTRONICS FOR ENGINEERING II 5 0 10 5693 CI	ENGLISH 5 0 5 5 1940 CC		49	294
VII	QUALITY CONTROL 3 0 6 5965 CI		MANUFACTURING PROCESSES III 3 2 8 5626 IA			MECHANICAL DESIGN B 4 1 9 5687 DI	FLUID MECHANICS 5 1 11 5632 CI	CONTROL AND AUTOMATION SYSTEMS 3 1 7 5614 IA		[2] ENTREPRENEURSHIP 0 2 2 1016 CS	47	341
VIII			COMPUTER NUMERICAL CONTROL 3 2 8 5631 IA	[2] ENVIRONMENTAL MGMT AND ENGR. 3 0 3 5930 CC	FINITE ELEMENT METHOD 4 1 9 5613 IA		[10] TRANSPORT PHENOMENA 5 0 10 5667 CI	HIDRAULIC AND PNEUMATIC CIRCUITS 4 2 10 5633 IA	[6] FOREIGN LANGUAGE VALIDATION 0 0 0 1927 CC	[2] LEADERSHIP 0 2 1 1015 CS	47	388
IX			[3] ADV MANUFACTURING TOPICS 0 3 3 5741 IA	[3] MAINTENANCE MANAGEMENT 0 3 3 5742 IA		[5] INTEGRATING PROJECT ME 3 4 10 5669 DI		HYDROMECHANICAL SYSTEMS A 3 1 7 5623 IA	[5] SEMINARY 0 2 2 5988 CS		25	413
X				[5] INDUSTRIAL FACILITIES 0 3 6 5743 IA					[7] GRADUATION SEMINARY 0 0 0 1926 CC		3	416

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- CURRICULUM -

- NOMENCLATURE -

1		7		
2	3	4	6	5

1 - Notes.
2 - Class hours / week.
3 - Laboratory hours / week.
4 - Credits.
5 - CACEI code.
6 - Subject code.
7 - Subject title.

- FACULTY CLASSIFICATION -

PREREQUISITE | COMMON | EUD

PHYSICAL-MATHEMATICAL | PROGRAM | AREA

- CACEI CLASIFICATION -

CB: *Basic sciences and mathematics.*
CI: Engineering Sciences (Basic Engineering).
AI: Applied Engineering.
DI: Engineering design.
CS: Social sciences and humanities.
CE: Administrative Economic Sciences.
CC: Complementary courses.

- OPTIONAL SUBJECTS -

PHYSICAL BRANCH

II				
PHYSICS D				
2	2	6	0064	CB

MATHEMATICAL BRANCH

CALCULUS C				
2	2	6	0053	CB

0042 0054 VI				
APPLIED MATHEMATICS				
3	0	6	5960	IA

FLEXIBLE SUBJECTS

8 V				
LEARNING ACTIVITIES				
0	2	2	1916	CC

9 VII				
MOVILITY				
3	0	6	1908	CC

4 IX				
PROFESSIONAL PRACTICES IM				
0	15	15	5802	IA

THERMOFLUIDS BRANCH

5667 IX				
REFRIGERATION AND AIR CONDITIONING				
5	0	10	5515	IA

QUALITY BRANCH

5965 VIII				
QUALITY MANAGEMENT AND CONT. IMPROVEMENT				
3	0	6	5975	CE

ADMINISTRATION AND ECONOMICS BRANCH

3 IX				
LABOR LAW				
3	0	6	5904	CC

3 VIII				
STAFF ADMINISTRATION				
3	0	6	5902	CE

3 VIII				
ECONOMIC ENGINEERING				
3	0	6	5646	CE

INDUSTRIAL FACILITIES AND MAINTENANCE BRANCH

3 IX				
MATERIAL HANDLING				
5	0	10	5601	IA

3 IX				
FOUNDATION OF MACHINERY				
3	0	6	5541	IA

3 IX				
SAFETY AND IND. HYGIENE				
3	0	6	5972	IA

PRODUCTION BRANCH

3 X				
METHODS ENGINEERING				
3	2	8	5977	CI

5 5977 X				
ERGONOMICS				
3	0	6	5974	IA

APPLIED ENGINEERING BRANCH

5 IX				
COMPUTER AIDED ENGINEERING				
3	2	8	5800	IA

3 X				
MACHINE DYNAMICS				
3	2	8	5600	IA

3 VIII				
RENEWABLE ENERGY				
3	0	6	5680	IA

3 VIII				
TOPOGRAPHY				
4	0	8	5980	IA

3 X				
INT TO AUTOMOTIVE ENGINEERING				
5	0	10	5745	IA

HUMANITIES BRANCH

III				
DIGITAL SKILLS WORKSHOP				
0	3	3	1007	CC

V				
SOCIAL TRENDS				
0	2	2	1008	CS

VI				
MANAGEMENT AND SOCIAL DEVELOPMENT				
0	2	2	1009	CS

VIII				
ART, CULTURE AND HUMANITIES I				
0	2	2	1012	CS

IX				
ART, CULTURE AND HUMANITIES II				
0	2	2	1013	CS

II				
ARTISTIC, SPORT OR OUTREACH ACTIVITIES				
0	2	2	1014	CS

II				
DESCRIPTIVE GEOMETRY				
0	5	5	1120	CB

- ACADEMIC REMARKS -

1. This subject requires having passed at least 135 credits.
2. This subject requires having passed at least 225 credits.
3. This subject requires having passed at least 315 credits.
4. This subject requires having passed at least 315 credits and having accredited the subjects of the 6th semester, except validation of the foreign language, and cannot be taken simultaneously with the *IM integral Project* (5669).
5. This subject requires having passed 360 credits.
6. Foreign language validation will be credited by obtaining 460 TOEFL ITP points on the English language proficiency assessment test.
7. This subject is accredited through the presentation of the *Egress General Test of the Bachelor Degree* (EGEL-IMECA). This exam must be presented in the last semester of the program.
8. This block represents 10 subjects with the name of *Activities for the Learning* I, II, III, IV, V, VI, VII, VIII, IX and X., with a consecutive code from 1916 to 1925.
9. The block represents 8 subjects with the name of *Mobility* I, II, III, IV, V, VI, VII, VIII.
10. This subject requires having approved 315 credits and cannot be taken simultaneously with IM integrative project (5669).

To accredit subjects with a laboratory, this last must be approved.
In order to obtain the internship, all the compulsory and elective credits necessary to cover at least 450 credits must be approved.

- PROGRAM GOAL -

The main objective of the Mechanical Engineering career is to train professionals of the highest level, capable of integrating into society in a dignified and effective manner. This professionals will apply his knowledge and skills to find effective solutions to technical problems of any kind, but presenting solutions based on a mechanical principle.