

**Instituto Tecnológico de Santo Domingo**

Register Department

MECHANICAL ENGINEERING (MEC) VERSION 2020

Program Credits: 280

General Education: 42

Specialized Education: 97

Professional Education: 141

Subject		CR	Prerequisites	Co-requirements	Req. Credits
<b>Quarter number: 1</b>					
AHC109	WRITING	4			0
AHO102	ACADEMIC AND INSTITUTIONAL GUIDANCE	0			0
CBA1X3	LIFE IN THE ENVIRONMENT (ELECTIVES)	2			
CBM101	ALGEBRA AND ANALYTICAL GEOMETRY	5			0
CSH112	CITIZENSHIP AND ETHICS	2			0
EAA1X1	ACADEMIC AREAS ELECTIVES I	2			
EAA1X2	ACADEMIC AREAS ELECTIVES II	2			
EAA1X3	ACADEMIC AREAS ELECTIVES III	2			
INM203	INTRODUCTION TO MECHANICAL ENGINEERING	2			0
SHI103	ENGLISH 01 (BASIC I)	0			0
		21			
<b>Quarter number: 2</b>					
AHC110	LINGUISTIC ARGUMENTATION	4	AHC109		0
CBM102	DIFFERENTIAL CALCULUS	5	CBM101		0
CSS102	HUMAN BEINGS AND SOCIETY: CONTEMPORARY SOCIAL ISSUES	2			0
EAA1X4	ACADEMIC AREAS ELECTIVES IV	2			
ING102	INTRODUCTION TO PROGRAMMING	2	CBM101		0
ING102L	INTRODUCTORY PROGRAMMING LABORATORY	0	CBM101	ING102	0
ING227	ENGINEERING GRAPHICS	4			0
ING227L	ENGINEERING GRAPHICS LABORATORY (AUTOCAD)	1		ING227	0
SHI104	ENGLISH 02 (BASIC II)	0	SHI103		0
		20			
<b>Quarter number: 3</b>					
AHQ101	SCIENTIFIC WORK	4			0
CBF210	MECHANICAL PHYSICS I	4	CBM102	CBM201	0
CBF210L	MECHANICAL PHYSICS LABORATORY I	1	CBM102	CBF210	0
CBM201	INTEGRAL CALCULUS	5	CBM102		0
CBQ207	CHEMISTRY I	4	CBM102		0
CBQ207L	CHEMISTRY LABORATORY I	1	CBM102	CBQ207	0
ING228	SPREADSHEET FOR ENGINEERS	1	ING102L ING102		0
SHI105	ENGLISH 03 (INTERMEDIATE I)	0	SHI104		0
		20			
<b>Quarter number: 4</b>					
CBF211	MECHANICAL PHYSICS II	4	CBM201 CBF210L CBF210		0
CBF211L	MECHANICAL PHYSICS LABORATORY II	1	CBF210L CBM201 CBF210	CBF211	0
CBM202	VECTOR CALCULATION	5	CBM201		0
EEE2X1	SPECIALIZED STUDY ELECTIVES I	0			
ING214	DATA ANALYSIS IN ENGINEERING	4	CBM201		0
ING229	INTRODUCTION TO MATERIALS SCIENCE	4	CBQ207 CBQ207L CBM201		0
ING229L	INTRODUCTORY MATERIALS SCIENCE LABORATORY	1	CBQ207 CBQ207L CBM201	ING229	0
INM204	MECHANICAL ENGINEERING COUNSELING I	0			35
SHI106	ENGLISH 04 (INTERMEDIATE II)	0	SHI105		0
		19			
<b>Trimester number: 5</b>					
CBF212	ELECTRICAL AND MAGNETIC PHYSICS	4	CBF211 CBM202 CBF211L		0

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CBF212L	ELECTRICAL AND MAGNETIC PHYSICS LABORATORY	1	CBF211L CBM202 CBF211	CBF212	0
CBM208	LINEAR ALGEBRA	5	CBM202		0
CSH113	CREATIVE THINKING	2			0
EEE2X2	SPECIALIZED STUDIES ELECTIVES II	0			
ING230	ENGINEERING ECONOMIC	4	CBM202		0
ING231	EXPERIMENTATION IN ENGINEERING	3	AHQ101 ING214		0
SHI107	ENGLISH 05 (ADVANCED I)	0	SHI106		0
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**Quarter number: 6**

CBM203	DIFFERENTIAL EQUATIONS	5	CBM208		0
CBM302	STATISTICAL INFERENCE	4	ING214		0
CSH105	GENERAL STUDIES INTEGRATIVE PROJECT	2			40
ING216	STATIC	4	CBF211L CBF211		0
ING216L	STATIC LABORATORY	1	CBF211L CBF211	ING216	0
ISE2E1	SOCIAL IMPACT (ELECTIVES)	4			
SHI108	ENGLISH 06 (ADVANCED II)	0	SHI107		0
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**Quarter number: 7**

INE377	CIRCUITS I	4	CBF212L CBF212		0
INE377L	CIRCUIT LABORATORY I	1	CBF212L CBF212	INE377	0
ING212	DYNAMIC	4	ING216L ING216		0
ING212L	DYNAMICS LABORATORY	1	ING216L ING216	ING212	0
ING234	MECHANICS OF DEFORMABLE SOLIDS	4	ING216 ING216L		0
ING234L	MECHANICS OF DEFORMABLE SOLIDS LABORATORY	1	ING216L ING216	ING234	0
INM201	MECHANICAL DRAWING I	4	ING227L ING227		0
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**Quarter number: 8**

INE378	CIRCUITS II	4			0
INE378L	CIRCUIT LABORATORY II	1	INE377L INE377	INE378	0
ING215	FLUID MECHANICAL	4	ING216 ING216L		0
ING215L	FLUID MECHANICAL LABORATORY	1	ING216 ING216L	ING215	0
INI383	MATERIALS SCIENCE AND ENGINEERING	4	ING234 ING234L ING229 ING229L		0
INI383L	MATERIALS SCIENCE AND ENGINEERING LABORATORY	1	ING234 ING234L ING229 ING229L	INI383	0
INM205	INTRODUCTION TO MODELING	1	ING102L ING102 CBM203		0
INM382	MECHANICAL DRAWING II	4	INM201		0
INM382L	MECHANICAL DRAWING LABORATORY II	1	INM201	INM382	0
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**Quarter number: 9**

CBM307	NUMERICAL ANALYSIS	4	CBM208		0
CBM307L	NUMERICAL ANALYSIS LABORATORY	1	CBM208	CBM307	0
IEC302	ELECTRONICS I	4	INE378 INE378L		0
IEC302L	ELECTRONICS LABORATORY I	1	INE378 INE378L	IEC302	0
INM305	MECHANISMS	4	ING212L ING212L	INM349	0
INM349	ASSISTED ENGINEERING I	1	INM382L INM382	INM305	0
INM381	RESISTANCE OF MATERIAL II	4	ING234 ING234L		0
INM381L	RESISTANCE OF MATERIALS LABORATORY II	1	ING234 ING234L	INM381	0
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**Quarter number: 10**

INM329	MACHINE ELEMENTS DESIGN I	4	INM381 INM381L INM349	INM356	0
INM350	FLUID MECHANICAL II	4	ING215L ING215		0
INM350L	FLUID MECHANICAL LABORATORY II	1	ING215L ING215	INM350	0
INM355	INDUSTRIAL PROCESSES I	4	INI383L INI383		0
INM355L	INDUSTRIAL PROCESSES LABORATORY I	1	INI383L INI383	INM355	0
INM356	ASSISTED ENGINEERING II	1		INM329	0
INM368	MODELING AND SIMULATION	4	CBM307L INM205 CBM307		0
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		19			

**Quarter number: 11**

INM300	THERMODYNAMICS I	4	INM350 INM350L	INM359	0
INM336	MACHINE ELEMENTS DESIGN II	4	INM329		0
INM354	MECHANICAL VIBRATIONS	4	INM305		0
INM354L	MECHANICAL VIBRATIONS LABORATORY	1	INM305	INM354	0
INM358	INDUSTRIAL PROCESSES II	4	INM355L INM355		0
INM358L	INDUSTRIAL PROCESSES LABORATORY II	1	INM355L INM355	INM358	0
INM359	INSTRUMENTATION AND MEASURES	1	INE377L INE377	INM300	0
INM383	MECHANICAL ENGINEERING COUNSELING II	0	INM204		0
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		19			

**Quarter number: 12**

INE394	FUNDAMENTALS OF ELECTRIC MACHINES	3	INE378 INE378L		0
INE394L	LABORATORY FUNDAMENTALS OF ELECTRICAL MACHINES	1	INE378L INE378	INE394	0
INM357	THERMODYNAMICS II	4	INM300		0
INM357L	THERMODYNAMIC LABORATORY II	1	INM300	INM357	0
INM367	METALLURGY	4	INI383L INI383		0
INM367L	METALLURGY LABORATORY	1	INI383L INI383	INM367	0
INM384	MACHINE ELEMENTS DESIGN III	4	INM336		0
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		18			

**Quarter number : 13**

EEP3X1	PROFESSIONALIZING STUDIES ELECTIVES I	0			
INM318	MAINTENANCE SYSTEMS MANAGEMENT	4			0
INM362	HEAT TRANSFER	4	INM357L INM357		0
INM362L	HEAT TRANSFER LABORATORY	1	INM357L INM357	INM362	0
INM398	MECHANICAL ENGINEERING PROJECT I	4	INM384		0
INM399	MECHANICAL ENGINEERING INTERNSHIP	4			0
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		17			

**Quarter number: 14**

EEP3X2	PROFESSIONALIZING STUDIES ELECTIVES II	0			
EEP3X3	PROFESSIONALIZING STUDIES ELECTIVES III	0			
INM360	DYNAMIC SYSTEMS CONTROL	4	INM368 INM329		0
INM363	PRODUCT DESIGN & ENGINEERING	4	INM329		0
INM364	MECHANICAL ENGINEERING PROJECT II	4	INM398		0
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		12			