

Instituto Tecnológico de Santo Domingo

Office of Registrar

ELECTRICAL ENGINEERING (ELE) VERSION 2020

Program Credits: 276

Subject		CR	Pre requirements	corequisites _	Req . credits
Quarter number : 1					
AHC109	WRITING	4			0
AHO102	ACADEMIC AND INSTITUTIONAL ORIENTATION	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			
INE203	INTRODUCTION TO ELECTRICAL ENGINEERING	2			0
SHI103	ENGLISH 01 (BASIC I)	0			0
		17			
Quarter number : 2					
AHC110	LINGUISTIC ARGUMENTATION	4	AHC109		0
CBM102	DIFERENTIAL CALCULUS	5	CBM101		0
CSS102	HUMAN BEING AND SOCIETY: CONTEMPORARY SOCIAL ISSUES	2			0
EAA1X2	ACADEMIC AREAS ELECTIVES II	2			
ING102	INTRODUCTION TO PROGRAMMING	2	CBM101	ING102L	0
ING102L	INTRODUCTION TO PROGRAMMING LABORATORY	0	CBM101	ING102	0
ING227	GRAPHICS IN ENGINEERING	4		ING227L	0
ING227L	ENGINEERING GRAPHICS LABORATORY (AUTOCAD)	1		ING227	0
SHI104	ENGLISH 02 (BASIC II)	0	SHI103		0
		20			
Quarter number : 3					
CBF210	MECHANICAL PHYSICS I	4		CBM201	0
CBF210L	MECHANICAL PHYSICS I LABORATORY	1		CBF210	0
CBM201	INTEGRAL CALCULUS	5	CBM102		0
CBQ207	CHEMISTRY I	4	CBM102	CBQ207L	0
CBQ207L	CHEMISTRY I LABORATORY	1	CBM102	CBQ207	0
EAA1X3	ACADEMIC AREAS ELECTIVES III	2			
INE204	ELECTRICAL ENGINEERING COUNSELING I	0	INE203		0
ING228	SPREADSHEET FOR ENGINEERS	1	ING102L ING102		0
SHI105	ENGLISH 03 (INTERMEDIATE I)	0	SHI104		0
		18			
Quarter number : 4					
AHQ101	SCIENTIFIC WORK	4			0
CBF211	MECHANICAL PHYSICS II	4	CBM201 CBF210L CBF210	CBF211L	0
CBF211L	MECHANICAL PHYSICS LABORATORY II	1	CBM201 CBF210L CBF210	CBF211	0
CBM202	VECTOR CALCULATION	5	INE204 CBM201		0
CSH113	CREATIVE THINKING	2			0
ING229	INTRODUCTION TO MATERIAL SCIENCE	4	CBQ207 CBQ207L	ING229L	0
ING229L	INTRODUCTION TO MATERIAL SCIENCE LABORATORY	1	CBQ207 CBQ207L	ING229	0
SHI106	ENGLISH 04 (INTERMEDIATE II)	0	SHI105		0
		21			
Quarter number : 5					
CBF212	ELECTRICAL AND MAGNETIC PHYSICS	4	CBF211 CBF211L CBM202		0
CBF212L	ELECTRICAL AND MAGNETIC PHYSICS LABORATORY	1	CBF211L CBF211 CBM202	CBF212	0
CBM208	LINEAR ALGEBRA	5	CBM202		0
EAA1X4	ACADEMIC AREAS ELECTIVES IV	2			

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ING214	DATA ANALYSIS IN ENGINEERING	4	CBM201		0
INS213	ALGORITHMS PROGRAMMING AND DESIGN	4	ING102	ING102L	0
INS213L	ALGORITHMS PROGRAMMING AND DESIGN LABORATORY	1	ING102	ING102L	INS213
SHI107	ENGLISH 05 (ADVANCED I)	0	SHI106		0
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		21			

Quarter number : 6

CBM203	DIFFERENTIAL EQUATIONS	5	CBM208		0
CSH105	INTEGRATING PROJECT OF GENERAL STUDIES	2			40
ECO203	INTRODUCTION TO ECONOMICS	4			0
EEE2X1	SPECIALIZED STUDIES I ELECTIVES	0			
ING230	ECONOMIC ENGINEERING	4	CBM202		0
INS218	ALGORITHM PROGRAMMING AND DESIGN LABORATORY (PYTHON LANGUAGE)	1	INS213L	INS213	0
SHI108	ENGLISH 06 (ADVANCED II)	0	SHI107		0
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		16			

Quarter number : 7

CBF213	ELECTROMAGNETIC AND OPTIC PHYSICS	4	CBF212	CBF212L	0
CBF213L	ELECTROMAGNETIC AND OPTIC PHYSICS LABORATORY	1	CBF212L	CBF212	CBF213
CBM311	MATHEMATICAL METHODS FOR ENGINEERS	4	CBM203		0
ELE301	COMPUTER TOOLS FOR ENGINEERING	2	INS213L	INS213	0
ELE301L	COMPUTER TOOLS FOR ENGINEERING LABORATORY	1	INS213L	INS213	ELE301
INE206	STATIC SEMINAR	1			0
INE207	FLUID MECHANICS SEMINAR	1			0
INE377	CIRCUITS I	4	CBF212L	CBF212	0
INE377L	CIRCUITS LABORATORY I	1	CBF212L	CBF212	INE377
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		19			

Quarter number : 8

EEE2X2	SPECIALIZED STUDIES II ELECTIVES	0			
ELE302	NUMERICAL APPLICATION FOR ENGINEERING	4	CBM203	ELE301	0
ELE302L	NUMERICAL APPLICATION FOR ENGINEERING LABORATORY	1	CBM203		ELE302
INE336	ELECTROMAGNETIC FIELDS	4	CBF213L	CBF213	0
INE378	CIRCUITS II	4	CBM203	INE377L	INE377
INE378L	CIRCUITS LABORATORY II	1	CBM203	INE377L	INE377
ING231	EXPERIMENTATION IN ENGINEERING	3	AHQ101	ING214	0
ISE2E1	SOCIAL IMPACT (ELECTIVE)	4			
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		21			

Quarter number : 9

ELE303	ELECTRICAL INSTALLATIONS DESIGN	4	INE378L	INE378	ING227
			ING227L		
ELE303L	ELECTRICAL INSTALLATIONS DESIGN LABORATORY	1	INE378L	ING227	INE378
			ING227L		ELE303
INE383	TRANSMISSION LINES	4	ELE301	INE378L	ELE301L
			INE378	INE336	
INE383L	TRANSMISSION LINES LABORATORY	1	INE378	INE378L	INE336
			ELE301	ELE301L	INE383
INE392	COMMUNICATIONS	4	ELE301	INE378L	ELE301L
			INE378	INE336	
INE392L	COMMUNICATIONS LABORATORY	1	ELE301	INE378L	ELE301L
			INE378	INE336	INE392
INL370	FUNDAMENTALS OF ELECTRONICS	4	INE378L	INE378	
INL370L	FUNDAMENTALS OF ELECTRONICS LABORATORY	1	INE378L	INE378	INL370

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20				
Quarter number : 10				
ELE304	COMMUNICATIONS IN ELECTRICAL SYSTEMS	4	INE392L INL370L INE392 INL370	0
ELE304L	COMMUNICATIONS IN ELECTRICAL SYSTEMS LABORATORY	1	INE392L INE392 INL370L INL370	ELE304 0
ELE305	EFFICIENCY AND ELECTRICAL AUDIT	3	INE377L INE377	0
INE205	ELECTRICAL ENGINEERING COUNSELING II	0		140
INE380	ELECTRICAL MACHINES I	4	ELE301 INE336 ELE301L INE378L INE378	0
INE380L	ELECTRICAL MACHINES LABORATORY I	1	ELE301 INE378L ELE301L INE378 INE336	INE380 0
ING211	PROJECT FORMULATION	4	ING231 ING230	0
INM300	THERMODYNAMICS I	4	CBF211L CBF211	0
21				
Quarter number : 11				
INE366	ELECTRICAL SUBSTATIONS	4	ELE304L INE380L ELE304 INE380	0
INE385	ELECTRICAL MACHINES II	4	INE380L INE380	0
INE385L	ELECTRICAL MACHINES LABORATORY II	1	INE380L INE380	INE385 0
INE386	CONTROL SYSTEMS I	4	CBM311 INL370L INL370	0
INE386L	CONTROL SYSTEMS LABORATORY I	1	CBM311 INL370L INL370	INE386 0
INE387	POWER SYSTEMS I	4	ELE302 INE383L ELE302L INE383 INE380L INE380	0
INE387L	POWER SYSTEMS LABORATORY I	1	ELE302 INE383 ELE302L INE383L INE380L INE380	INE387 0
INE393	QUALITY ASSURANCE AND MANAGEMENT	2	ING211	0
21				
Quarter number : 12				
EEP3X1	PROFESSIONALIZING STUDIES I ELECTIVES	0		
ELE306	ELECTRICAL PROJECT MANAGEMENT WORKSHOP	2	ING211	0
INE365	POWER PLANTS	4	INM300 INE385L INE385	0
INE391	POWER SYSTEMS II	4	INE387 INE387L	0
INE391L	POWER SYSTEMS LABORATORY II	1	INE387L INE387	INE391 0
INL354	POWER ELECTRONICS	4	INL370L INL370 INE386L INE386	0
INL354L	POWER ELECTRONICS LABORATORY	1	INE386L INE386 INL370L INL370	INL354 0
16				
Quarter number : 13				
EEP3X2	PROFESSIONALIZING STUDIES II ELECTIVES	0		
ELE307	ELECTRICAL RESEARCH PRACTICE I	4	ELE306 INE391	0
INE388	AUTOMATION, CONTROL AND INSTRUMENTATION	4	INE386L INE386 ELE304L ELE304	INE388L 0
INE388L	AUTOMATION, CONTROL AND INSTRUMENTATION LABORATORY	1	INE386L INE386 ELE304L ELE304	INE388 0
INE390	ELECTRICAL MARKETS	4	ECO203 INE387L INE387	0
INI383	MATERIAL SCIENCE AND ENGINEERING	4	ING229L ING229	0
INI383L	MATERIAL SCIENCE AND ENGINEERING LABORATORY	1	ING229L ING229	INI383 0
18				
Quarter number : 14				
EEP3X3	PROFESSIONALIZING STUDIES III ELECTIVES	0		

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ELE308	ELECTRICAL RESEARCH PRACTICE II	4	ELE307			0
ELE309	SMARTGRID AND ELECTRIC MOBILITY	2	ELE304L INE390 ELE304		INE384	0
INE384	RENEWABLE ENERGY SYSTEMS I	4	INE385 INE385L			0
INE384L	RENEWABLE ENERGY SYSTEMS LABORATORY I	1	INE385L INE385		INE384	0
		<u>11</u>				