

Instituto Tecnológico de Santo Domingo

Office of Registrar

INDUSTRIAL ENGINEERING (IND) 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			
EAA1X2 ACADEMIC AREAS ELECTIVES II	2			
INI201 INDUSTRIAL ENGINEERING INTRODUCTION	2			0
SHI103 ENGLISH 01 (BASIC I)	0			0
	<u>19</u>			
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
EAA1X3 ACADEMIC AREAS ELECTIVES III	2			
ING102 PROGRAMMING INTRODUCTION	2	CBM101		0
ING102L PROGRAMMING INTRODUCTION LABORATORY	0	CBM101		0
ING227 ENGINEERING GRAPHICS	4			0
ING227L ENGINEERING GRAPHICS LABORATORY (AUTOCAD)	1		ING227	0
SHI104 ENGLISH 02 (BASIC II)	0	SHI103		0
	<u>20</u>			
Quarter number : 3				
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
EAA1X4 ACADEMIC AREAS ELECTIVES IV	2			
ING228 SPREADSHEET FOR ENGINEERS	1	ING102 ING102L		0
INI339 INDUSTRIAL ENGINEERING SEMINAR	2	INI201 AHC110		0
SHI105 ENGLISH 03 (INTERMEDIATE I)	0	SHI104		0
	<u>20</u>			
Quarter number : 4				
AHQ101 SCIENTIFIC WORK	4			0

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CBF211	MECHANICAL PHYSICS II	4	CBF210 CBF210L CBM201		0
CBF211L	MECHANICAL PHYSICS LABORATORY II	1	CBF210 CBM201 CBF210L	CBF211	0
CBM202	VECTOR CALCULATION	5	CBM201		0
CSH113	CREATIVE THINKING	2			0
ING229	MATERIALS SCIENCE INTRODUCTION	4	CBM201 CBQ207 CBQ207L		0
ING229L	MATERIALS SCIENCE INTRODUCTORY LABORATORY	1	CBM201 CBQ207 CBQ207L	ING229	0
INI202	PROFESSIONAL COUNSELING INI I	0			0
SHI106	ENGLISH 04 (INTERMEDIATE II)	0	SHI105		0
		<u>21</u>			

Quarter number : 5

CBF212	ELECTRICAL AND MAGNETIC PHYSICS	4	CBF211 CBM202 CBF211L	CBF212L	0
CBF212L	ELECTRICAL AND MAGNETIC PHYSICS LABORATORY	1	CBF211 CBM202 CBF211L	CBF212	0
CBM208	LINEAR ALGEBRA	5	CBM202		0
CON213	ACCOUNTING FUNDAMENTALS	2			0
EEE2X1	SPECIALIZED STUDIES I ELECTIVES	0			0
INS213	ALGORITHMS PROGRAMMING AND DESIGN	4	ING102 ING102L		0
INS213L	ALGORITHMS PROGRAMMING AND DESIGN LABORATORY	1	ING102 ING102L	INS213	0
SHI107	ENGLISH 05 (ADVANCED I)	0	SHI106		0
		<u>17</u>			

Quarter number : 6

CBM203	DIFFERENTIAL EQUATIONS	5	CBM208		0
CSH105	INTEGRATING PROJECT OF GENERAL STUDIES	2			40
IIN201	ECONOMIC AND FINANCIAL EDUCATION SEMINAR	1			0
ING214	DATA ANALYSIS IN ENGINEERING	4	CBM201		0
ING216	STATIC	4	CBF211 CBF211L		0
ING230	ECONOMIC ENGINEERING	4	CBM202		0
SHI108	ENGLISH 06 (ADVANCED II)	0	SHI107		0
		<u>20</u>			

Quarter number : 7

ING212	DYNAMICS	4	ING216		0
ING212L	DYNAMICS LABORATORY	1	ING216	ING212	0
ING234	DEFORMABLE SOLIDS MECHANICS	4	ING216		0
ING234L	DEFORMABLE SOLIDS MECHANICS LABORATORY	1	ING216	ING234	0
INI381	QUALITY MANAGEMENT I	4	ING228 INI339		0

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INI382	INDUSTRIAL STATISTICS	4	ING214		0
INI382L	INDUSTRIAL STATISTICS LABORATORY	1	ING214	INI382	0
INM201	MECHANICAL DRAWING I	4	ING227	ING227L	0
		<u>23</u>			

Quarter number : 8

EEE2X2	SPECIALIZED STUDIES II ELECTIVES	0			
IIN316	PROCESSES I SEMINAR	1	INI381		0
ING211	PROJECT FORMULATION	4			0
ING215	FLUID MECHANICS	4	ING216		0
ING215L	FLUID MECHANICS LABORATORY	1	ING216	ING215	0
INI326	INDUSTRIAL DEVELOPMENT EVOLUTION	2	INI339	INI381	0
INI383	MATERIAL SCIENCE AND ENGINEERING	4	ING229	ING234	ING229L
			ING234L		0
INI383L	MATERIAL SCIENCE AND ENGINEERING LABORATORY	1	ING229	ING234	ING229L
			ING234L	INI383	0
ISE2E1	SOCIAL IMPACT (ELECTIVE)	4			
		<u>21</u>			

Quarter number : 9

IIN317	PROCESSES II SEMINAR	1	IIN316		0
IIN318	MATERIALS SELECTION	2	INI383L	INM201	INI383
					0
IIN319	INDUSTRIAL ELECTRICAL CIRCUITS	4	CBF212	CBF212L	0
IIN319L	INDUSTRIAL ELECTRICAL CIRCUITS LABORATORY	1	CBF212L	CBF212	IIN319
					0
ING305	PROJECT MANAGEMENT	3	ING211		0
ING305L	PROJECT MANAGEMENT LABORATORY	1	ING211	ING305	0
INI384	METHODS ENGINEERING	4	INI326	INI382L	INI382
					0
INM300	THERMODYNAMICS I	4	ING212L	ING212	0
		<u>20</u>			

Quarter number : 10

IIN320	PROFESSIONAL COUNSELING INI II	0	INI202		0
IIN331	SAFETY AND INDUSTRIAL HYGIENE	3	INI384		0
INI307	PRODUCTION SYSTEMS DESIGN I	4	INI384		0
INI307L	PRODUCTION SYSTEMS DESIGN LABORATORY I	1	INI384	INI307	0
INI388	QUALITY MANAGEMENT II	4	INI381		0
INI394	EXPERIMENTS DESIGN	4	INI382	INI382L	0
INI394L	EXPERIMENTS DESIGN LABORATORY	1	INI382L	INI382	INI394
					0
INM355	INDUSTRIAL PROCESSES I	4	INI383L	INM201	INI383
					0
INM355L	INDUSTRIAL PROCESSES LABORATORY I	1	INI383	INI383L	INM201
				INM355	0
		<u>22</u>			

Quarter number : 11

IIN321	INDUSTRIAL ORGANIZATIONS DEVELOPMENT	2	INI326	INI388	0
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INI385	PROCESS AUTOMATION	4	IIN319 IIN319L INI307		0
INI385L	PROCESS AUTOMATION LABORATORY	1	IIN319 IIN319L INI307	INI385	0
INI391	OPERATIONAL RESEARCH I	4	INI384 ING305 INI382 ING305L		0
INI391L	OPERATIONAL RESEARCH LABORATORY I	1	ING305 INI384 ING305L INI382	INI391	0
INI392	PRODUCTION SYSTEMS DESIGN II	4	INI307L INI307		0
INI392L	PRODUCTION SYSTEMS DESIGN LABORATORY II	1	INI307L INI307	INI392	0
INM358	INDUSTRIAL PROCESSES II	4	INM355L INM355		0
INM358L	INDUSTRIAL PROCESSES LABORATORY II	1	INM355L INM355	INM358	0
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		22			

Quarter number : 12

IIN301	SUPPLY CHAIN ENGINEERING	4	IIN321 INI391 INI392L INI391L INI392		0
IIN323	LEGAL ASPECTS SEMINAR	1	INI388		0
IIN324	EFFECTIVE SUPERVISION	2	INI388 INI307		0
IIN325	QUALITY ASSURANCE AND IMPROVEMENT	4	INI394 INI394L INI307 INI388		0
INI323	PROCESS COSTS ANALYSIS	4	CON213 INI384		0
INI393	OPERATIONAL RESEARCH II	4	INI391 INI391L		0
INI393L	OPERATIONAL RESEARCH LABORATORY II	1	INI391L INI391	INI393	0
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		20			

Quarter number : 13

EEP3X1	PROFESSIONALIZING STUDIES I ELECTIVES	0			
IIN322	INNOVATION MODELS	2	IIN321 INI388		0
IIN328	INDUSTRIAL ENGINEERING PROJECT I (CAPSTONE PROJECT)	4	INI392 INI391 INI393 IIN325 IIN301		0
INI378	PLANNING AND CONTROL OF SYSTEMS	4	INI323 INI393L INI393 INI392L INI392		0
INI395	DESIGN FOR MANUFACTURING	4	INI323 INI392L INI392 INI385L INI385		0
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		14			

Quarter number : 14

EEP3X2	PROFESSIONALIZING STUDIES II ELECTIVES	0			
EEP3X3	PROFESSIONALIZING STUDIES III ELECTIVES	0			
IIN327	SUSTAINABLE PROCESSES SEMINAR	1	INI392 IIN301 INM358 INI323		0
IIN329	PROFESSIONAL INTERNSHIP	2	INI392 INI388		0
IIN330	INDUSTRIAL ENGINEERING PROJECT II (CAPSTONE PROJECT)	2	IIN328 INI378 INI395		0
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		5			

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