

Instituto Tecnológico de Santo Domingo

Office of Registrar

MECHATRONICS ENGINEERING (IMC) VERSION 2016

Program Credits: 278

Subject	CR	Pre requirements	corequisites _	Req . credits
Quarter number : 1				
AHC101	4			0
AHO101	2			0
ASH1X4	2			
CBM101	5			0
CSS101	4			0
SHI103	0			0
	17			
Quarter number : 2				
AHC102	4	AHC101		0
AHQ101	4			0
CBM102	5	CBM101		0
CSH102	2			0
IMC101	0			0
INM201	4			0
SHI104	0	SHI103		0
	19			
Quarter number : 3				
CBF210	4		CBF210L	0
CBF210L	1		CBF210	0
CBM201	5	CBM102		0
IMC102	0	IMC101		0
INM202	4	INM201		0
INS213	4	CBM101	INS213L	0
INS213L	1	CBM101	INS213	0
SHI105	0	SHI104		0
	19			
Quarter number : 4				
CBF211	4	CBF210 CBF210L	CBF211L	0
CBF211L	1	CBF210L CBF210	CBF211	0
CBM202	5	CBM201		0
CBM206	4	CBM201		0
CBQ207	4	CBM102	CBQ207L	0
CBQ207L	1	CBM102	CBQ207	0
IMC1X1	0			
SHI106	0	SHI105		0
	19			
Quarter number : 5				
CBF212	4	CBF211 CBF211L	CBF212L	0
CBF212L	1	CBF211L CBF211	CBF212	0
CBM208	5	CBM202		0
CBQ208	4	CBQ207 CBQ207L	CBQ208L	0
CBQ208L	1	CBQ207 CBQ207L	CBQ208	0
IMC103	0	IMC102		0
ING216	4	CBF211 CBF211L	ING216L	0
ING216L	1	CBF211 CBF211L	ING216	0
SHI107	0	SHI106		0

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		20			
Quarter number : 6					
CBA1X2	ELECTIVE LIFE IN THE ENVIRONMENT	4			
CBM203	DIFFERENTIAL EQUATIONS	5	CBM208	0	
IMC2X1	ELECTIVE SEMINAR II	0			
ING212	DYNAMICS	4	ING216 ING216L	ING212L	0
ING212L	DYNAMICS LABORATORY	1	ING216 ING216L	ING212	0
ING217	MATERIALS RESISTANCE	4	ING216 ING216L	ING217L	0
ING217L	MATERIALS RESISTANCE LABORATORY	1	ING216 ING216L	ING217	0
SHI108	ENGLISH 06 (ADVANCED II)	0	SHI107		0
		19			
Quarter number : 7					
CBM307	NUMERICAL ANALYSIS	4	CBM208	CBM307L	0
CBM307L	NUMERICAL ANALYSIS LABORATORY	1	CBM208	CBM307	0
CSH103	INNOVATION AND ENTREPRENEURSHIP	2			0
IMC204	HANDS ON PROGRAM 3	0	IMC103		0
INE377	CIRCUITS I	4	CBF212 CBF212L	INE377L	0
INE377L	CIRCUITS LABORATORY I	1	CBF212 CBF212L	INE377	0
ING210	RESEARCH IN ENGINEERING	3	AHQ101 CBM206		0
INM305	MECHANISMS	4	ING212 ING212L	INM396	0
INM396	ASSISTED ENGINEERING (CAE) I	1		INM305	0
		20			
Quarter number : 8					
CBM311	MATHEMATICAL METHODS FOR ENGINEERS	4	CBM203		0
IMC2X2	ELECTIVE SEMINAR III	0			
INE378	CIRCUITS II	4	INE377 INE377L	INE378L	0
INE378L	CIRCUITS LABORATORY II	1	INE377 INE377L	INE378	0
ING215	FLUID MECHANICS	4	ING212 ING212L	ING215L	0
ING215L	FLUID MECHANICS LABORATORY	1	ING212 ING212L	ING215	0
INM328	MODELING AND SIMULATION	3	INM305		0
		17			
Quarter number : 9					
ASH1X3	HISTORICAL-CULTURAL ELECTIVE	4			
IMC205	HANDS ON PROGRAM 4	0	IMC204		0
INL343	ELECTRONICS I	4	INE378 INE378L	INL343L	0
INL343L	ELECTRONICS LABORATORY I	1	INE378 INE378L	INL343	0
INL349	DIGITAL ELECTRONIC	4	INE377 INE377L INS213 INS213L	INL349L	0
INL349L	DIGITAL ELECTRONICS LABORATORY	1	INE377 INE377L INS213 INS213L	INL349	0
INM329	MACHINERY ELEMENTS DESIGN I	4	ING217 ING217L INM305		0
INM397	ASSISTED ENGINEERING (CAE) II	1		INM329	0
		19			
Quarter number : 10					
IMC3X1	SEMINAR IV ELECTIVE	0			
INI383	MATERIALS SCIENCE AND ENGINEERING	4	CBQ208 CBQ208L ING217 ING217L	INI383L	0
INI383L	MATERIALS SCIENCE AND ENGINEERING LABORATORY	1	CBQ208 CBQ208L ING217 ING217L	INI383	0
INL350	ELECTRONICS II	4	INL343 INL343L	INL350L	0

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INL350L	ELECTRONICS LABORATORY II	1	INL343 INL343L	INL350	0
INL352	DIGITAL SYSTEMS	4	INL349 INL349L	INL352L	0
INL352L	DIGITAL SYSTEMS LABORATORY	1	INL349 INL349L	INL352	0
INM336	MACHINERY ELEMENTS DESIGN II	4	INM329		0
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Quarter number : 11

CSH105	INTEGRATING PROJECT OF GENERAL STUDIES	2			42
IMC328	HANDS ON PROGRAM 5	0	IMC205		0
INE386	CONTROL SYSTEMS I	4	CBM311 INL343 INL343L	INE386L	0
INE386L	CONTROL SYSTEMS LABORATORY II	1	CBM311 INL343 INL343L	INE386	0
INI301	ECONOMIC ENGINEERING	4	CBM206		0
INM300	THERMODYNAMICS I	4	ING212 ING212L		0
INM376	INDUSTRIAL PROCESSES I	4	INI383 INI383L ING217 ING217L	INM376L	0
INM376L	INDUSTRIAL PROCESSES LABORATORY I	1	INI383 ING217 ING217L	INM376	0
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Quarter number : 12

IMC329	COMPUTER ASSISTED DESIGN AND MANUFACTURING	4		IMC329L	180
IMC329L	COMPUTER ASSISTED DESIGN AND MANUFACTURING LABORATORY	1		IMC329	180
INI322	QUALITY TOOLS	2	CBM206		0
INL353	CONTROL SYSTEMS II	4	INE386 INE386L	INL353L	0
INL353L	CONTROL SYSTEMS LABORATORY II	1	INE386 INE386L	INL353	0
INL354	POWER ELECTRONICS	4	INE386 INE386L INL343 INL343L	INL354L	0
INL354L	POWER ELECTRONICS LABORATORY	1	INE386 INE386L INL343 INL343L	INL354	0
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Quarter number : 13

ADM315	ADMINISTRATION AND BUSINESS MANAGEMENT	4			180
IMC330	MECHATRONIC SYSTEMS DESIGN	4		IMC330L	180
IMC330L	MECHATRONIC SYSTEMS DESIGN LABORATORY	1		IMC330	180
IMC331	INDUSTRIAL INSTRUMENTATION	4	INE377 INE377L	IMC331L	180
IMC331L	INDUSTRIAL INSTRUMENTATION LABORATORY	1	INE377 INE377L	IMC331	180
IMC337	HANDS ON PROGRAM 6	0	IMC328		0
INE398	ELECTRONIC DEVICES APPLICATION	4	INE378 INE378L		180
INE398L	ELECTRONIC DEVICES APPLICATION LABORATORY	1	INE378 INE378L		180
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Quarter number : 14

IMC310	SYSTEMS FOR AUTOMATED ASSEMBLY	4			180
IMC319	MECHATRONIC ENGINEERING PROJECT I	3	IMC330		0
IMC332	PNEUMATIC AND HYDRAULIC CIRCUITS	4	INE377 INE377L	IMC332L	180
IMC332L	PNEUMATIC AND HYDRAULIC CIRCUITS LABORATORY	1	INE377 INE377L	IMC332	180
IMC333	CONTROL DESIGN AND PROGRAMMING	4	INL350 INL350L INL352 INL352L	IMC333L	0
IMC333L	CONTROL DESIGN AND PROGRAMMING LABORATORY	1	INL350 INL350L INL352 INL352L	IMC333	0
IMC334	INDUSTRIAL TOURS	0			200
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Quarter number : 15

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IMC309	MECHATRONIC ENGINEERING PROJECT II	3	IMC319		0
IMC313	RELIABILITY CENTERED MAINTENANCE (RCM)	4			180
IMC335	INDUSTRIAL ROBOTICS	4	IMC333 BMI333L	IMC335L	0
IMC335L	INDUSTRIAL ROBOTICS LABORATORY	1	IMC333 BMI333L	IMC335	0
IMC336	PROGRAMMABLE LOGIC CONTROLLERS (PLC)	4	IMC333 BMI333L	IMC336L	0
IMC336L	PROGRAMMABLE LOGIC CONTROLLERS LABORATORY	1	IMC333 BMI333L	IMC336	0
IMC338	HANDS ON PROGRAM 7	0	IMC337		0
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		17			