

INFORMATION SYSTEMS ENGINEERING



▶▶ LEVELS OF ACHIEVEMENT ■ 1 = BEGINNER ■ 2 = INTERMEDIATE ■ 3 = ADVANCED

▶▶ CORE CREDITS 35 ▶▶ MANDATORY PROGRAM CREDITS 147 ▶▶ ELECTIVE CREDITS 18

COURSE NAME	CREDITS	COURSE TYPE	CORE COMPETENCIES										SPECIFIC COMPETENCIES										REQUIREMENTS
			Written Communication	Oral Communication	Critical Thinking	Quantitative Reasoning	Information Literacy	Citizenship	Innovative Thinking	A- Subject Knowledge Application	B- Experiment Planning and Conducting	C- Process and System Design	D- Multidisciplinary Teamwork	E- Engineering Problem Solving	F- Ethical and Professional Responsibility	G- Effective Communication	H- Engineering Solution Impact Assessment	I- Continuous and Independent Learning	J- Contemporary Knowledge	K- Use of Modern E-Engineering Tools			
▶▶ TERM 1 CRD 21																							
Language Comprehension and Production I	4	CORE	1																				HU24 Leveling of language or have approved Language PDN (level definition test)
Basic Mathematics	6	CORE			1																		MA393 Leveling Math or have approved Matho PDN (level definition test)
Programming I	6	PROGRAM		1							1												MA393 Leveling Math or have approved Matho PDN (level definition test)
Creativity Workshop	3	CORE																					Does not have requirements
Ethics and Citizenship	2	CORE					1																HU24 Leveling of language or have approved Language PDN (level definition test)
▶▶ TERM 2 CRD 21																							
Language Comprehension and Production II	4	CORE	2	1																			HU03 Language Comprehension and Production I
Calculus I	6	CORE			1																		MA420 Basic Mathematics
Business Organization and Management	4	PROGRAM					1																Does not have requirements
Programming II	5	PROGRAM			2						1												CC47 Programming I
Academic Research Seminar I	2	CORE	1			1																	HU03 Language Comprehension and Production I
▶▶ TERM 3 CRD 20																							
Accounting and Budgeting	4	CORE					2																AD99 Business Organization and Management
Requirement Specification and Analysis	3	PROGRAM	1																				AD99 Business Organization and Management
Fundamentals of Information Systems	3	PROGRAM				1					1												CC67 Programming II and simultaneously with MA265 Discrete Mathematics
Physics I	4	CORE		1		1																	MA262 Calculus I and MA95 Leveling of Physics or have approved Physics PDN (level definition test)
Discrete Mathematics	6	PROGRAM				1																	MA420 Basic Mathematics and CC47 Programming I
▶▶ TERM 4 CRD 23																							
Database Design	4	PROGRAM					1														1		SI393 Fundamentals of Information Systems
Computer Architecture and Operating Systems	5	PROGRAM					1				1												MA265 Discrete Mathematics
Computational Mathematics	4	PROGRAM				1																	MA262 Calculus I
HCI and Mobile Technologies	4	PROGRAM									1												SI393 Fundamentals of Information Systems
Physics II	6	PROGRAM			2	2																	MA466 Physics I
▶▶ TERM 5 CRD 23																							
Fundamentals of Business Architecture	4	PROGRAM						1			2										1		SI400 Database Design
Calculus II	6	PROGRAM				1																	MA262 Calculus I
Physics III	6	PROGRAM				3																	MA462 Physics II
Data Networks and Communication	4	PROGRAM				2															1		SI407 Computer Architecture and Operating Systems
Social Media	3	PROGRAM						2													1		SI385 HCI and Mobile Technologies
▶▶ TERM 6 CRD 20																							
Business Architecture Analysis and Design	5	PROGRAM	1								2												SI414 Fundamentals of Business Architecture
Finance and Economic Engineering	4	PROGRAM				2																	CAS9 Accounting and Budgeting
Digital Analytics	4	PROGRAM				2															1		SI378 Social Media
Applied Statistics 1	4	PROGRAM			1	2																	MA262 Calculus I
Web Programming	3	PROGRAM				2					2												SI385 HCI and Mobile Technologies
▶▶ TERM 7 CRD 20																							
Experiment Design in IS	4	PROGRAM					2														1		MA469 Applied Statistics 1
Business Systems Implementation	5	PROGRAM						1					1								1		SI423 Business Architecture Analysis and Design and SI418 Web Programming
Fundamentals in Security and Audit	4	PROGRAM						1														1	SI414 Fundamentals of Business Architecture
Sustainable Business Entrepreneurship	3	PROGRAM									2												SI405 Finance and Economic Engineering
Mobile and Cloud Solutions	4	PROGRAM	2																		1		SI418 Web Programming and SI395 Data Networks and Communication
▶▶ TERM 8 CRD 17																							
Academic Research Seminar II (Engineering)	3	PROGRAM																					HU159 Academic Research Seminar I and 145 approved credits
Professional Performance Workshop	4	PROGRAM		2																		2	SI423 Business Architecture Analysis and Design, SI420 Experiment Design in IS and HU61 English 5
IS/IT Project Management	4	PROGRAM																			2		SI414 Fundamentals of Business Architecture
Fundamentals of Business Intelligence	3	PROGRAM				3																	SI414 Fundamentals of Business Architecture
Elective	3	ELECTIVE		3																	2		-
▶▶ TERM 9 CRD 18																							
Project Workshop I	5	PROGRAM		3	3	3		2	3	3	2	3	2	2	2		2	2	2	3			SI391 Professional Performance Workshop, and have approved 2 pre-professional internships credits and approval of the Program Director
IT Service Management	4	PROGRAM				3															2		SI409 Business Systems Implementation
Database Administration	3	PROGRAM					2															2	SI400 Database Design
Elective	3	ELECTIVE	3								2												-
Elective	3	ELECTIVE				3																	-
▶▶ TERM 10 CRD 17																							
Information Systems Quality	3	PROGRAM		3																	2		SI409 Business Systems Implementation
Project Workshop II	5	PROGRAM		3	3			3	3	3			3	3	3		3	3	3			3	SI408 Project Workshop I
Elective	3	ELECTIVE						3					3										-
Elective	3	ELECTIVE							3														-
Elective	3	ELECTIVE								3													-

▶▶ COURSES 50 ▶▶ TOTAL CREDITS 200