LEARNING UNITS (organized by Curriculum Area and Sub Area)

Curriculum Presentation Area
  Curriculum Presentation SubArea

Level of knowledge	Course	LU#	LearningUnit Title

A · FUNDAMENTALS OF CIS

A ·1 Literacy in computers and information systems

Level of knowledge	Course	LU#	LearningUnit Title
1	0	1	Systems and IT Concepts
2	0	13.08	Is life cycle: developing with packages
2	0	13.13	Implementing and event driven applications
	0	13.14	IS Development with Prototyping
	0	13.15	IS Technology Evolution
1	0	4	IT and Society
1	1	12	Ethics and the IS Professional
3	1	13	IS Personal Level Systems
1	1	5	Systems and Quality
1	1	6	Information and Quality
1	1	7	IT Hardware and Software
2	2	206	Hardware/Software Inter-organizational System
2	3	16	IS Theory
2	3	22	Systems and Quality, and IS
2	4	63	IT Peripheral Devices
1	4	64	IT Hardware Architectures
3	5	42	Information Measurements/Data/Events
3	8	90	IS Database and IS Implementation
3	8	91	IS Database Application Structuring
3	8	92	IS Database Application Implementation
3	8	93	IS Application Development/Code Generation
2	8	99	IS Requirements/Work-Flow Planning
3	9	103	IS Development Testing
4	9	118	Personal, Life-Long Learning
4	10	110	IS Applications, Production Systems

A ·2 Knowledge work software packages

Level of knowledge	Course	LU#	LearningUnit Title
3	8	95	IS Database Conceptual/Logical Models
3	8	88	IS Data Modeling
2	6	40	Telecom, Installation, Implementation
2	6	41	Telecom, LAN, Installation, Configuration
3	7	73	IS Commercial Implementations
3	7	81	IS Database Applications Development
3	4	71	OS, Installation, Configuration of Multi-User Systems
2	4	69	OS, Installation, Configuration for Multi-Media
2	4	70	OS, Interoperability and Systems Integration
1	4	65	IT Systems Software Components, Interactions
2	4	67	OS Functions
1	4	68	OS Environments and Resources
2	3	19	Personal, Cognitive Process
2	3	20	Personal, Goals and Decisions
2	3	21	Decision Making, Simon Model
1	0	3	Problem Solving, Small IS
1	1	10	Characteristics of an IS Professional
3	0	13.16	Implementing a personal is application
1	0	2	Knowledge Work Software
2	0	13.12	Implementing a simple database design
2	0	13.09	Configure and customize a package

Level of knowledge	Course	LU#	LearningUnit Title
Curriculum Presentation Area			
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1	0	13.01	Work and activity concepts
1	0	13.02	Support: individuals vs groups
2	0	13.05	Organizing personal data resources
2	0	13.06	Database terminology and concepts
2	0	13.07	Accessing/retrieving/storing data

B · IS THEORY AND PRACTICE

B ·3 IS planning

Level of knowledge	Course	LU#	LearningUnit Title
2	0	13.04	Info analysis: finding is/it requirements
1	0	13.03	Info analysis: individual vs group
3	0	14	Problem Solving, with Packages
1	1	11	IS Careers
3	1	8	IT Systems Specification
2	3	18	IS Development and Management
2	3	123	IS Management of IS Function
3	4	62	Telecom, Systems View HW/SW
1	3	30	Personal, Performance Evaluation
2	3	26	IS Planning
2	3	28	IS Development Standards
2	3	29	IS Implementation, Outsourcing
2	6	124	IS Management of Emerging Technologies
2	6	32	Telecom, Devices, Media, Systems
2	6	33	Telecom, Organizational Support By
2	6	34	Telecom, Economics, Design Issues
2	6	35	Telecom, Standards, Standard Organizations
2	6	36	Telecom, Central/Distributed Systems
2	6	37	Telecom, Architectures, Topologies, Protocols
2	6	38	Telecom, Hardware and Software
2	6	39	Telecom, Services, Reliability, Security...
3	7	78	IS Continuous Improvement and IS
3	7	84	Systems and Quality Metrics/Assessment
3	7	72	IS Analysis and Design Tasks
3	7	74	IS Requirements and Specifications
3	7	75	IS Design and Implementation
3	7	76	IS Rapid Prototyping
2	7	77	IS Development Risks/Feasibility
3	8	98	IS Development and Conversion
3	8	96	IS Functional Specifications
2	8	97	IS Conversion Planning
4	10	111	IS Requirements and Database
3	10	121	Personal, Leadership and IS
2	10	122	IS Policies and Standards
3	9	120	IS Management and IS Department Organization
3	9	115	IS Responsibility to Sell Designs to Management

B ·4 IT and organizational systems

Level of knowledge	Course	LU#	LearningUnit Title
4	9	114	Interpersonal, Goals, Mission, Alignment
4	9	112	Personal, Proactivity, Principled Action
4	9	113	Interpersonal, Empathetic Listening
2	9	104	IS Applications, Programming Environment
3	9	100	IS Application with Programming Language
2	9	101	IS Implementation with Objects, Event Driven
2	10	125	IS Implementation and Outsourcing
3	10	126	Personal, Time and Relationship Management

Level of knowledge	Course	LU#	LearningUnit Title
4	8	117	Personal, Presentation
2	8	86	Interpersonal, Synergistic Solutions
3	8	87	Interpersonal, Agreements and Commitment
2	7	85	IS Professional Code of Ethics
2	7	82	Problem Solving, Complexity Metrics
2	7	83	IS Software Quality Metrics
3	7	79	Interpersonal, Consensus Development
3	7	80	Interpersonal, Group Dynamics
2	5	61	Programming: Language Comparison
3	5	59	Problem Solving, File/DB Editors/Reports
3	5	60	Problem Solving, Design, Test, Debug
2	5	56	Problem Solving, IS Applications, Sub-Structures
3	5	58	Problem Solving, with Files and Database
3	5	48	Problem Solving, Top Down Implementation
2	5	49	Problem Solving, Object Implementation
2	5	50	Problem Solving, Modules/Cohesion/Coupling
2	5	51	Verification and Validation, A Systems View
2	5	52	Problem Solving, Environments and Tools
2	3	27	IS Types
2	3	23	Systems, Role of Management, Users, Designers
2	3	24	Systems, Work-Flow, Organizational Systems
2	3	25	Models, Organizational Relationship to IS
2	3	31	IS Society and Ethics
3	3	119	Ethics and Legal Issues
2	3	17	IS as a Strategic Component
2	2	205	Interorganizational Ethical Issues
2	2	208	Individual Privacy Concerns
2	2	201	E-commerce relationship types
2	2	202	Value and Supply chain concepts
2	2	203	Customer issues and solutions
2	1	9	IT and Attaining Objectives
2	2	200	Evolution of IT use
3	0	15	Information Use Strategies
2	0	13.1	Procedural/event driven programming

C· INFORMATION TECHNOLOGY

C ·5   Algorithmic design and data, object and file structures

Level of knowledge	Course	LU#	LearningUnit Title
2	0	13.11	Implementing simple algorithms
2	5	53	ADTs: Data and Files Structures
3	5	54	ADTs: Arrays, Lists, Trees, Records
3	5	47	Problem Solving, Algorithm Development
2	5	43	Data: Characters, Records, Files, Multi-Media
2	5	44	ADTs, Classes, Objects
2	5	45	Problem Solving, Formal Problems and IS
2	5	46	Object Representation of a System
3	5	57	Problem Solving, Data and File Applications
3	5	55	ADTs: Indexed Files, Keys
3	8	127	Quality and Performance Management
2	8	89	ADTs: Database Models and Functions
3	8	94	IS Development and Project Management
3	10	105	IS Development, Project Planning
4	9	116	IS Life Cycles and Projects
4	10	106	IS Development, Project Management
4	10	107	IS Development, Project Management

Curriculum Presentation Area				
Curriculum Presentation SubArea				
Level of knowledge	**Course**	**LU#**	**LearningUnit Title**	
4	10	108	IS Development, Project Management Tools	
2	10	109	IS Development, Project Close Down	

D· SYSTEMS DEVELOPMENT

D ·3   Information systems analysis, design, implementation

2	2	204	E-commerce functonality	
2	2	207	Inter-organizational IS Development Methodologies	