

Learning Units in IS'2002 Course:

This Figure show the distribution of learning units in the IS'2002 courses. the learning units are organized according to the curriculum presentation areas and subareas. The learning unit numbers correspond to the numbers used in Appendix 7 which gives a complete definition of the individual learning units.

COURSE

CURRICULUM PRESENTATION AREA

CURRICULUM SUB-AREA

LU-#

LEVEL

LEARNING UNIT NAME

IS2002.0Personal Productivity with IS Technology (Prerequisite: elementary knowledge of word processing, spreadsheets, Email, and Internet browsing)

A FUNDAMENTALS OF CIS

A.1 Literacy in computers and information systems

0001 1 Systems and IT Concepts

0004 1 IT and Society

A.2 Knowledge work software packages

13.01 1 Work and activity concepts

13.02 1 Support: individuals vs groups

13.05 2 Organizing personal data resources

13.07 2 Accessing/retrieving/storing data

13.09 2 Configure and customize a package

13.16 3 Implementing a personal is application

0002 1 Knowledge Work Software

0003 1 Problem Solving, Small IS

C INFORMATION TECHNOLOGY

C.4 IT and organizational systems

13.1 2 Procedural/event driven programming

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

13.11 2 Implementing simple algorithms

D SYSTEMS DEVELOPMENT

D.1 Literacy in computers and information systems

13.08 2 Is life cycle: developing with packages

13.13 2 Implementing and event driven applications

13.14 IS Development with Prototyping

13.15 IS Technology Evolution

D.2 Knowledge work software packages

13.06 2 Database terminology and concepts

13.12 2 Implementing a simple database design

D.3 IS planning

13.03 1 Info analysis: individual vs group

13.04 2 Info analysis: finding is/it requirements

0014 3 Problem Solving, with Packages

E IS DEPLOYMENT AND MANAGEMENT

E.4 IT and organizational systems

0015 3 Information Use Strategies

IS2002.1 Fundamentals of Information Systems

A FUNDAMENTALS OF CIS

A.1	Literacy in computers and information systems		
	0012	1	Ethics and the IS Professional
	0013	3	IS Personal Level Systems

B IS THEORY AND PRACTICE

B.1	Literacy in computers and information systems		
	0005	1	Systems and Quality
	0006	1	Information and Quality
B.2	Knowledge work software packages		
	0010	1	Characteristics of an IS Professional
B.4	IT and organizational systems		
	0009	2	IT and Attaining Objectives

C INFORMATION TECHNOLOGY

C.1	Literacy in computers and information systems		
	0007	1	IT Hardware and Software

D SYSTEMS DEVELOPMENT

D.3	IS planning		
	0008	3	IT Systems Specification

E IS DEPLOYMENT AND MANAGEMENT

E.3	IS planning		
	0011	1	IS Careers

IS2002.2 Electronic Business Strategy, Architecture and Design

B IS THEORY AND PRACTICE

B.4	IT and organizational systems		
	0200	2	lu for course 2

IS2002.3 Information Systems Theory and Practice

B IS THEORY AND PRACTICE

B.1	Literacy in computers and information systems		
	0016	2	IS Theory
	0022	2	Systems and Quality, and IS
B.2	Knowledge work software packages		
	0019	2	Personal, Cognitive Process
	0020	2	Personal, Goals and Decisions
	0021	2	Decision Making, Simon Model
B.3	IS planning		
	0123	2	IS Management of IS Function
	0018	2	IS Development and Management
	0026	2	IS Planning
B.4	IT and organizational systems		
	0119	3	Ethics and Legal Issues
	0017	2	IS as a Strategic Component
	0023	2	Systems, Role of Management, Users, Designers
	0024	2	Systems, Work-Flow, Organizational Systems
	0025	2	Models, Organizational Relationship to IS
	0027	2	IS Types
	0031	2	IS Society and Ethics

D SYSTEMS DEVELOPMENT

D.3	IS planning		
	0028	2	IS Development Standards

E IS DEPLOYMENT AND MANAGEMENT

E.3	IS planning		
	0029	2	IS Implementation, Outsourcing
	0030	1	Personal, Performance Evaluation

IS2002.4 Information Technology Hardware and System Software

C INFORMATION TECHNOLOGY

C.1	Literacy in computers and information systems		
	0063	2	IT Peripheral Devices
	0064	1	IT Hardware Architectures
C.2	Knowledge work software packages		
	0065	1	IT Systems Software Components, Interactions
	0067	2	OS Functions
	0068	1	OS Environments and Resources
C.3	IS planning		
	0062	3	Telecom, Systems View HW/SW

E IS DEPLOYMENT AND MANAGEMENT

E.2	Knowledge work software packages		
	0069	2	OS, Installation, Configuration for Multi-Media
	0070	2	OS, Interoperability and Systems Integration
	0071	3	OS, Installation, Configuration of Multi-User Systems

IS2002.5 Programming, Data, File and Object Structures

B IS THEORY AND PRACTICE

B.1 Literacy in computers and information systems

0042	3	Information Measurements/Data/Events
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C INFORMATION TECHNOLOGY

C.4 IT and organizational systems

0048	3	Problem Solving, Top Down Implementation
0049	2	Problem Solving, Object Implementation
0050	2	Problem Solving, Modules/Cohesion/Coupling
0051	2	Verification and Validation, A Systems View
0052	2	Problem Solving, Environments and Tools
0056	2	Problem Solving, IS Applications, Sub-Structures
0058	3	Problem Solving, with Files and Database
0059	3	Problem Solving, File/DB Editors/Reports
0060	3	Problem Solving, Design, Test, Debug
0061	2	Programming: Language Comparison

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

0043	2	Data: Characters, Records, Files, Multi-Media
0044	2	ADTs, Classes, Objects
0045	2	Problem Solving, Formal Problems and IS
0046	2	Object Representation of a System
0047	3	Problem Solving, Algorithm Development
0053	2	ADTs: Data and Files Structures
0054	3	ADTs: Arrays, Lists, Trees, Records
0055	3	ADTs: Indexed Files, Keys
0057	3	Problem Solving, Data and File Applications

IS2002.6 Networks and Telecommunication

C INFORMATION TECHNOLOGY

C.3 IS planning

0124	2	IS Management of Emerging Technologies
0032	2	Telecom, Devices, Media, Systems
0033	2	Telecom, Organizational Support By
0034	2	Telecom, Economics, Design Issues
0035	2	Telecom, Standards, Standard Organizations
0036	2	Telecom, Central/Distributed Systems
0037	2	Telecom, Architectures, Topologies, Protocols
0038	2	Telecom, Hardware and Software
0039	2	Telecom, Services, Reliability, Security...

E IS DEPLOYMENT AND MANAGEMENT

E.2 Knowledge work software packages

0040	2	Telecom, Installation, Implementation
0041	2	Telecom, LAN, Installation, Configuration

IS2002.7 Analysis and Logical Design

B IS THEORY AND PRACTICE

B.4 IT and organizational systems

0085	2	IS Professional Code of Ethics
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C INFORMATION TECHNOLOGY

C.4 IT and organizational systems

0082	2	Problem Solving, Complexity Metrics
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0083	2	IS Software Quality Metrics
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D SYSTEMS DEVELOPMENT

D.2 Knowledge work software packages

0081	3	IS Database Applications Development
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D.3 IS planning

0072	3	IS Analysis and Design Tasks
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0074	3	IS Requirements and Specifications
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0075	3	IS Design and Implementation
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0076	3	IS Rapid Prototyping
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0077	2	IS Development Risks/Feasibility
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0078	3	IS Continuous Improvement and IS
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0084	3	Systems and Quality Metrics/Assessment
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D.4 IT and organizational systems

0079	3	Interpersonal, Consensus Development
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0080	3	Interpersonal, Group Dynamics
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E IS DEPLOYMENT AND MANAGEMENT

E.2 Knowledge work software packages

0073	3	IS Commercial Implementations
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IS2002.8 Physical Design and Implementation with DBMS

B IS THEORY AND PRACTICE

B.1 Literacy in computers and information systems

0099	2	IS Requirements/Work-Flow Planning
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C INFORMATION TECHNOLOGY

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

0089	2	ADTs: Database Models and Functions
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D SYSTEMS DEVELOPMENT

D.1 Literacy in computers and information systems

0090	3	IS Database and IS Implementation
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0091	3	IS Database Application Structuring
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0092	3	IS Database Application Implementation
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0093	3	IS Application Development/Code Generation
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D.2 Knowledge work software packages

0088	3	IS Data Modeling
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0095	3	IS Database Conceptual/Logical Models
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D.3 IS planning

0096	3	IS Functional Specifications
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0097	2	IS Conversion Planning
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0098	3	IS Development and Conversion
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D.4 IT and organizational systems

0117	4	Personal, Presentation
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0086	2	Interpersonal, Synergistic Solutions
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0087	3	Interpersonal, Agreements and Commitment
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D.5 Algorithmic design and data, object and file structures

0127	3	Quality and Performance Management
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0094	3	IS Development and Project Management
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IS2002.9Physical Design and Implementation in Emerging Environments

C INFORMATION TECHNOLOGY

C.4 IT and organizational systems

0100	3	IS Application with Programming Language
0101	2	IS Implementation with Objects, Event Driven
0104	2	IS Applications, Programming Environment

D SYSTEMS DEVELOPMENT

D.1 Literacy in computers and information systems

0103	3	IS Development Testing
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D.4 IT and organizational systems

0112	4	Personal, Proactivity, Principled Action
0113	4	Interpersonal, Empathetic Listening
0114	4	Interpersonal, Goals, Mission, Alignment

D.5 Algorithmic design and data, object and file structures

0116	4	IS Life Cycles and Projects
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E IS DEPLOYMENT AND MANAGEMENT

E.1 Literacy in computers and information systems

0118	4	Personal, Life-Long Learning
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E.3 IS planning

0115	3	IS Responsibility to Sell Designs to Management
0120	3	IS Management and IS Department Organization

IS2002.10Project Management and Practice

D SYSTEMS DEVELOPMENT

D.1 Literacy in computers and information systems

0110	4	IS Applications, Production Systems
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D.3 IS planning

0111	4	IS Requirements and Database
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D.4 IT and organizational systems

0126	3	Personal, Time and Relationship Management
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D.5 Algorithmic design and data, object and file structures

0105	3	IS Development, Project Planning
0106	4	IS Development, Project Management
0107	4	IS Development, Project Management
0108	4	IS Development, Project Management Tools
0109	2	IS Development, Project Close Down

E IS DEPLOYMENT AND MANAGEMENT

E.3 IS planning

0121	3	Personal, Leadership and IS
0122	2	IS Policies and Standards

E.4 IT and organizational systems

0125	2	IS Implementation and Outsourcing
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