



UNIVERSITY OF PRIZREN
FACULTY OF COMPUTER SCIENCE

PROGRAM: Software Design

SYLLABUS							
<i>Level of studies</i>	BSc	<i>Program</i>	SD	<i>Academic year</i>	2018/2019		
<i>SUBJECT</i>	Design Information Systems						
<i>Year</i>	2019	<i>Status Of the subject</i>	E	<i>Code</i>	//	<i>ECTS credits</i>	6
<i>Semester</i>	IV						
<i>Teaching weeks</i>	15		<i>Hours teaching</i>	60	<i>Lectures</i>	<i>Exercises</i>	
					15	15	
<i>Teaching Methodology</i>	Lectures, exercises, seminar papers, consultations, tests, case studies, assignments, etc.						
<i>Consultation</i>	One hour before and one hour after lectures						
<i>The teacher</i>	Prof.Ass. Dhuratë Hyseni		<i>E-mail:</i>	dhurate.hyseni@gmail.com			
			<i>Tel.:</i>	044202109			
<i>Assistant</i>	Prof.Ass. Dhuratë Hyseni		<i>E-mail:</i>	dhurate.hyseni@gmail.com			
			<i>Tel.:</i>	044202109			

Study goal and table of content	Benefits of student
<p>This course contains materials and guidelines for project management in accordance with contemporary methodologies and techniques in this field. The whole concept applied is oriented to the creation of knowledge and skills in the realization of Project, technical documentation from the design aspect, as well as the transition from documenting the requirements to the design of the software system. The students should visualize their requirements and formalize them using the UML.</p> <p>The requirements for completing the purpose of this course are:</p> <ul style="list-style-type: none"> • Preliminary skills in web design • Active student during lectures and exercises 	<p>Upon successful completion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Define project requirements 2. Presentation of the module processes through DFD. 3. Description of Use Case. 4. Drawing Class Diagram - Class Diagram 5. Develop Sequence Diagrams - Sequence Diagrams. 6. Database designing in SQL 7. Design of software application in ASP.Net

Methodology for the implementation of educational topics:		
In class hours, lecture materials will be discussed and discussed about the issues raised. In exercises, different case scenarios will be processed from the life cycle of the projects. Each student will make a presentation of achieving an example, a real project in the field of IT.		
Ways of assessing of the student (in %) :	Evaluation in%	Final grade
• Regular attendance and participation	10	(91-100) - 10 (81-90) - 9 (71-80) - 8 (61-70) - 7 (51-60) - 6 (0-50) - 5
• Tasks and projects	30	
• Final Exam	60	
Total	100.00 %	
Obligations of student:		
Lectures		Exercises

Activities		Hour/ weeks	Days/Weeks	
Lectures		2	15	30
Laboratory exercises		2	15	30
Contacts with teachers / consultations		1	10	10
Practical work		1	10	10
Projects, presentations, etc.		1	10	10
Own study time		1	10	10
Preparation for final exam		5	5	25
Time spent in the assessment (tests, final exam, etc.)		1	15	15
Notice: 1 ECTS credits= 25 hour commitment, e.g. if the subject has 6 ECTS credits student must have 150 hours during the semester commitment.			Total load:	140
Week	Lectures	Hour	Exercises	
	Topic		Topic	
1	Introduction to Information Systems	2	Introduction to the tools that will be used for the exercises in this course	2
2	Methodologies of Information Systems - Life Cycle (Life cycle).	2	-Project proposal for exercises, -Grouping students for individual project, -explanations about group work	2
3	Defining and validating requirements	2	For group project: • Defining methods for data collection • Validation requirements	2
4	Collaboration models and UML for visualization Information Systems	2	Tools that provide support for UML, and their practice for the group project	2
5	Definition of Use Case Diagrams for information Systems	2	Creating Use Case diagrams for the group project and Create specification for Use Case Diagrams	2
6	Definition of Sequence Diagram for information Systems	2	Creating Sequence diagrams for the group project	2
7	Definition of Data Flow Diagram for information Systems	2	First exam	2
8	Definition of Class Diagram for information System	2	Creating Class Diagram for the group project	2
9&10	Database Base Design ER-Diagram Database normalization Create database in SQL server Creating different objects in SQL Server	2	For the group project is expected: -ER-Diagram, -Database normalization, -Create database in SQL server, -Create table, procedure, function etc in SQL Server	2
11&12	Designing the Information System Interface, using: ASP.Net, Css, C#, Javascript etc	2	-Creating project in asp.net, -web forms for insert, modification, search and deletion data,	2

			-Validation data from client side etc	
13	Testing information systems	2	- Types of SI testing -Tools that we use for testing the SI etc	2
14	Security of information systems	2	The security level of Information Systems and preventing attacks that may arise	2
15	Presentation of group projects	2	Second exam	2

LITERATURE:

- Systems Analysis and Design, Howard Gould
- *Management information Systems* by Kenneth Laudon 12th edition
- *The UML Unified Modeling Language Reference Manual*, James Rumbaugh

On-line resurset:

- Enterprise Architect - UML CASE Tool
- ER-Win, database management tool

NOTICE:

- In general, lecture presentations will be made through the PowerPoint system, table, use of materials, computer programs and the internet.
- As well, by the professor and the assistant will be provided and other additional materials (scientific papers, publications, national bulletins and discoveries and recent research).

- During each session, a conversation approach and co-participation with students will be organized.

Notice for the student:

- Students are required to be regular in the lectures and exercises section.
- The student's contribution in the form of conversation and co-participation with the students will be evaluated.