



UNIVERSITY OF PRIZREN
FACULTY OF COMPUTER SCIENCE

PROGRAM: Software Design

Curriculum - – SYLLABUS							
<i>Level of studies</i>	BACHELOR	<i>Program</i>	SD	<i>Academic year</i>	2017/2018		
SUBJECT	Object oriented programming						
<i>Year</i>	II	<i>Status Of the subject</i>	Obligatory	<i>Code</i>		<i>ECTS credits</i>	6
<i>Semester</i>	III						
<i>Teaching weeks</i>	15		<i>Hours teaching</i>	45	<i>Lectures</i>		<i>Exercises</i>
		3			2		
<i>Teaching Methodology</i>	Lectures, exercises, seminar papers, consultations, tests.						
<i>Consultation</i>	One hour / week						
<i>The teacher</i>				<i>E-mail:</i>			
				<i>Tel.:</i>			
<i>Assistant</i>				<i>E-mail:</i>			
				<i>Tel.:</i>			

Study goal and table of content	Benefits of student
<p>The objective of the course is to give the students a basic concepts of Classes: object, attributes, methods, representation of Abstract Data Types, the control of scope of attributes (member data) and messages (member functions) within a class, constructors and destructors, inheritance, dynamic binding, virtual functions and polymorphism, parameter based types (templates).</p>	<p>On successful completion of the module the student will be able to: Assimilate and use basic object-oriented programming concepts Use an object-oriented programming design method Reuse system components using object-oriented programming principles</p>

Methodology for the implementation of educational topics:		
<p>This is a combined course with lectures, discussions, conversations, practical work, exercises, workshops, seminars, task in which subjects are presented by professor of course and assistant in the laboratory.</p>		
Conditions for realization of educational topics:		
<ul style="list-style-type: none"> • Adequate literature, table, computer, projector and other necessary IT tools for learning and exercises. 		
Ways of assessing of the student (in %) :	Evaluation in%	Final grade
A seminar paper	10.00 %	51-60% - grade 6 61-70 7 71-80 8 81-90 9 91-100 10
Colloquia	30.00 %	
Final test	60.00 %	
Final Exam included three evaluation criteria;	10 + 30 + 60	
Total	100.00 %	
Obligations of student:		

Lectures	Exercises
The student must be regular lectures and exercises, to use all possibilities for learning the knowledge required to use literature and wider, to be active and keep regulations on higher education in ethics and courtesy for cooperation.	The student must be active and reflective exercises and knowledge readiness initiatives, ideas and demonstration of knowledge gained in lectures.

Student workload for Subject

Activities	Hour/ weeks	Days/Weeks	Total
Lectures	2	15	30
Laboratory exercises	2	15	30
Contacts with teachers / consultations	0.5	15	7.5
Practical work	1	2	2
Projects, presentations, etc.	1	2	2
Own study time	3	10	30
Preparation for final exam	3	5	15
Time spent in the assessment (tests, final exam, etc.)	2	3	6

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: 120

Week	Lectures	Hour	Exercises	Hour
	Topic		Topic	
1-2	<ul style="list-style-type: none"> Retro of Introduction to programming Error Management and debug 	4	<ul style="list-style-type: none"> Retro of Introduction to programming Error Management and debug 	4
3	<ul style="list-style-type: none"> exception handling 	2	<ul style="list-style-type: none"> exception handling 	2
4	<ul style="list-style-type: none"> Java IO system Streams - files 	4	<ul style="list-style-type: none"> Java IO system Streams - files 	2
5-7	<ul style="list-style-type: none"> Classes, objects dhe methods 	6	<ul style="list-style-type: none"> Classes, objects dhe methods 	6
8	<ul style="list-style-type: none"> The first test Consulting the results of the test 	4	<ul style="list-style-type: none"> The first test Consulting the results of the test 	4
9-10	<ul style="list-style-type: none"> Inheritance dhe Composition 	4	<ul style="list-style-type: none"> Inheritance dhe Composition 	4
11-12	<ul style="list-style-type: none"> Intefaces, abstract and final classes 	4	<ul style="list-style-type: none"> Intefaces, abstract and final classes 	4
13-14	<ul style="list-style-type: none"> Threads and multithreads 	4	<ul style="list-style-type: none"> Threads and multithreads 	4
15	<ul style="list-style-type: none"> The second test Consulting the results of the test 	4	<ul style="list-style-type: none"> The second test Consulting the results of the test 	4

LITERATURE:**Basic Literatur :**

- D. Parsons, "Object-Oriented Programming", Letts Educational, ISBN 0826454283
- Java how to program 9th Edition – Dietel and Dietel
- Thinking in Java 5th edition (falas) – Bruce Eckel
- Beginning Java 2, JDK 5 Edition - Ivor Horton's

A good web site with books and material for Java, can be found:

http://www.freeprogrammingebooks.net/free_ebook_java_free_ebooks_java/index.php

NOTICE:

- In general presentations of lectures will be made through Power Point system, table, use of materials and computer software and the Internet.
- Also, the professor will be provided additional materials (papers, publications, national bulletins and sound research findings and final).
- In the absence of the possibility that practical work is organized every week, in cooperation with the management of the University, this activity will be organized on certain days, organizations, companies, farms, processing manufacturing unit.
- During each session, will be organized conversations with students.

Notice for the student:

- The students are required to be regular in the lectures and exercises.
- The contribution of the students in the form of conversation with the students will be evaluated.
- Arrival time at lectures and exercises is mandatory.