МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ КЫРГЫЗСКОЙ РЕСПУБЛИКИ

International Ataturk Alatoo University

Международный Университет «Ататюрк-Алатоо»

Confirmed by / Утверх Head of Department				
Last Name, First Nar	me / Ф. И.	Sign	ature (подпись)	_
	201			
S	SYLLAB	US / РАБОЧА	Я ПРОГРАМ	ИМА
Course Title / Назвал	ние предмета	Programming Language	ges I	
Department / Кафедр	pa	Computer Engineering	2013 - 2014 academ	ic year
Faculty / Факультет		New Technologies		
Semester Семестр	Cour			ctures (weeks) ции (недель) <u>60(15)</u>
Examinations	s Assi	gnment(s)	Research Projects	Practical Work
Экзамены	2 Инди	видуальная Работа <u>9</u>	Курсовые Работы / Пр	актические Занятия12
The Syllabus is based Рабочая программа соста	•	cational standard ии стандарта образования		
Bondarev Alek	sey Anatolievi	ch		
Author Составитель		st Name, First Name, Мамилия, Имя, Отчество)	Middle Name)	
Email / Элек. Почта	aleksey	y.bondarev@iaau.edu.kg		
	201		(signature) / подпис	ь
				O at the Department Session ОТРЕННО на Заседании кафедры
		Order / Прик	:a3 №"	201 year

Syllabus (Программа)

COURSE TITLE / Название предмета:

Programming Languages I

1. COURSE DESCRIPTION / Описание предмета:

The Core Java technologies and application programming interfaces (APIs) are the foundation of the Java Platform, Standard Edition (Java SE). They are used in all classes of Java programming, from desktop applications to J2EE applications.

2. AIMS & OBJECTIVES / Цели и задачи:

This course offers an introduction to the Java programming language for those students who have had little or no background in programming. Toward this goal students will learn how to:

- Write programs using the Java language. Basic topics considered are programs and program structure in general, and Java syntax, data types, flow of control, classes, methods, objects, arrays, exception handling, recursion, and graphical user interfaces (GUIs).
- Understand fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries etc.
- 3. BY THE END OF THIS COURSE STUDENT WILL BE ABLE TO (К КОНЦУ этого курса студенты смогут):
 - ✓ *Comprehend* the art of programming and, in particular, the structure and meaning of basic Java programs
 - ✓ *Design* and build programs using problem-solving techniques such as top-down design
 - ✓ *Modify*, compile, debug, and execute Java programs
 - ✓ *Understand* how to create graphical user interfaces

4. GRADING / Оценка:

1 Quiz	15% of Midterm	
1 Project	15% of Midterm	
Homework	10% of Midterm	
1 Quiz	15% of Final	
1 Project	15% of Final	
Homework	10% of Final	
Midterm Exam	40% of Final Grade	
Final Exam	60% of Final Grade	

5. LITERATURE / литература:

Course book: Java how to program 9th edition (Paul Deitel, Harvey Deitel)

Additional Books: Thinking in Java 4th edition (Bruce Eckel)

Internet Resources: http://www.javatutorialhub.com/first-java-program.html

Note: Literature from our library should be also included

6. ATTENDANCE / посещаемость:

(Policy description)

The attendance policy of this class will follow the policy of the University.

7. CONTENT & COURSE CALENDAR / СОДЕРЖАНИЕ И КАЛЕНДАРЬ КУРСА:

The calendar below provides information on the course's lecture (L), recitation (R) sessions and quizzes.

Week		Course calendar.					
#	SES#	TOPICS	Reading(Chapter)	KEY DATES			
	Introduction and Review						
1	L1	Syllabus, Introduction to Java and Java Applications	Reading 1 -2				
	R1	Java Environment					
		Object-Oriented Programming					
2	L2	Introduction to Classes, Objects, Methods and Strings	Donding 2	HW 1 out			
2	R2	Data Types	Reading 3				
3	L3	Classes and Objects: A Deeper Look	Reading 8	HW 1 due			
	R3	Classes structures		HW 2 out			
4	L4	Encapsulation and Overriding	Reading 8.3	HW 2 due			
	R4	Interfaces, fields accessibility		HW 3 out			
5	L5	Inheritance and Polymorphism	Reading 9-10	HW 3 due			
	R5	Sub Classes and Super Classes		HW 4 out			
6	L6	Exception Handling	Reading 11	HW 4 due			
	R6	Exceptions and risk systems					
7	L7	Quiz - 1 (duration 1 hour, 5-6 Questions)					

	R4	Solving Quiz Questions			
8 -	L8	Multithreading	Reading 26	HW 5 out	
	R8	Threads, runnables	Reading 20	HW 5 due	
		MIDTERM			
Files a	nd Strea	ıms, Graphical User Interface			
9	L9 R5	Files and Streams Types of Streams	Reading 17	HW 6 out	
10	L10	Object Serialization	Reading 17	HW 6 due	
	R10	Examples		HW 7 out	
11	L11	GUI Components	Reading 14	HW 7 due	
	R6	Buttons, TextFields, Selects etc.			
12	L12	Quiz - 2 (duration 1.2 hour, 5-7 Questions)			
R12		Quiz 2 Questions and Computability Wrap-up			
13	L13	Listeners and Events	Reading 25	HW 8 out	
	R13	Events Handling			
14	L14	Layout Managers	Reading 14, 25	Hw 8 due	
	R14	Examples		HW 9 out	
15	L15	Overall Review		HW 9 due	
	R15	Summary			
FINAL EXAM					