الجامعة : جامعة بغداد الكلية : تربية بنات القسم الحاسبات

المرحلة: الثانية

اسم المحاضر الثلاثي: عفاف بديع جميل

اللقب العلمي: مدرس

الموهل العلمي: دكتوراه

مكان العمل : جامعة بغداد- تربية بنات- قسم الحاسبات

جمهورية العراق وزارة التعليم العالي والبحث العلمي جهاز الاشراف والتقويم العلمي

جدول الدروس الاسبوعي

				عفاف بديع جميل	الاسم
				afafbad@yahoo.com	البريد
					الالكتر و ني
				ذكاء اصطناعي	البريد الالكتروني اسم المادة مقرر الفصل
				"	مقرر الفصل
part of Compute used in knowledg	r Science and ge representat	l it applies the prin ion, the algorithms	ciples of CS needed to a	hine translation, AI is a such as data structures pply that knowledge and their implementation.	اهداف المادة
(Resolution), Sen Programming, Li Failure, Simple E	nantic Networ ists, arithmeti	ks, Production Rule c Expressions, Back	es, Frames a stracking an	1 /	التفاصيل الاساسية
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the A*), Problem Based Systems, I Interfaces (why, System Shell. "Artificial Intelli George F. Luger,	Reduction, E Forward and How, What If gence Structu William A. S ming for AI",	t Search, Breadth-fi Expert Systems: Fur Backward Chaining C), Expert systems Sl Tres and Strategies f Etubblefield, 3 rd ED.	nction and s g, Handling hells, An Ex- for Complex g, 1997.	tructure of Knowledge- Uncertainty, User ample of a Commercial	
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the A*), Problem Based Systems, I Interfaces (why, I System Shell. "Artificial Intelli George F. Luger, "Prolog Program" Lectures from In	Reduction, E Forward and How, What If gence Structu William A. S ming for AI", ternet	t Search, Breadth-fi Expert Systems: Fur Backward Chaining), Expert systems Sl Tres and Strategies for Stubblefield, 3 rd ED., Ivan Bratko, 3 rd EI	nction and sign Handling hells, An Extended for Complex 1997.	tructure of Knowledge- Uncertainty, User ample of a Commercial Problem Solving",	الكتب المنهجية
the A*), Problem Based Systems, I Interfaces (why, System Shell. "Artificial Intelli George F. Luger,"Prolog Programs "Lectures from In	Reduction, E Forward and How, What If gence Structu William A. S ming for AI", ternet	t Search, Breadth-fi Expert Systems: Fur Backward Chaining), Expert systems Sl Tres and Strategies f Stubblefield, 3 rd ED., Ivan Bratko, 3 rd EI	nction and s g, Handling hells, An Ex or Complex , 1997. D., 2001	tructure of Knowledge-Uncertainty, User ample of a Commercial Problem Solving",	الكتب المنهجية المصادر الخارجية تقديرات

الجامعة : جامعة بغداد الكلية : تربية بنات

اسم القسم: الحاسبات

المرحلة: الثانية

اسم المحاضر الثلاثي: عفاف بديع جميل

اللقب العلمي: مدرس

المؤهل العلمي: دكتوراه مكان العمل: جامعة بغداد - تربية بنات - قسم

الحاسبات



جمهورية العراق وزارة التعليم العالي والبحث العلمي جهاز الاشراف والتقويم العلمي

جدول الدروس

الاسبوعي

الملاحظات	المادة العملية	المادة النظرية	التاريخ	الاسبوع
	Prolog programming Language	AI Introduction, Definition, scientific Goals of AI, Intelligent Agent.		,
	Write a Program in Prolog Language	AI Applications, Programming, Generic Techniques Development,		۲
	Family Tree	Logic, Syntax and Semantics, Predicates, Connectives, Constants,		٣
	Family Tree	Functions, Variables and Quantifiers.		٤
	Family Tree	Translating From English to First Order Logic (FOL).		٥
	Family Tree	Exam 1		٦
	Solving Problems in Prolog	Translating From FOL to English, Logic Representation: Horn Clauses, Atomic Sentence, Literal, Clause.		Y
	Solving Problems in Prolog	Production Rule representations.		٨
	Solving Problems in Prolog	Knowledge Representation in Natural Language.		٩
	Solving Problems in Prolog	Equivalences and Rewrite Rules: Commutativity, Associativity		١.
	Solving Problems in Prolog	Negation, De Morgan's Laws, Contraposition and Other equivalences,		11
	Solving Problems in Prolog	Common Identities.		١٢
_		Exam 2		1 £
	Solving Problems in Prolog	Unary Predicate: Converting Unary Predicates to Binary		10

Solving Problems	Conjunctive Normal	١٦
in Prolog	Form (CNF).	
	عطلة نصف السنة	
Solving Problems	Conceptual Graph:	١٧
in Prolog	Propositional Nodes,	
	Negation Conceptual	
	Graph, Universally	
	Quantifier	
	Representation.	
Solving Problems	Conversion of Conceptual	١٨
in Prolog	Graph into FOL (WFF).	
Solving Problems	Conversion of Conceptual	١٩
in Prolog	Graph into FOL (WFF).	
Solving Problems	Generalization and	۲.
in Prolog	Specification of	
	Conceptual Graph.	
Solving Problems	Generalization and	۲۱
in Prolog	Specification of	
	Conceptual Graph.	
Solving Problems	Semantic Networks,	7.7
in Prolog		
Solving Problems	Exam 1	77
in Prolog		
Solving Problems	Frames, Search	Y £
in Prolog	Techniques: Depth First	
	Search	
Solving Problems	Breadth First Search.	70
in Prolog		
Solving Problems	Heuristic Search: Hill	77
in Prolog	Climbing, Best First	
	Search, A* Algorithm.	
Solving Problems	Expert system (ES):	**
in Prolog	Introduction,	
	Architecture, ES's	
	Applications, Machine	
	Learning.	
Solving Problems	Control Strategy:	۲۸
in Prolog	Backward and Forward.	
Review	Review	79
Exam	Exam2	٣.
	Solving Problem	٣١
	Solving Problem	77

توقيع الاستاذ: توقيع العميد:



University: Baghdad University College: Education for Women Department: Computer Science

Stage: second Stage

Lecturer name: Afaf Badie Academic Status: Lecturer Qualification: Ph. D.

Qualification: Ph. D Place of work:Baghdad University/ Education for

Women/CS Dept.

Course Weekly Outline

Course Instructor	JAVA Programming Language					
E_mail	afafbad@yahoo.com					
Title	AI	AI				
Course Coordinator	Afaf Badie J	amil				
Course Objective	translation, a principles of representation	o automate of AI is a part of CS such as da on, the algorithuages and proion.	Computer Sc nta structures hms needed to	ience and it a used in know apply that k	pplies the vledge mowledge	
Course Description	Knowledge Representation, Proposition and Predicate Logic and Theorem Proving (Resolution), Semantic Networks, Production Rules, Frames and Scripts, Prolog Programming, Lists, arithmetic Expressions, Backtracking and cuts, Negation as Failure, Simple Examples for Applications, Space search and Problem Reduction: State Space search (depth-First Search, Breadth-first search, Directed Searches and the A*), Problem Reduction, Expert Systems: Function and structure of Knowledge-Based Systems, Forward and Backward Chaining, Handling Uncertainty, User Interfaces (why, How, What If), Expert systems Shells, An Example of a Commercial System					
Textbook	Shell. Artificial Intelligence Structures and Strategies for Complex Problem Solving, George F. Luger, 3 rd ED., 1997. Prolog Programming for AI, Ivan Bratko, 3 rd ED., 2001					
References	Lectures fr	om Internet				
Course Assessment	Term Tests As (20%)	Laboratory As (5%)	Quizzes As (5%)	Project 	Final Exam As (50%)	
General Notes						



University:Baghdad University College:Education for Women Department: Computer Science Stage: Second Stage Lecturer name:Afaf Badie Academic Status:Lecturer Qualification:Ph. D. Place of work:Baghdad University/Education for Women/CS Dept.

Course weekly Outline

week	Date	Topics Covered	Lab. Experiment	Notes
			Assignments	
1		AI Introduction, Definition,	Prolog programming	
		scientific Goals of AI,	Language	
		Intelligent Agent.	***	
2		AI Applications,	Write a Program in	
		Programming, Generic	Prolog Language	
2		Techniques Development,	Family Trees	
3		Logic, Syntax and Semantics, Predicates, Connectives,	Family Tree	
		Constants,		
4		Functions, Variables and	Family Tree	
4		Quantifiers.	ranny rice	
5		Translating From English to	Family Tree	
		First Order Logic (FOL).	,	
6		Exam 1	Family Tree	
7		Translating From FOL to	Solving Problems in	
		English, Logic	Prolog	
		Representation: Horn		
		Clauses, Atomic Sentence,		
		Literal, Clause.		
8		Production Rule	Solving Problems in	
		representations.	Prolog	
9		Knowledge Representation	Solving Problems in	
		in Natural Language.	Prolog	
10		Equivalences and Rewrite	Solving Problems in	
		Rules: Commutativity,	Prolog	
11		Associativity	Calvina Duahlama in	
11		Negation, De Morgan's	Solving Problems in Prolog	
		Laws, Contraposition and	Trolog	
12		Other equivalences, Common Identities.	Solving Problems in	
12		Common fucitities.	Prolog	
13		Exam 1	22029	
14		Unary Predicate: Converting	Solving Problems in	
		Unary Predicates to Binary	Prolog	
		Predicates, Skolemization,		
		Unification.		

	Half-year Break		
17	Conceptual Graph: Propositional Nodes, Negation Conceptual Graph, Universally Quantifier Representation.	Solving Problems in Prolog	
18	Conversion of Conceptual Graph into FOL (WFF).	Solving Problems in Prolog	
19	Conversion of Conceptual Graph into FOL (WFF).	Solving Problems in Prolog	
20	Generalization and Specification of Conceptual Graph.	Solving Problems in Prolog	
21	Generalization and Specification of Conceptual Graph.	Solving Problems in Prolog	
22	Semantic Networks,	Solving Problems in Prolog	
23	Exam 1	Solving Problems in Prolog	
24	Frames, Search Techniques: Depth First Search	Solving Problems in Prolog	
25	Breadth First Search.	Solving Problems in Prolog	
26	Heuristic Search: Hill Climbing, Best First Search, A* Algorithm.	Solving Problems in Prolog	
27	Expert system (ES): Introduction, Architecture, ES's Applications, Machine Learning.	Solving Problems in Prolog	
28	Control Strategy: Backward and Forward.	Solving Problems in Prolog	
29	Review	Review	
30	Exam2	Exam	
31	Solving Problem		
32	Solving Problem		

Instructor Signature:

Dean Signature:

الجامعة : جامعة بغداد الكلية : تربية بنات القسم الحاسبات

المرحلة: الثانية

اسم المحاضر الثلاثي: عفاف بديع جميل

اللقب العلمي : مدرس

المؤهل العلمي: دكتوراه

مكان العمل : جامعة بغداد- تربية بنات- قسم الحاسبات



جمهورية العراق وزارة التعليم العالي والبحث العلمي جهاز الاشراف والتقويم العلمي

جدول الدروس الاسبوعي

	<u> </u>
عفاف بديع جميل	الاسم
afafbad@yahoo.com	البريد
	الالكتروني
لغة البرمجة جافا	اسم المادة
	مقرر الفصل
حل المسائل باستخدام لغة البرمجة جافا عن طريق بناء constructers واستعمال	اهداف
classes, objects, methods	المادة
Introduction to Java, History of Java, The Java Programming	التفاصيل
Language, Running Programs in Java, The Java Platform, Java	التفاصيل الاساسية
Program Execution, Types of Java Programs, Writing Simple	
Application, Writing Simple Applet, Data Types, Final	للمادة
Variables, Binary Arithmetic Operators, Unary Arithmetic	
Operators, Relational and Conditional Operators, Shift and	
Logical Operators, Shortcut Assignment Operators, The if/else	
Statements, The switch Statement, The while and do-while	
Statements , The for Statement, The break Statement, The	
continue Statement, Declaring Classes, Member Variables and	
Methods, Class Constructors, Creating Objects, Declaring a	
Variable to refer to an Object, Instantiating a Class, Initializing	
an Object, Using Objects, Referencing an Object's Variable,	
Calling an Object's Methods, Cleaning Up Unused Objects, The	
Garbage Collector, Finalization, Using Methods, Static Methods,	
Argument Promotion and Casting, Scope of Declarations,	
Method Overloading, Declaration and Creation, Using Arrays,	
The Enhanced for Statement, Passing Arrays to Methods,	
Multidimensional Arrays, Variable-Length Argument List, this	
Reference, Composition, Enumeration, Superclass and Subclass,	
Constructors and Finalizers in Subclasses, Three-Level	

ith Subcla	ass Variables, A	•	,	
				الكتب
				المنهجية
n Internet	t			المصادر
المشروع	الامتحانات الدومية	المختد	الفصاء الدرايي الامل والثاني	الخارجية
-	مثلاًه%	مثلاه%	مثلا ، ٤%	تقدير ات الفصل
				معلومات اضافية
	ith Subcla program P. J. Dei	ith Subclass Variables, A program 6 th ED, P. J. Deitel, 2002 n Internet	ith Subclass Variables, Abstract of program 6 th ED, P. J. Deitel, 2002 n Internet	, P. J. Deitel, 2002 Internet Internet Indian like the line of

الجامعة: جامعة بغداد الكلية: تربية بنات اسم القسم: الحاسبات

اسم العسم: الحاسب الحاسب المرحلة: الثانية

اسم المحاضر الثلاثي: عفاف بديع جميل

اللقب العلمي: مدرس

المؤهل العلمي: دكتوراه

مكان العمل : جامعة بغداد - تربية بنات - قسم الحاسبات



جمهورية العراق وزارة التعليم العالي والبحث العلمي جهاز الاشراف والتقويم العلمي

جدول الدروس

الاسبوعي

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الملاحظات	المادة العملية	المادة النظرية	التاريخ	الاسبوع
	Introduction to JAVA	History of Java , The Java Programming ,Language, Running		1
	Write Simple Java Program	Programs in Java The Java Platform, Java Program Execution, Types of Java Programs, Writing		*
	Solving Homework	Simple Application, Writing Simple Applet, Data Types, Final Variables,		٣
	Print Statement	Binary Arithmetic Operators, Unary Arithmetic ,Operators, Relational and Conditional Operators		£
	If and for Statements	Shift and Logical Operators, Shortcut Assignment Operators		٥
	Switch Statement	if/else Statements, The switch Statement		٧
	While and do while Statements	The while and do-while Statements		٨
	Break and continue Statements	The for Statement, The break Statement		٩
	Break and continue Statements	The continue Statement		١.
	Solving Problems	Declaring Classes		11

	Methods	
Solving Problems	Class Constructors	1 4
Solving Problems	Creating Objects,	1 £
	Declaring a Variable to	
	refer to an Object	
	Review	10
	Exam 2 عطلة نصف السنة	١٦
Using		1 7
Constructers	Instantiating a Class, Initializing an Object,	, ,
	Using Objects,	
	Referencing an Object's	
	Variable,	
	variable,	
Application the	Calling an Object's	۱۸
Theoretical Text	Methods, Cleaning Up	
	Unused Objects, The	
	Garbage Collector,	
	Finalization	
Application the	Using Methods, Static	۱۹
Theoretical Text	Methods, Argument	
	Promotion and Casting	
Application the	Scope of Declarations	۲.
Theoretical Text	Method,	
	Overloading	
Application the	Declaration and	۲۱
Theoretical Text	Creation, Using Arrays,	
	The Enhanced for	
	statement	
Application the	Passing Arrays to	44
Theoretical Text	Methods,	
	Multidimensional	
	Arrays	
	E 1	۲۳
Application the	Exam 1	* * * * * * * * * * * * * * * * * * *
Theoretical Text	Variable-Length Argument List	. •
Application the	this Reference	70
Theoretical Text	uns reference	
Application the	Composition,	47
Theoretical Text	Enumeration	
Application the	Superclass and	* *
Theoretical Text	Subclass	
Application the	Constructors and	۲۸
Theoretical Text	Finalizers in Subclasses	
Application the	Three-Level inheritance	4 4
Theoretical Text	HierarchyProtected	
	member	
Application the	Invoking a Superclass	 ٣.

Exam	Using Superclass, references with	٣١
	Subclass Variables, Abstract Classes and	
	Methods	
	Exam 2	77

توقيع الاستاذ: توقيع العميد:



University: Baghdad University College: Education for Women Department: Computer Science

Stage: second Stage

Lecturer name: Afaf Badie Academic Status: Lecturer Qualification: Ph. D Place of work:Baghdad University/ Education for

Women/CS Dept.

Course Weekly Outline

Course Instructor	JAVA Programming Language
E_mail	afafbad@yahoo.com
Title	JAVA Programming Language
Course Coordinator	Afaf Badie Jamil
Course Objective	Learn How to Write Programs in JAVA
Course Description	Introduction to Java, History of Java, The Java Programming Language, Running Programs in Java, The Java Platform, Java Program Execution, Types of Java Programs, Writing Simple Application, Writing Simple Applet, Data Types, Final Variables, Binary Arithmetic Operators, Unary Arithmetic Operators, Relational and Conditional Operators, Shift and Logical Operators, Shortcut Assignment Operators, The if/else Statements, The switch Statement, The while and do- while Statements, The for Statement, The break Statement, The continue Statement, Declaring Classes, Member Variables and Methods, Class Constructors, Creating Objects, Declaring a Variable to refer to an Object, Instantiating a Class, Initializing an Object, Using Objects, Referencing an Object's Variable, Calling an Object's Methods, Cleaning Up Unused Objects, The Garbage Collector, Finalization, Using Methods, Static Methods, Argument Promotion and Casting, Scope of Declarations, Method Overloading, Declaration and Creation, Using Arrays, The Enhanced for Statement, Passing Arrays to Methods, Multidimensional Arrays, Variable-Length Argument List, this Reference, Composition, Enumeration, Superclass and Subclass, Constructors and Finalizers in Subclasses, Three-Level Inheritance Hierarchy, Protected Members, Invoking a

	Classes and Methods						
Textbook	JAVA how to program 6 th ED, H. M. Deitel, P. J. Deitel, 2002						
References	Internet						
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam		
	As (20%)	As (5%)	As (5%)		As (50%)		
General Notes							



University:Baghdad University College:Education for Women Department: Computer Science Stage: Second Stage Lecturer name:Afaf Badie

Academic Status:Lecturer Qualification:Ph. D. Place of work:Baghdad University/Education for Women/CS Dept.

Course weekly Outline

	Course	weekly Outline		
week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		History of Java, The Java Programming, Language, Running Programs in Java	Introduction to JAVA	
2		The Java Platform, Java Program Execution, Types of Java Programs, Writing Simple Application,	Write Simple Java Program	
3		Writing Simple Applet, Data Types, Final Variables,	Solving Homework	
4		Binary Arithmetic Operators, Unary Arithmetic ,Operators, Relational and Conditional Operators	Print Statement	
5		Shift and Logical Operators, Shortcut Assignment Operators	If and for Statements	
6		Exam 1		
7		if/else Statements, The switch Statement	Switch Statement	
8		The while and do-while Statements	While and do while Statements	
9		The for Statement, The break Statement	Break and continue Statements	
10		The continue Statement	Break and continue Statements	
11		Declaring Classes	Solving Problems	
12		Member Variables and Methods	Solving Problems	
13		Class Constructors	Solving Problems	
14		Creating Objects, Declaring a Variable to refer to an Object	Solving Problems	

16	Exam 2	Exam	
10	Half-year Break		
17	Instantiating a Class,	Using Constructers	
17	Initializing an Object,	3 g 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
	Using Objects,		
	Referencing an Object's		
	Variable,		
	variable,		
18	Calling an Object's	Application the	
	Methods, Cleaning Up	Theoretical Text	
	Unused Objects, The		
	Garbage Collector,		
	Finalization		
19	Using Methods, Static	Application the	
	Methods, Argument	Theoretical Text	
	Promotion and Casting		
20	Scope of Declarations	Application the	
	Method,	Theoretical Text	
	Overloading		
21	Declaration and Creation,	Application the	
	Using Arrays, The	Theoretical Text	
	Enhanced for statement		
22	Passing Arrays to	Application the	
	Methods,	Theoretical Text	
	Multidimensional Arrays		
23	Exam 1		
24	Variable-Length	Application the	
	Argument List	Theoretical Text	
25	this Reference	Application the	
26	Commonition	Theoretical Text Application the	
26	Composition, Enumeration	Theoretical Text	
27		Application the	
21	Superclass and Subclass	Theoretical Text	
28	Constructors and	Application the	
	Finalizers in Subclasses	Theoretical Text	
29	Three-Level inheritance	Application the	
	HierarchyProtected	Theoretical Text	
	member		
30	Invoking a Superclass	Application the	
	Methods from Subclass	Theoretical Text	
	Objects		
31	Using Superclass,	Exam	
	references with Subclass		
	Variables, Abstract		
	Classes and Methods		
32	Exam 2		