



51. Course Specification of Artificial Intelligence

I.Course Identification and General Information:						
.1	Course Title:	Artificial Intelligence.				
.2	Course Code & Number:	MT402.				
.3	Credit hours:	C.H			TOTAL CR. HRS.	
		Th.	Seminar	Pr		Tu.
		2	-	2	-	3
.4	Study level/ semester at which this course is offered:	Fifth Year-First Semester.				
.5	Pre –requisite (if any):	Computer Skills .				
.6	Co –requisite (if any):	None.				
7.	Program (s) in which the course is offered:	Mechatronics Engineering Program.				
8.	Language of teaching the course:	English Language.				
.9	Location of teaching the course:	Mechatronics Engineering Department.				
10.	Prepared By:	Assoc. Prof. Dr. Ahmed Al-Arashi.				
11.	Date of Approval:					

II.Course Description:		
<p>This course combines class room lectures with laboratory exercises. The course introduces the Artificial Intelligence (AI) concepts, techniques and area of applications. The course will introduce the AI programming language PROLOG with comprehensive laboratory exercises to master the major principles of the language. As an application, concept, principals and procedures of building Expert Systems will be explained. The student is expected to develop a small expert system for a selective industrial application.</p>		
III.Course Intended learning outcomes (CILOs) of the course	Referenced PILOs	
a1.	Define the concept of AI and Machine Learning.	A1
a2.	Recognize the difference between data, information and knowledge.	A3
b1.	Analyze problems solving techniques.	B2
b2.	Categorize experts domains knowledge and organize them in an appropriate knowledge representation form.	B5
c1.	Apply practical programming skills to build simple expert system and Machine learning module.	C2
d1.	Co-operate well as a part of team in developing expert system and machine learning module.	D1

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d2.	Rate domains experts interviewing skills to extract their knowledge and understand their reasoning processes.	D2
d3.	Review literature research on various knowledge domains to develop/enhance their knowledge on certain domain so that a realistic and appropriate knowledge bases can be designed.	D7

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
Define the concept of AI and machine learning. a1.	<ul style="list-style-type: none">Lectures and class discussion.	<ul style="list-style-type: none">Quizzes and mid-term and final exams.
Recognize the difference between data, and knowledge. information a2.	<ul style="list-style-type: none">Lectures and class discussion.	<ul style="list-style-type: none">Quizzes and mid-term and final exams.

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
Analyze problems solving techniques. b1.	<ul style="list-style-type: none">Lectures and class discussion.	<ul style="list-style-type: none">Quizzes, mid-term and final exams.
Categorize experts domains knowledge organize them in and appropriate knowledge an form. representation b2.	<ul style="list-style-type: none">Lectures and class discussion.	<ul style="list-style-type: none">Quizzes and final exams.

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
Apply practical programming skills to simple expert build machine system and learning module. c1.	Lectures, class discussion and practical classes.	Final exam, mid-term and practical exam.

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:

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Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
Co-operate well as a part of team in developing expert system and machine learning module. d1.	Lectures, class discussion and practical classes.	Final exam and practical exam.
Rate domains experts skills to extract Interviewing their knowledge and their reasoning understand processes. d2.	Lectures, class discussion and practical classes.	Final exam and practical exam.
Review literature research on domains various knowledge develop/enhance their to on certain domain so that knowledge realistic and appropriate a knowledge bases can be designed. d3.	Lectures, class discussion and practical classes.	Final exam, mid-term and practical exam.

IV.Course Content:					
A – Theoretical Aspect:					
Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	Contact Hours
1.	Introduction to AI.	a1 and a2	<ul style="list-style-type: none"> • Definition. • History. • Area of application. • Inelegant agent. • Difference between AI & conventional programs. • AI tools and languages. 	1	2
2.	Prolog Programming.	a2 and c1	<ul style="list-style-type: none"> • Data objects. • Facts. • Rules. • Matching. • Arithmetic. • Recursion. • Cut. • Lists 	3	6

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3.	Problem and Problem Space.	b1 and d3	<ul style="list-style-type: none"> • Problem definition • problem components • problem types. • State space diagram • form of state space. • Diagrams problem. • Characteristics. 	2	4
4.	Search.	d3	<ul style="list-style-type: none"> • Definition. • Evaluation criteria. • Type of search. • Blind search. • Depth first. • Breadth first. • Heuristic search. 	2	4
5.	Mid - Term Exam.	a1, a2,b1, c1	<ul style="list-style-type: none"> • The First 4 Chapters. 	1	2
6.	Knowledge.	b2, d1 and d2	<ul style="list-style-type: none"> • Important conclusions. 	1	2
7.	Expert System.	a1, a2, b1, d2 and d3	<ul style="list-style-type: none"> • Introduction knowledge representation. • Inference methods. • Expert system structure. 	3	6
8.	Machine Learning.	a1 and d3	<ul style="list-style-type: none"> • Introduction. • Learning from examples. • Examples. • Learning simple. 	2	4
9.	Final Exam.	a1, a2,b1, c1	<ul style="list-style-type: none"> • All the Chapters. 	1	2
Number of Weeks /and Units Per Semester				16	32

B - Practical Aspect:				
Order	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes
1.	Introduction to PROLOG Compiler.	1	2	a1
2.	PROLOG Programming Basics (Data Objects, Facts, Rules,	1	2	a1 and d3

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	Matching, Arithmetic, Recursion, Cut and Lists).			
3.	Search using PROLOG.	1	2	a1 and b1
4.	Knowledge Representation Inference using PROLOG.	1	2	b1, b2 and d2
5.	Introduction to Python.	1	2	a1
6.	Introduction to Machine Learning using Python.	1	2	a1 and c1
7.	Supervised Learning.	1	2	a1, a2 and c1
8.	Unsupervised Learning.	1	2	a1, a2 and c1
9.	Introduction to Neural Network and Deep Learning using Tensor Flow.	1	2	a1, a2 and c1
10.	Project (Building an Expert System).	2	4	c1, d1, d2 and d3
11.	Project (Machine Learning).	2	4	c1, d2 and d3
12.	Practical Exam.	1	2	a1, a2, b1, b2, c1, d1, d2, d3
Number of Weeks /and Units Per Semester		14	28	

V. Teaching strategies of the course:

- Class Lectures.
- Practical Lab Classes.
- Exercises and Homework.
- Projects.
- Interactive Class Discussion.

VI. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Lab. 1- Lab.11	a1, a2, b1, b2, c1, d1, d2 and d3.	1-14	10
Total				10

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VII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1.	Exercises, Quizzes Home Works (including lab).	1-14	15	10%	a1, a2, b1,b2, c1
2.	Project (written report, presentation and practical exam).	13-15	30	20%	c1, d2 and d3
3.	Mid-Term Exam.	9	15	10%	a1, a2,b1, c1
4.	Final Exam (theoretical).	16	90	60%	a1, a2, b1,b2, ,c1
Total			150	100%	

VIII. Learning Resources:

- Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

- 1- Stuart Russell and Peter Norving, 2010, “Artificial Intelligence a Modern Approach”, Third Edition, Pearson Education, Inc. Publishing as Prentice Hill.
- 2- Ivan Bratko, 2011, “Prolog Programming for Artificial Intelligence” 4th Edition, Addison Wesley Educational Publication Inc.

2- Essential References.

- 1- George F. Luger, ” Artificial Intelligence Structures and Strategies for Complex Problem Solving”, Sixth Edition, Pearson Education, Inc.
- 2- Andreas C. Müller and Sarah Guido, “Introduction to Machine Learning with Python, 1st Edition.
- 3- Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems.

3- Electronic Materials and Web Sites etc.

- 1- <https://www.terarecon.com/artificial-intelligence-ebook>.
- 2- <https://www.visual-prolog.com/video/>.
- 3- <http://scikit-learn.org/stable/tutorial/index.html>.
- 4- <https://www.tensorflow.org/tutorials>.

IX. Course Policies:

- Unless otherwise stated, the normal course administration policies and rules of the Faculty of Engineering apply. For the policy, see: Resolution No.284 for the year 2008 about Unified Regulation for the Students Affairs in Governmental Universities

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- The University Regulations on academic misconduct will be strictly enforced. Please refer to above Resolution No.284..	
1.	Class Attendance: The students should have more than 75 % of attendance according to rules and regulations of the faculty.
2.	Tardy: The students should respect the timing of attending the lectures. They should attend within 10 minutes from starting of the lecture.
3.	Exam Attendance/Punctuality: The student should attend the exam on time. The punctuality should be implemented according to rules and regulations of the faculty for midterm exam and final exam.
4.	Assignments & Projects: The assignment is given to the students after each chapter, the student has to submit all the assignments for checking on time.
5.	Cheating: If any cheating occurred during the examination, the student is not allowed to continue and he has to face the examination committee for enquiries .
6.	Plagiarism: The student will be terminated from the Faculty, if one student attends the exam on another behalf according to the policy, rules and regulations of the university.
7.	Other Policies: All the teaching materials should be kept out the examination hall. - The mobile phone is not allowed. - There should be a respect between the student and his teacher.

Reviewed By	Vice Dean for Academic Affairs and Post Graduate Studies: Asst. Prof. Dr. Tarek A. Barakat. President of Quality Assurance Unit: Assoc. Prof. Dr. Mohammed Algorafi. Head of Mechatronics Engineering Department: Assoc. Prof. Dr. Abdul-Malik Momin.
	Deputy Rector for Academic Affairs Assoc. Prof. Dr. Ibrahim AlMutaa. Assoc. Prof. Dr. Ahmed Mujahed. Asst. Prof. Dr. Munaser Alsubari.

Template for Course Plan of Artificial Intelligence

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I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Assoc. Prof. Dr. Ahmed Al-Arashi	Office Hours					
Location & Telephone No.	775252177	SAT	SUN	MON	TUE	WED	THU
E-mail	Aalarashi6@gmail.com			2			

II. Course Identification and General Information:						
1.	Course Title:	Artificial Intelligence.				
2.	Course Number & Code:	MT402.				
3.	Credit hours:	C.H				Total Cr. Hrs.
		Th.	Seminar	Pr.	Tu.	
		2	-	2	-	3
4.	Study level/year at which this course is offered:	Fifth Year-First Semester.				
5.	Pre –requisite (if any):	Computer Skills.				
6.	Co –requisite (if any):	None.				
7.	Program (s) in which the course is offered	Mechatronics Engineering Program.				
8.	Language of teaching the course:	English Language.				
9.	System of Study:	Semesters.				
10.	Mode of delivery:	Lectures and Labs.				
11.	Location of teaching the course:	Mechatronics Engineering Department.				

III. Course Description:
This course combines class room lectures with laboratory exercises. The course introduces the Artificial Intelligence (AI) concepts, techniques and area of applications. The course will introduce the AI programming language PROLOG with comprehensive laboratory exercises to master the major principles of the language. As an application, concept, principals and procedures of building Expert Systems will be explained. The student is expected to develop a small expert system for a selective industrial application.

IV. Course Intended learning outcomes (CILOs) of the course	Referenced PILOs
a1. Define the concept of AI and Machine Learning.	A1

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a2.	Recognize the difference between data, information and knowledge.	A3
b1.	Analyze problems solving techniques.	B2
b2.	Categorize experts domains knowledge and organize them in an appropriate knowledge representation form.	B5
c1.	Apply practical programming skills to build simple expert system and Machine learning module.	C2
d1.	Co-operate well as a part of team in developing expert system and machine learning module.	D1
d2.	Rate domains experts interviewing skills to extract their knowledge and understand their reasoning processes.	D2
d3.	Review literature research on various knowledge domains to develop/enhance their knowledge on certain domain so that a realistic and appropriate knowledge bases can be designed.	D7

V.Course Content:				
A – Theoretical Aspect:				
Order	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
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2.	Prolog Programming.	<ul style="list-style-type: none"> • Data objects. • Facts. • Rules. • Matching. • Arithmetic. • Recursion. • Cut. • Lists 	3	6
3.	Problem and Problem Space.	<ul style="list-style-type: none"> • Problem definition problem components problem types. • State space diagram form of state space. • Diagrams problem. • Characteristics. 	2	4

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4.	Search.	<ul style="list-style-type: none"> • Definition. • Evaluation criteria. • Type of search. • Blind search. • Depth first. • Breadth first. • Heuristic search. 	2	4
5.	Mid - Term Exam.	<ul style="list-style-type: none"> • The First 4 Chapters. 	1	2
6.	Knowledge.	<ul style="list-style-type: none"> • Important conclusions. 	1	2
7.	Expert System.	<ul style="list-style-type: none"> • Introduction knowledge representation. • Inference methods. • Expert system structure. 	3	6
8.	Machine Learning.	<ul style="list-style-type: none"> • Introduction. • Learning from examples. • Examples. • Learning simple. 	2	4
9.	Final Exam.	<ul style="list-style-type: none"> • All the Chapters. 	1	2
Number of Weeks /and Units Per Semester			16	32

B - Practical Aspect:

Order	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes
1.	Introduction to PROLOG Compiler.	1	2	a1
2.	PROLOG Programming Basics (Data Objects, Facts, Rules, Matching, Arithmetic, Recursion, Cut and Lists).	1	2	a1 and d3
3.	Search using PROLOG.	1	2	a1 and b1
4.	Knowledge Representation Inference using PROLOG.	1	2	b1, b2 and d2.
5.	Introduction to Python.	1	2	a1
6.	Introduction to Machine Learning using Python.	1	2	a1 and c1
7.	Supervised Learning.	1	2	a1, a2 and c1

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8.	Unsupervised Learning.	1	2	a1, a2 and c1
9.	Introduction to Neural Network and Deep Learning using Tensor Flow.	1	2	a1, a2 and c1
10.	Project (Building an Expert System).	2	4	c1, d1, d2 and d3
11.	Project (Machine Learning).	2	4	c1, d2 and d3
12.	Practical Exam.	1	2	a1, a2, b1, b2, c1, d1, d2 and d3
Number of Weeks /and Units Per Semester		14	28	

VI. Teaching strategies of the course:

- Class Lectures.
- Practical Lab Classes.
- Exercises and homework.
- Projects.
- Interactive Class Discussion.

VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Lab. 1- Lab.11	a1, a2, b1, b2, c1, d1, d2 and d3.	1-14	10
Total				10

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
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IX. Learning Resources:	
<ul style="list-style-type: none"> Written in the following order: (Author – Year of publication – Title – Edition – Place of publication – Publisher). 	
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3- Electronic Materials and Web Sites etc.	
1- https://www.terarecon.com/artificial-intelligence-ebook . 2- https://www.visual-prolog.com/video/ . 3- http://scikit-learn.org/stable/tutorial/index.html . 4- https://www.tensorflow.org/tutorials .	

X. Course Policies:	
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	The assignment is given to the students after each chapter, the student has to submit all the assignments for checking on time.
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