



Ministry of Higher Education and  
Scientific Research – Iraq

College of Engineering for Artificial  
Intelligence Technology

Artificial Intelligence Department



### Module Information

معلومات المادة الدراسية

<b>Module Title</b>	<b>Introduction To Artificial Intelligence I</b>		<b>Module Delivery</b>	
<b>Module Type</b>	<b>C</b>		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
<b>Module Code</b>	<b>AIF1</b>			
<b>ECTS Credits</b>	<b>4</b>			
<b>SWL(hr/sem)</b>	<b>100</b>			
<b>Module Level</b>	<b>1</b>	<b>Semester of Delivery</b>		
<b>Administering Department</b>	BSc - COMM	<b>College</b>	College of Engineering for Artificial Intelligence Technology	
<b>Module Leader</b>	Qahtan Majeed Yas		<b>e-mail</b>	qahtan.myas@uodiyala.edu.iq
<b>Module Leader's Acad. Title</b>	Accos.Prof.Dr	<b>Module Leader's Qualification</b>	Ph.D: C.S	
<b>Module Tutor</b>		<b>e-mail</b>		
<b>Peer Reviewer Name</b>		<b>e-mail</b>		
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>		

### Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

<b>Prerequisite module</b>	None	<b>Semester</b>	
<b>Co-requisites module</b>	None	<b>Semester</b>	

### Module Aims, Learning Outcomes and Indicative Contents



Ministry of Higher Education and  
Scientific Research – Iraq  
College of Engineering for Artificial  
Intelligence Technology  
Artificial Intelligence Department



أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

**Module Objectives**

أهداف المادة الدراسية

**A. Congestive Goals:**

1. Understanding and teaching the student the concepts and principles of smart systems.
2. Enabling students to obtain knowledge and full understanding of all computer skills and applications.
3. Understanding and introducing the student to all the skills theoretically and practically and introducing him to all parts of the artificial intelligence systems in which the skill is applied, in addition to the practical application on the machine for each student and for all skills.
4. Enabling students to obtain knowledge and understanding of all parts of smart systems and the benefit of each part.
5. Enabling students to obtain knowledge and understanding to diagnose the types of work performed by smart applications and how to work on them.

**B- Skills objectives of the programme:**

1. Explaining the skills in detail and applying them on the computer practically, and stressing to the students the necessity of adhering to the rules of moral and intellectual integrity.
2. Provide them with information and methods for solving practical problems related to all skills.
3. Topics of some applications are presented practically and theoretically.
4. The focus is on practical skills and the need for the student to participate in the practical.

**Module Learning  
Outcomes**

مخرجات التعلم للمادة  
الدراسية

**Learning outcomes for the subject:**

- 1- Building the student scientifically and practically and qualifying him to work in the field of artificial intelligence engineering.
- 2- Build and prepare the student psychologically to play his role as a reliable engineer in artificial intelligence.
- 3- Building students capable of competing with other engineers for job opportunities and obtaining the required seats to complete postgraduate studies.
- 4- Ability to apply for external tests by local, regional, or international bodies for the purpose of completing studies or appointment.



Ministry of Higher Education and  
Scientific Research – Iraq

College of Engineering for Artificial  
Intelligence Technology

Artificial Intelligence Department



	<p>5- Urging the student to be creative and think about specialized projects and keep pace with developments in this field.</p> <p>6- Providing students with scientific, practical, and personal skills that enable them to solve practical problems and deal with them using scientific concepts</p>
<p><b>Indicative Contents</b> المحتويات الإرشادية</p>	<p>* Daily exams with practical and scientific questions.</p> <p>* Participation marks for difficult competition questions among students.</p> <p>* Setting grades for homework assignments and reports assigned to them. Quarterly exams for the curriculum, in addition to the mid-year exam and final exam.</p>

<p><b>Learning and Teaching Strategies</b> استراتيجيات التعلم و التعليم</p>	
<p><b>Strategies</b></p>	<p>1. Introducing the students to practical exams, team works, prepare students for Higher education.</p> <p>2. Teach students how to be creative and to work in teams for innovations.</p> <p>3. Prepare students to be ready to be involved in national and international</p>

<p><b>Student Workload(SWL)</b> الحمل الدراسي للطالب محسوبة بال ١٥ اسبوع</p>			
<p><b>Structured SWL(h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل</p>	<p><b>64</b></p>	<p><b>Structured SWL(h/w)</b> الحمل الدراسي المنتظم للطالب اسبوعيا</p>	<p><b>4</b></p>
<p><b>Unstructured SWL (h/sem)</b> الحمل الدراسي اللامنظم للطالب خلال الفصل</p>	<p><b>36</b></p>	<p><b>Unstructured SWL(h/w)</b> الحمل الدراسي اللامنظم للطالب خلال الفصل أسبوعيا</p>	<p><b>1.8</b></p>



Ministry of Higher Education and  
Scientific Research – Iraq  
College of Engineering for Artificial  
Intelligence Technology  
Artificial Intelligence Department



**Total SWL (h/sem)**

الحمل الدراسي الكلي للطلاب خلال الفصل

**100**

### Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight(Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10%(5)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (5)	2 and 12	LO #3, #4 and #6, #7
	Projects/ Lab.	1	10%(10)	Continuous	All
	Report	2	10%(5)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10%(10)	9	LO #1 - #7
	Final Exam	3hr	50%(50)	16	All
Total assessment			100%(100Marks)		

### Delivery Plan (Weekly Syllabus)

المنهاج الأسبوعي النظري

	Material Covered
Week1	A theoretical and practical explanation of the principles of smart programming and an explanation of the danger of not adhering to them in the life of society.
Week2	A theoretical explanation of the vocabulary of smart systems and embedded systems
Week3	Practical application of artificial intelligence applications in health.
Week4	A theoretical explanation of the skill of intelligent systems in dangerous applications.
Week5	A simplified explanation of the capabilities of smart systems.
Week6	A theoretical and practical explanation of the applications of intelligent systems in decision making.
Week7	Using algorithms in smart systems.



Ministry of Higher Education and  
Scientific Research – Iraq

College of Engineering for Artificial  
Intelligence Technology

Artificial Intelligence Department



<b>Week8</b>	Introducing an idea about data mining > Data Mining.
<b>Week9</b>	Practical application for intelligent system design.
<b>Week 10</b>	A theoretical explanation of comparing the human mind with a computer.
<b>Week 11</b>	Provide an idea about the generative intelligent system.
<b>Week 12</b>	Human dialogue with smart systems.
<b>Week 13</b>	Providing an explanation of the impact of smart systems in education.
<b>Week 14</b>	A theoretical explanation of the skill and development of existing equipment in universities.
<b>Week 15</b>	Conducting a dialogue between obstetric systems and students.
<b>Week 16</b>	Explaining the applications that contribute to activating smart systems.

### Delivery Plan (Weekly-Lab Syllabus)

المنهاج الأسبوعي للمختبر (العملي)

	Material Covered
<b>Week1</b>	
<b>Week2</b>	
<b>Week3</b>	
<b>Week4</b>	
<b>Week5</b>	
<b>Week6</b>	
<b>Week7</b>	
<b>Week8</b>	
<b>Week9</b>	
<b>Week 10</b>	
<b>Week 11</b>	
<b>Week 12</b>	



Ministry of Higher Education and  
Scientific Research – Iraq

College of Engineering for Artificial  
Intelligence Technology

Artificial Intelligence Department



Week 13	
Week 14	
Week 15	
Week 16	

### Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	The Internet.	Yes
Recommended Texts	MECH6028 - Mechanical Workshop Practice 2 - CIT Modules	No
Websites	<a href="https://www.coursera.org/browse/workshop-and-engineering/workshop">https://www.coursera.org/browse/workshop-and-engineering/workshop</a> -	

### Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks%	Definition
Success Group (50 - 100)	A- Excellent	امتياز	90-100	Outstanding Performance
	B-Very Good	جيد جدا	80-89	Above average with some errors
	C- Good	جيد	70-79	Sound work with notable errors
	D - Satisfactory	متوسط	60-69	Fair but with major shortcomings
	E - Sufficient	مقبول	50-59	Work meets minimum criteria
Fail Group (0 - 49)	FX –Fail	راسب (فيما المعالجة)	(45-49)	More work required but credit awarded
	F –Fail	راسب	(0-44)	Considerable amount of work required



Ministry of Higher Education and  
Scientific Research – Iraq

College of Engineering for Artificial  
Intelligence Technology

Artificial Intelligence Department



**Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.