

نموذج وصف المقرر

وصف المقرر

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهنماً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولا بد من الربط بينها وبين وصف البرنامج.

Shatt Al-Arab University College	1. المؤسسة التعليمية
Computer science Department	2. القسم العلمي / المركز
Associate professor Hayder Naser Kh.	3. اسم التدريسي
Advanced Intelligent Application	4. اسم / رمز المقرر
Weekly / theoretical and practical	5. أشكال الحضور المتاحة
By year	6. الفصل / السنة
120 hours	7. عدد الساعات الدراسية (الكلي)
01-10-2022	8. تاريخ إعداد هذا الوصف
9. أهداف المقرر	
The aim of this course is to develop applications that use historical and real-time data from user interactions and other sources to make predictions and suggestions, delivering personalized and adaptive user experiences.	
The aim of this course to learn the artificial intelligent algorithms and the applications of these algorithms.	
This course aim to learn some applications in real life.	

10. مخرجات المقرر وطرائق التعليم والتعلم والتقييم

<p>أ- الاهداف المعرفية</p> <p>1- The student learns about intelligence programs and how they work-أ1 2- The student will identify the bugs and malfunctions that get in the software-أ2 3- The student learns about the basis for intelligence systems-أ3 4- The student describes the progress and follow-up of technology in intelligence systems-أ4</p>			
<p>ب - الاهداف المهاراتية الخاصة بالمقرر</p> <p>1- The student developing the skill of experience and expertise in smart devices-ب1 2- The student developing the skill of applying modern practical methods in the use of intelligence programs-ب2 3- The student acquires the skill of using the best methods for AI-ب3</p>			
<p>طرائق التعليم والتعلم</p>			
<p>The presentation slides. Supporting video tutorial. Online International lecture.</p>			
<p>طرائق التقييم</p>			
Semester Exam	Lab	Daily exams	Final exam
30	10	10	50
<p>ج- الاهداف الوجدانية والقيمية</p> <p>1- Works in the spirit of one team-ج1 2- He abides by the ethics of the university institution-ج2 3- Receives and accepts knowledge-ج3</p>			
<p>د - المهارات العامة والتأهيلية المنقولة (المهارات الأخرى المتعلقة بقبالية التوظيف والتطور الشخصي).</p> <p>1- Develop student work in AI laboratories-د1 2- It develops the student's skills on its programs-د2 3- The student acquires the ability to his divisions-د3</p>			

طريقة التقييم	طريقة التعليم	اسم الوحدة / أو الموضوع	مخرجات التعلم المطلوبة	الساعات	الأسبوع
-	Tutorial and lab	Introduction to Applications in Artificial Intelligence		4	1
-	Tutorial and lab	Blocks World Problem-1		4	2
Oral test	Tutorial and lab	Blocks World Problem-2		4	3
Quiz	Tutorial and lab	Example about blocks world		4	4
-	Tutorial and lab	Introduction to genetic algorithm		4	5
-	Tutorial and lab	Genetic algorithm life cycle		4	6
-	Tutorial and lab	Genetic algorithm crossover and mutation		4	7
-	Tutorial and lab	Genetic algorithm example by using mathematical function (Example 1)		4	8
-	Tutorial and lab	Genetic algorithm example by using mathematical function (Example 2)		4	9
Oral test	Tutorial and lab	Genetic algorithm example by using travelling salesman problem (Example 1)		4	10
Quiz	Tutorial and lab	Genetic algorithm example by using travelling salesman problem (Example 2)		4	11
-	Tutorial and lab	Introduction to Ant colony optimization algorithm		4	12
-	Tutorial and lab	Ant colony optimization algorithm life cycle		4	13
-	Tutorial and lab	Ant colony optimization rule construction and pheromone update		4	14
Assignme nt	Tutorial and lab	Ant colony optimization example by using travelling salesman problem (Example 1)		4	15
Lab exam	Lab exam	Lab exam		4	16
Written	First term	First term exam		4	17

exam	exam				
-	Tutorial and lab	Ant colony optimization example by using travelling salesman problem (Example 3)		4	18
-	Tutorial and lab	Introduction to Artificial neural networks		4	19
-	Tutorial and lab	Artificial Neural Networks Architecture		4	20
-	Tutorial and lab	The types of activation function		4	21
Oral test	Tutorial and lab	Application of Artificial Neural Networks-1		4	22
Quiz	Tutorial and lab	Application of Artificial Neural Networks-2		4	23
-	Tutorial and lab	Expert systems		4	24
-	Tutorial and lab	Rules based expert system architecture		4	25
-	Tutorial and lab	Expert systems applications-1		4	26
-	Tutorial and lab	Expert systems applications-2		4	27
Lab exam	Tutorial and lab	Lab exam		4	28
Written exam	Tutorial and lab	Second term exam		4	29
	Tutorial and lab	Second term exam		4	30

12. البنية التحتية	
1-Applications in Artificial Intelligence. 2-Introduction to Genetic Algorithms. 3-Ant Colony Optimization. 4-Introduction to Data Mining.	1- الكتب المقررة المطلوبة
Machine Learning and Artificial Intelligence	2- المراجع الرئيسية (المصادر)

<p>Artificial Intelligence Review – Springer Machine Learning - Springer</p>	<p>أ) الكتب والمراجع التي يوصى بها (المجلات العلمية، التقارير،.....)</p>
<p>1- https://www.tutorialspoint.com/matlab/matlab_overview.htm</p>	<p>ب) المراجع الالكترونية، مواقع الانترنت،.....</p>

<p>13. خطة تطوير المقرر الدراسي</p>	
<ol style="list-style-type: none"> 1. Visiting intelligent laboratories. 2. Preparing an educational laboratory for intelligence systems. 	