Faculty of Com	n University oputers & Information <u>Cerm 2019/2020</u>
Course Name: Artificial Intelligence	Course Code: CSC343
Course Level: 3	Course Dr. Name: Ass. Prof. Shereen Taie
Status: Pass Not Pass:	

Choose one of the following topics for your research:

Topic 1: Agents and environments in Artificial Intelligence including:

Robotic agent definition and architecture, agent programs, rational agents, agent's types, environments types etc...

Topic 2: Searching Algorithms including:

Uninformed Search Strategies (blind search), Informed Search Strategies (heuristic search) talk about in details for at least two algorithms for each type of searching algorithms, the characteristics of each searching algorithm, give an example with solved problem for each selected searching algorithm.

Topic 3: Artificial Intelligence Knowledge Representation Techniques including:

Logic technique, Object-Attribute Value technique, Rules technique, Semantic Networks technique, and Frames technique the characteristics of each Knowledge Representation Techniques, give at least 2 examples with solved problem for each selected Knowledge Representation Techniques.

Topic 4: Rule-based expert systems including:

Introduction and what is knowledge, rules as a knowledge representation technique in expert systems, the main players in the expert systems development team, structure of a rule-based expert system, characteristics of an expert system, forward chaining and backward chaining, give an example with solved problem for each forward chaining and backward chaining.

Topic 5: Understanding AI, Types of Artificial Intelligence including:

1

Main areas of Artificial Intelligence, Understanding Artificial Intelligence, the types of Al classification, Artificial Narrow Intelligence (ANI), Artificial General Intelligence (AGI), Artificial Super Intelligence (ASI), Artificial Intelligence Applications.

The research must include:

- 1- Research Objectives
- 2- Introduction
- 3- Research Details
- 4- Research Applications and Conclusion
- 5- References

Good Luck Ass. Prof. Shereen Taie

- يختار الطالب احد الموضوعات عاليه لاجراء مقالة بحثية
- يكتب البحث الكترونياً ويرسل كملف واحد بصيغة PDF على البريد الالكترونى لاستاذ المقرر عاليه على ان يسمى الملف وكذلك موضوع البريد الالكترونى باسم الطالب ثلاثى والمقرر.
 - سيتم رفض البحوث المتشابة جزئيا او كليا ويعتبر الطلاب المتقدمون بها راسبين في هذه المادة
 - الموضوعات المطروحه هي لما تم تدريسه سواء عن بعد او قبل تعليق الدراسة.