Assignment

Session: Jul– Nov 2022

Course Name: Artificial Intelligence and Soft Computing   **Course Code:** CS3101

Instruction:

1. Mention your **Reg.no, name, and section** on every page of the assignment.
2. Date of Assignment given: 27/09/2022
3. Date of Assignment submission: on or before: 07/11/2022, Midnight on teams

1. Define any problem which must be solved using an AI agent, write down its formal definition(initial state, final state, transition model, path cost), and PEAS.**[CO1, 2]**
2. Identify any search technique(uninformed/informed) to solve the problem, you may compare various techniques as well. **[CO 1,2]**
3. Optimize the solution using any of the studied optimization techniques.**[CO 5]**

Note:

- The implementation of all the above problems will be considered as a project in the lab itself, so select any feasible problem which you may be able to implement.
- No assignment deadline extension will be given, all late submissions will be given Zero marks
- Make a video presentation of your project, explaining all the aspects and running the code execution.
- Share the project in your GitHub repository and share the link of your repo. Both members should have projects in their individual GitHub repos.
- This execution and presentation will be considered for the project in the lab for 20 marks as well, 10 marks for the presentation, 7 marks for the code execution, and 3 marks for the GitHub integration.