## **AIRA - GROUP ASSIGNMENT (10%): RUBRIC**

## **Wall-Following Behavior**

**CLO3:** Demonstrate orally or in written form the solution steps in solving robotics problems using Artificial Intelligence techniques. (A3, PLO4, LOD-C3C)

## MARKS: 15 Marks

- 1) Problem understanding & analysis: 2 marks
- 2) The 7-steps design (see Chapter on Designing Reactive Systems): 7 marks
- 3) Design challenges & limitations of the approach/design tool(s): 3 marks
- 4) A short video and several related figures (e.g., flowchart, systems diagram, behavior tables, finite state machine diagram, etc.): 3 marks

No.	Criteria	0	1	2	3	4	5	6	7	Marks
1.	Problem understanding & analysis	No discussion on the given problem or analysis presented in the report	Discussion on the given problem and BASIC analysis are provided in the report with A FEW assumptions or simplifications proposed	Discussion on the given problem and EXCELLENT analysis are provided in the report with CLEAR assumptions or simplifications proposed						
2.	The 7-steps design	No technical explanation of the project processes is provided in the report	Provided A FEW of the 7- steps in project processes with a BASIC technical explanation	Provided A FEW of the 7- steps in project processes with ACCEPTABLE technical explanation	Provided MOST of the 7-steps in project processes with a BASIC technical explanation	Provided MOST of the 7-steps in project processes with ACCEPTABLE technical explanation	Provided ALL the 7- steps in project processes with a BASIC technical explanation	Provided ALL the 7- steps in project processes with ACCEPTABLE technical explanation	Provided  ALL the 7- steps in project processes with  EXCELLENT technical explanation	

No.	Criteria	0	1	2	3	4	5	6	7	Marks
3.	Design challenges & limitations	No discussions on implementation issues, challenges encountered, or limitations of the approach provided in the report	Provided BASIC discussions on design issues, challenges encountered, OR limitations of the tool(s) in the report	Provided  ADEQUATE discussions on design issues, challenges encountered, AND limitations of the tool(s) in the report	Provided  EXCELLENT  discussions on design issues, challenges encountered, AND  limitations of the tool(s) in the report					
4.	A short video and several related figures	No video and related figures are provided in the report	One VIDEO and A FEW related figures are provided in the report to support the explanation	One VIDEO and an ADEQUATE number of related figures are provided in the report to support the explanation	One VIDEO and an EXCELLENT number of related figures are provided in the report to support the explanation					
TOTAL (Full mark: 15)										
	FINAL MARK (10%)									