National Computing Education Accreditation Council
NCEAC

Course Log Template

PROGRAM(S)TO BE EVALUATED

Course Name <u>Artificial Intelligence - Lab</u>

Catalog Number AL-2002

Instructor Name **Riaz Ahmed**

Weeks	Contents/Topics	Assessment Items
Week 1 (Lab1)	Revision of python-it's famous IDE & Introduction to AI with Practical Examples	Task 1
Week 2 (Lab2)	OOP in Python + Relevant Libraries (Random , Maths Modules)	Task 2
Week 3 (Lab3)	Types of Agents, Environments to implement, Revision of Python concepts & relevant libraries	Task 3
Week 4 (Lab4)	Uninformed Searching Algorithms	Task 4
Week 5 (Lab5)	Informed Searching Algorithms	Task 5
	MidTerm-I(Theory)	
Week 7(Lab6)	Local Search (Beam search, Hill Climbing, Genetic Algorithm)	Task 6

Week 8 (Lab7)	Constraint Satisfaction Problem	Task 7
Week 8	**LAB MID**	
Week 9 (lab8)	Adversarial Search Evolutionary Search Algorithms	Task 8
Week 11 (Lab9)	Dynamic Bayesian Networks, HMM, KF	Task 9
Week 12	**MidTerm-II (Theory)**	
Week 13 (Lab10)	EDA	Task 10
Week 14 (Lab11)	Supervised Learning and Unsupervised Learning	Task 11
Week 15	Project	
Week 16	**Final Lab Exam**	

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Marks Distribution

Lab	15 wtg (Best of 10)
Mid	25 wtg
Final Exam	50 wtg

Project	10 wtg

Instructor Signature: *Riaz Ahmed*

Date: Jan 16th, 2026