



National Computing Education Accreditation Council
NCEAC



NCEAC.DOC.001-E

COURSE DESCRIPTION

NAME OF INSTITUTION	Lahore Garrison University
PROGRAM (S) TO BE EVALUATED	Computer Science , Spring 2022

Course Description :

Course Code	CSC363								
Course Title	Artificial Intelligence								
Credit Hours	3+1								
Prerequisites by Course(s) and Topics									
Assessment Instruments with Weights (homework, quizzes, midterms, final, programming assignments, lab work, etc.)	SESSIONAL (Quizzes, Assignments, Presentations) =25 % Midterm Exam =25 % Final Exam = 50%								
Course Coordinator	Arfa Hassan								
URL (if any)									
Current Catalog Description									
Textbook (or Laboratory Manual for Laboratory Courses)									
Reference Material									
Course Goals									
Course Learning Outcomes (CLOs):	<table><tr><td>At the end of the course the students will be able to:</td><td>Domain</td><td>BT Level*</td></tr><tr><td>* BT= Bloom’s Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain</td><td></td><td></td></tr></table>			At the end of the course the students will be able to:	Domain	BT Level*	* BT= Bloom’s Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain		
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Topics Covered in the Course, with Number of Lectures on Each Topic (assume 15-week instruction and one-hour lectures)

Week	Lecture	Topics Covered
Week 1	1	introduction to AI
	2	AI Tools and Techniques
Week 2	3	Introduction to matlab
	4	Datasets in AI
Week 3	5	Data preprocessing
	6	Feature Extraction
Week 4	7	Pattern Recognition Neural Network
	8	Model Testing
Week 5	9	classifier learner
	10	introduction to fuzzy logic
Week 6	11	Type I Fuzzy
	12	Type II fuzzy
Week 7	13	Neuro fuzzy
	14	Genetic Algorithm
Week 8	1 hours	Mid Term
Week 9	15	python zero I
	16	Python zero II
Week 10	17	File Handling with Python
	18	Uninformed Search
Week 11	19	informed Search
	20	CSV, os , pandas , matplotlib
Week 12	21	Kearas, Sklearn
	22	Tensor flow , open cv
Week 13	23	EDA part I
	24	EDA part II
Week 14	25	Machine Learning part I
	26	Machine Learning part II
Week 15	27	Introduction to Deep Learning
	28	Deep Learning part I
Week 16	29	Yolo , Darknet
	30	Front end Design of AI Base Project I
Week 17	2 hours	Final Term

Laboratory Projects/Experiments Done in the Course

Programming Assignments Done in the Course

Instructor NameArfa Hassan

Instructor Signature

Date