Code: 20ES1601

III B.Tech - II Semester - Regular Examinations - JUNE 2023

AI TOOLS (CIVIL ENGINEERING)

Duration: 3 hours Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level CO – Course Outcome

				Max.							
			BL	CO	Marks						
		UNIT-I	I								
1	Describe the goals of AI? Identify and explain L2 CO1 1										
	any	five real-world applications of AI in various									
	fiel	ds.									
OR											
2	Sun	nmarize the definition of AI in the context of	L2	CO1	14 M						
		i. Thinking Humanly									
		ii. Acting Humanly									
		iii. Thinking Rationally									
		iv. Acting Rationally									
UNIT-II											
3	a)	Discuss about the concept of regression in	L2	CO1	4 M						
		Machine Learning?									
	b)	Show how a supervised machine learning	L3	CO2	10 M						
		algorithm handles a regression task using a									
		suitable example.									

		OR								
4	a)	Explain clustering in Machine Learning?	L2	CO1	4 M					
	b)	Solve an example and demonstrate how a	L3	CO2	10 M					
		clustering algorithm is used to discover								
		clusters in data.								
		UNIT-III								
5 Explain a real-world example and illuminate the L4 CO4 14 M										
	_	gnificance of machine learning algorithms in								
	_	eision making processes.								
OR										
6	Explain and infer the significance of image L4 CO4 1									
	pre	e-processing when performing computer								
	visi	ion tasks with machine learning algorithms								
UNIT-IV										
7	Dei	Demonstrate the functionalities and analyze the L3 CO3 14 M								
	importance of the various types of layers found									
	in a Convolutional neural network architecture.									
		OR								
8	Illu	strate Deep Learning and how does it works?	L3	CO3	14 M					
UNIT-V										
9	a)	Discuss about Natural Language Processing	L2	CO1	4 M					
		in Deep Learning.								
	b)	Illustrate the application of Deep Learning	L3	CO3	10 M					
		algorithms in Natural Language Processing								
		with a suitable example.								
		OR								

10	0	Demonstrate the application of Deep Learning						L3	CO3	14 M
		algorithms	in	Speech	Recognition	with	a			
		suitable example.								