Code: 20ES1601

III B.Tech - II Semester – Regular / Supplementary Examinations APRIL 2024

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

		BL	CO	Max. Marks
UNIT-I				
1	Elaborate the Applications of AI in detail.	L2	CO1	14 M
OR				
2	Discuss the foundations of AI.	L2	CO1	14 M
UNIT-II				
3	Explain about Unsupervised Learning in detail with an example.	L3	CO2	14 M
OR				
4	a) Discuss about Reinforcement Learning in detail with an example.	L3	CO2	7 M

	b)	Explain Linear Regression Model with an example.	L3	CO2	7 M

UNIT-III

5	Explain the role of Recognition in Computer vision with an example.	L4	CO4	14 M

OR

6	Explain the role of Decision making process in Machine Learning.	L4	CO4	14 M

UNIT-IV

7	Explain the CNN architecture with example.	L3	CO3	14 M

OR

8	What are the key architectural components and training techniques that contribute to the effectiveness of convolution neural networks (CNNs) in image recognition tasks, and how do they compare to traditional machine learning approaches?	L3	CO3	14 M

UNIT-V

9	Discuss in detail about the role of Deep Learning in Speech Recognition with an example.	L3	CO3	14 M

	OR			
10	How the Deep Learning uses in computer vision and explain with real time example.	L3	CO3	14 M