



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

	In-Sem Examination-II Summer 2024		
	Exam Seat No.:		
	Academic Year: 2023-2024	Semester: II	
	Name of Programme: F.Y.M.Tech (ETC)	Pattern: 2022	
	Name of Course: ML in Chip Design	Course Code: ETC225108	
	Max. Marks: 30	Duration: 1 Hr	

	<p>Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.</p> <ol style="list-style-type: none">1. This question paper contains <u>2</u> page(s).2. Answer to each new question is to be started on a new page.3. Assume suitable data wherever required, but justify it.4. Draw the neat labelled diagrams, wherever necessary.5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.	
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Question No. 1 Attempt following Question

- a) Elaborate concept of expert system in AI and explain in details (7) CO1
1. Rules Based System
 2. Fuzzy Logic Expert System
 3. Knowledge based expert system

OR

- b) Describe the Six categories of Artificial Intelligence (7) CO1
- c) What is machine learning ? Explain types of machine learning along with examples (8) CO1

OR

- d) Write short note on following machine learning algorithms (8) CO1
1. Support vector machine (SVM)
 2. Naive Bayes

Question No. 2 Attempt following Question

- a) How Heuristics used in problem solving ? (7) CO2

OR

b) What are Six Dominant Algorithmic Pathways in Artificial Intelligence? Explain any three. (7) CO2

c) Explain any of heuristics used for problem solving and decision making using one example. (8) CO2

OR

d) How does domain expertise contribute to the decision-making process in algorithm selection? (8) CO2

Any four domain expertise.

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