Department of Chemical Engineering, IIT(ISM) Dhanbad

Academic Session: Monsoon 2023-24

Course: AI in Process Industries (CHO404)

Content	Tentative no. of classes
Journey of AI and Introduction to Agents	4
Problem-solving by Searching	5-6
Algorithms beyond Classical Search	5-6
Supervised Learning	6-8
Learning with Neural Networks	6-8
Unsupervised Learning	4-5
Other Topics	5

Evaluation:

30 (internal): 2 projects of 10 marks each and 1 quiz of 10 mark
[all these would involve programming on computer]
70 (semester examination): 28 in mid-semester and 42 in end-semester
[pen and paper-based]

* the above are with respect to a scale of 100 marks; not necessarily the actual total marks in an examination

Text books:

• Artificial Intelligence – A Modern Approach *by* Russell and Norvig
• Applied Machine Learning *by* M Gopal

Reference book:

• Different resources for different chapters (will be mentioned during discussion in the class)