

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCES

DEPARTMENT OF ENGINEERING AND PHYSICS

ROBOTICS AND ARTIFICIAL INTELLIGENCE

EEE4209

JUN 2025

Examination Paper

[2]

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: Calculator

INSTRUCTIONS

1. Answer question one and Any other two.
2. Start the answers for each question on a fresh page.

MARK ALLOCATION

QUESTION	MARKS
1.	40
2.	30
3.	30
4.	30
5.	30

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Question 1

a) Production systems provide us with good ways of describing the operations that can be performed in a search for a solution to a problem. What are the characteristics of Production systems?

b) What are the four Categories of Production Systems? [40]

Question 2

a) What are the Reasons for implementation of automated systems in manufacture industries?. [30]

Question 3

a) a) What are the reasons for implementing Robotics automated manufacturing systems in industries. [30]

Question 4

a) Define Robotics explaining clearly with examples. [30]

Question 5

a) Explain types of automations as used in Robotics and Artificial Intelligence and their features.

END OF PAPER