

St. Mira's College for Girls
(Autonomous-Affiliated to Savitribai Phule Pune University)
Subject: Production and Operations Management
Subject Code: CMAJCPOM123528

Semester: I
Year: 2023-24

Unit 4: Skill development -Presentation and Technical skills


INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND ROBOTICS IN MANUFACTURING SYSTEMS :

(A.) (AI) IN MANUFACTURING INDUSRTY :

With so much data being produced daily by industrial IoT and smart factories, artificial intelligence has several potential uses in manufacturing. Manufacturers are increasingly turning to artificial intelligence (AI) solutions like machine learning (ML) and deep learning neural networks to better analyse data and make decisions.

Predictive maintenance is often touted as an application of artificial intelligence in manufacturing. Artificial intelligence (AI) can be applied to production data to improve failure prediction and maintenance planning. This results in less costly maintenance for production lines.

Many more applications and benefits of AI in production are possible, including more accurate demand forecasting and less material waste. Artificial intelligence (AI) and manufacturing go hand in hand since humans and machines must collaborate closely in industrial manufacturing environments.



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