

The Impact of Modern Technologies on Manufacturing Efficiency

Ravi kumar¹ and Dr. Rajinder Singh²

Research Scholar, Department of Management¹

Professor, Department of Management²

Sunrise University, Alwar, Rajasthan, India

Abstract: *This article shows current industrial technologies' potential. Smart factories use supply-and-demand networks and cutting-edge IT to make smart, tailored products. Tech helps smart production. Internet of Things is spawning Industry 4.0, the fourth industrial revolution. Real and virtual supply chain integration, industrial system design, and smart manufacturing components are included. Understanding and using smart manufacturing principles in organizations requires the following. Computer-aided technologies, enterprise resource planning, manufacturing execution systems, manufacturing control systems, and quality management systems will improve manufacturing performance. It controls production and improves outcomes. Mathematics and simulation are used to examine industrial business data and formulation in the life cycle testbed. Cloud manufacturing expands service provider and searcher resources. Image processing and machine vision increase component quality*

Keywords: Smart Manufacturing, Quality Control