

## INTRODUCTION

Analytics in manufacturing refers to the use of operations and events data and technologies in the manufacturing industry to ensure quality, increase performance and yield, reduce costs, and optimize supply chains.

Keeping this in view IMTMA is organizing 3 days online programme on "**Data Analytics for smart manufacturing: virtual workshop**".

This course showcases real life applications of data analytics (descriptive, predictive, and prescriptive) in various functions of industry, such as production, inventory, maintenance, and quality, to discover the hidden patterns, predict the outcomes and improve the outcomes.

Participants will learn to define the right data set, ask the right questions to drive industrial system efficiency and business value, use the right models and tools to develop data-driven decisions.

## FOCUS AREAS

- Dashboard Design and Development using Power BI
- Discovery of insights from manufacturing domain like production, maintenance, procurement, Sales and quality
- Predictive Modelling for significant events
- Forecasting for Manufacturing KPI's
- Complete visibility into the entire manufacturing process, from supply to the end customer, in order to get a 360 degree view and truly optimize the outputs.
- **Hands-on sessions using Orange / Excel / BI**
- **Live Projects: Yield Optimization and Predictive maintenance**
- **Training methodology:** 20 percent theory and 80% hands-on with 2 live projects at the end of the course.

## KEY TAKE AWAYS

After undergoing the program, the participants will be able to learn

- Analyze the data from an unlimited number of sources to identify areas for improvement.
- Ability to understand Basic Key Performance indicators for manufacturing domain
- Discovery methods and prediction methods and hence leverage data for improvement in real time
- Present analytics outcomes to management for actionability

In short, this program would aid professionals for the manufacturing organization to understand how analytics can be used to maximize yield and throughput. Further it can help them maximize their asset utilization by understanding their equipment behaviour and hence reduce the risks and costs associated with downtime or equipment failures.

## FEE PER PARTICIPANT (PER LOGIN)

**Rs. 12500/-**  
+18% GST

**IMTMA Members/ Micro Companies/ Individuals/  
Educational Institutions / Students/ IMTMA Non  
Members/ Others**

**USD 500/-**  
**Overseas Participants**

**Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company**

## FACULTY

This programme will be conducted by **Dr. J. B. Simha**.

**Dr. J. B. Simha**, AI implementation advisor at Numentrix Consulting. He is a Post Graduate in Maintenance Engineering and his PhD is in building Decision Support systems for Manufacturing. He is recognized as one of the top 10 experts in Data Science by Analytics Magazine, India. He has more than 25 years of experience in the development of AI based systems for manufacturing, telecom, health care and Process industries.

### For Registration Contact

**Nagraj Hamilpure**  
**Programme Coordinator**  
9881616902  
[n.hamilpure@imtma.in](mailto:n.hamilpure@imtma.in)

### Contact Address

**INDIAN MACHINE TOOL MANUFACTURERS' ASSOCIATION**  
Plot 249F, Phase IV, Udyog vihar, Sector - 18,  
Gurgaon - 122015  
Tata no- +91-124-6463101  
Tel : 0124 4014101 - 04  
Fax : +91-124-4014108

