

# Workshop on Emerging Trends in Advanced Manufacturing

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Raman Hall, IIT Madras Research Park

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## Introduction

From the time of industrial revolution, manufacturing has been one of the key engines of a nation's progress. Manufacturing paradigms have significantly evolved from craft manufacturing to personalized manufacturing, along with associated servitization. In recent years, advances in 3D/4D printing and cloud computing have opened new possibilities of democratization of manufacturing, along with innovative business models.

This workshop is a joint effort of Professors R K Amit and R P Sundarraj from IIT Madras and Professors Kulwant S Pawar and Svetan Ratchev from University of Nottingham to bring together experts from academia and industry to decipher the emerging trends of advanced manufacturing.

## Topics

**Past, present, and future of manufacturing**  
Significance and role of manufacturing;

Different paradigms—craft production, mass production, mass customization, regionalization & personalized production; Evolution of Business models for different manufacturing paradigms. Global initiatives and trends—Advanced Manufacturing (US), e-factory (Japan), Industrie 4.0 (Germany), Intelligent Manufacturing (China), Make in India (India).

**Additive Manufacturing** Economic characteristics of additive manufacturing; Impact of additive manufacturing on firms' payoff functions and market structure; Economics of online platforms and their relevance for manufacturing; The impact of additive manufacturing on supply chain structure, organization and processes

**Cloud manufacturing** Cooperative and responsive manufacturing; Data-driven manufacturing and digital factory; Manufacturing-as-a-Service (MaaS); Open value chain and Flexible production; Driving and enabling technologies for Factory of

Future; Digital supply chains; Cloud Readiness

## Audience

Industry and academic participants from the relevant domains. Registration is free. Please **REGISTER** here.



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