

Short Term Course on

Lean Manufacturing and Industry 4.0

January 4-8, 2021

Organised by

Department of Production Engineering National Institute of Technology Tiruchirappalli – 620 015. Tamil Nadu, India

Course Coordinators

Dr.S.Vinodh & Dr.P.Senthil

Department of Production Engineering National Institute of Technology Tiruchirappalli – 620 015 Tamil Nadu, India

Mode: Online Video Conferencing (Webex Meetings/Microsoft Teams)

SCOPE OF THE COURSE

firms Manufacturing have been progressing towards transition from mass manufacturing to lean manufacturing. Lean manufacturing enables streamlined processes in terms of waste elimination and value addition. Potential tools of lean manufacturing include 5S, Total Productive Maintenance, Value Stream Mapping. Secondary tools include Poka Yoke, Kanban, Autonomation. Advanced tools of lean manufacturing and lean integration with other strategies such as six sigma, agile and sustainable manufacturing will be focussed. As manufacturing organizations are moving towards Industry 4.0, technologies of Industry 4.0 enabling lean will be focussed. Practical perspectives and industrial applications will be highlighted. Adoption challenges and research issues will be deliberated during the conduct of the course.

COURSE CONTENTS

- Basics of lean manufacturing
- Waste categories
- Primary Lean tools 5S, TPM, Value Stream Mapping
- Secondary lean tools
- Lean implementation
- Lean Six Sigma
- Leagile manufacturing
- Lean and Sustainability
- Industry 4.0 concepts
- Technologies of Industry 4.0 IoT, CPS, IIoT, Additive Manufacturing
- Lean integration with Industry 4.0
- Performance measurement
- Industrial applications

COURSE FACULTY

The course faculty include Experts from reputed institutions, industries and R&D organizations.

ELIGIBILITY

Faculty Members from technical institutions approved by AICTE, Ph.D. Research Scholars and PG students are eligible. Participants from industry are also eligible to attend the programme.

REGISTRATION FEE

Participants are requested to initially fill their details in Google form link:

https://forms.gle/XtFAHE5i97THqKF8A

Upon confirmation by the Coordinator, Participants are requested to make payment: Ph.D. research scholars and Post Graduate students: Rs 1000/-*

Faculty members and Industrial participants: Rs 1500/- *

*The registration fee is inclusive of 18% GST Registration fee to be paid through State Bank collect (State Bank of India).

Further details regarding registration will be mailed to the participants later from the Coordinator Office.

Participants are requested to send the proof of payment after making online payment with the filled in registration form to the Coordinator email ID: vinodh@nitt.edu.

REGISTRATION FORM

Short Term Course on

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1. Name:

2. Gender (M/F):
3. Qualification:
4. Designation:
5. Department:
6. Organization:
7. Experience:
8. Mailing: Address
Phone: Email:
9. Details of Registration Fee Payment
Amount: Transaction Ref No.:
Date:
Bank name & Place:
Include Proof of transaction

Signature of the Applicant with Date

DECLARATION BY THE APPLICANT

The above mentioned information is true to the best of my knowledge and belief. I agree to abide by the rules and regulations governing the Short Term Course. I shall attend the course for the entire duration.

Place:

Date: Signature of Applicant

IMPORTANT DATES

Last date for receiving details in Google Link

form: 18.12.2020

Intimation from the Coordinator office: 21.12.2020

Last date for receipt of proof of payment:

25.12.2020

Intimation of final selection (By Email):

28.12.2020

Participants are requested to attend the course for the entire duration. Details of Course link and schedule will be sent to the registered participants through email. Electronic Certificates will be mailed to the registered participants upon satisfactory completion of the course.

ADDRESS FOR CORRESPONDENCE

Dr.S.Vinodh

Coordinator

Department of Production Engineering National Institute of Technology Tiruchirappalli – 620 015 Tamilnadu, India.

Mobile: 9952709119 Email: vinodh@nitt.edu

ABOUT THE INSTITUTE

The National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli, situated in the heart of Tamil Nadu on the banks of river Cauvery, was started as a joint and co-operative venture of the Government of India and the Government of Tamil Nadu in 1964 with a view to catering to the needs of man-power in technology for the country. The college has been conferred with autonomy in financial and administrative matters to achieve rapid development. Because of this rich experience, this institution was granted Deemed University Status with the approval of the UGC/AICTE and Govt. of India in the year 2003 and renamed as National Institute of Technology. National Institute of Technology Trichy is one of the 31 National Institutes of Technology established by the Government of India. The institution offers Under Graduate Courses in ten branches and Post Graduate Courses in twenty-one disciplines of Science, Engineering & Technology besides M.S. (by Research) and Ph.D. in all the departments.

ABOUT THE DEPARTMENT

The Department of Production Engineering is one of the best in the country. Established in the year 1983, the department strives towards excellence in the fields of manufacturing and industrial engineering. The vision of the department is to become a centre of excellence for learning, research and model manufacturing. It was declared as the best department of the institute for the year 2006-07. The Department of Production Engineering offers B.Tech. (Production Engineering) M.Tech. (Manufacturing Technology, Industrial Engineering & Management), M.S. and Ph.D. programs. The highly experienced faculty of the department contributes to the vital role in academic research. Many research papers have been published in reputed national/international journals and conferences by the faculty. Government of India has recognized this Department as a Centre for Quality Improvement Programme in PG and Ph.D. courses.