

Implementing Industry 4.0

Two-day Training Program

Pune, India | January 18-19, 2019

PROGRAM BRIEF

The rise of digital industrial technology, known as Industry 4.0, has transformed the machines and IT systems that are connected in the value chain. The connected systems on a cyber-physical platform not only interact with one another using the internet but also analyze critical data, predict failure, and adapt to important changes, improving the overall efficiency of the systems and minimizing risks. Industry 4.0 is transforming production, leading to greater productivity, and is changing traditional production relationships among suppliers, producers, customers and importantly, between humans and machines. QLeap Academy has partnered with Fraunhofer IWU, Germany to conduct a two-day training program on Industry 4.0. This program is aimed at manufacturers, technology managers and top management who want to adopt elements of Industry 4.0 that are implemented by companies in Europe and USA. The program will combine case studies and practical experiences from top scientists in the field and will highlight the state-of-the-art technological advances, processes and strategy.

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WHAT YOU WILL LEARN

- Gain a thorough insight on current state-of-the-art smart manufacturing
- Understand the 9 pillars of Technology Advancement
- Evaluate the importance of Research and Social Influence to Industry 4.0
- Study the Core Concepts of Industry 4.0 (Cyber Physical Production Systems, Industrial Internet of Things)
- Find the gaps between current reality and the vision of Industry 4.0
- Make your own assessment on 'Manufacturing Maturity Index'
- Identify functions that will be replaced by intelligent systems
- List the steps to be taken for being Industry 4.0 ready

WHO IT IS FOR

- CXOs
- Presidents and Vice Presidents
- Heads of R&D, Engineering and Manufacturing
- Product and Systems Design Professionals
- Chief Technologists and Innovation Leaders
- Senior Scientist of Research Institutes
- Corporate Planners and Strategists
- Heads of New Venture Development
- Other senior managers with leadership responsibility

PROGRAM INFORMATION

Program Date:

January 18 & 19, 2019

Location:

Pune, MH, India

Contact:

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FACULTY



Prof. Dr.-Ing. Steffen Ihlenfeldt



Prof. Dr.-Ing. Steffen Ihlenfeldt studied at the TU Braunschweig and has held various positions at the Fraunhofer Institute for Machine Tools and Forming Technology IWU since 1997. He received his doctorate in 2012 from the Technical University of Chemnitz on the subject of redundant machine tool structures. Since 2015, Prof. Dr.-Ing. Steffen Ihlenfeldt has held the chair professorship for Machine Tool Development and Adaptive Controls at the TU Dresden. In addition to his work at the TU Dresden, he is currently head of department for cyber-physical production systems at the Fraunhofer IWU.



Dr. Donato Masi



Dr. Donato Masi is Senior Lecturer in Operations and Supply Chain Management at Aston University in Birmingham, UK. He holds a PhD degree in Management Engineering and an MSc in Mechanical Engineering from Politecnico di Milano, Italy. He is a specialist in Sustainable Operations and Supply Chain Management and has published several scientific papers in the top ranked international journals for this area. He actively collaborates with the industry through private and public funded research projects. He is currently focusing on how digitalisation and the emerging Industry 4.0 approach can enhance the sustainability of operations and supply chains.



Rajesh Shankar Priya



Rajesh Shankar Priya is a Senior Scientist at the Department of Technical Cybernetics at Fraunhofer IWU. He has studied in UK, Germany and Russia. He has over 15 years of experience in Systems Engineering mainly in Aerospace and Mechatronic systems. He was the Head of Technology Management at Fraunhofer IMW and was responsible for key technology transfer with Asian companies. He has recently submitted his Engineering Doctorate Thesis in Value Chain at one of the top 50 universities in the world. He has project management experience in working with over 25 countries across all the continents.

FACILITATORS & INDIA EXPERTS



Dr. Aravind Chinchure



Dr. Aravind Chinchure, CEO of QLeap Academy, is a renowned academician, a corporate strategist and an innovation leader. As an innovation coach and advisor, he has created and driven programs to boost innovation, leadership and growth at both Indian and multinational companies. He has been teaching Global Megatrends and its impact on businesses in universities in India. He holds a PhD in Physics and has experience of working in diverse technology areas.



Dr. Rajiv Kumar



Dr. Rajiv Kumar is Director-Corporate Innovations at QLeap Academy. He was Chief Scientist and Head of Tata Chemicals Innovation Centre (TCIC), and worked at National Chemical Laboratory (NCL), Pune, India. He has led several new technology development programs that resulted into first-to-India/world innovative products and solutions. He has around 200 papers published in scientific journals and more than 80 patents to his credit. He is currently researching on the impact of Industry 4.0 on companies in Chemical and Energy sector.

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ABOUT THE INSTITUTIONS



Fraunhofer is Europe's largest application-oriented research organization having 72 institutes located throughout Germany with an annual research budget of 2.3 billion euros. Fraunhofer is known for shaping technology and designing products that significantly impact lives of people. Fraunhofer Institute of Machine Tools and Forming Technology is a leading institute within Fraunhofer for resource-efficient and intelligent production system for the automotive and mechanical engineering sectors.

www.fraunhofer.de/en.html | www.iwu.fraunhofer.de/en.html



The Technical University Dresden (TUD) is one of the largest and leading Technical Universities in Germany. It is one of eleven German universities which succeeded in earning the title of a "University of Excellence". The university has 18 faculties in 5 schools offering courses in 122 disciplines. There are 33,500 students enrolled at TUD with about one-eighth's of its students come from abroad.

<https://tu-dresden.de>



QLeap Academy is established in partnership with Indian and global universities. The academy aims to educate and empower individuals and organizations with 21st century skills and competencies to achieve quantum growth. The academy offers various executive courses in the areas of innovation, entrepreneurship & advanced manufacturing.

www.qleap.in



Picture: Fraunhofer Iwu, Dresden, Germany



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**Creating 21st Century
Professionals & Leaders**