Industry 4.0 and Emerging Manufacturing Technologies

August 06-08, 2018
MDI Campus Gurgaon
Background

The manufacturing industry is currently subject to huge change. This change is caused by various ongoing global megatrends such as globalization, urbanization, individualization, and demographic change, which will considerably challenge the entire manufacturing environment in the future. On the one hand, an increase of worldwide-connected business activities will raise the complexity within manufacturing networks. On the other hand, a volatile demand and customized products of the companies will influence the production and planning processes additionally. These challenging requirements will force companies to adapt their entire manufacturing approach including structure, processes, and products.

Industry 4.0 is marked by a technical integration of Cyber-Physical-Systems in manufacturing and logistics processes as well as the use of the Internet of Things and Services in industrial processes. New technologies will have miscellaneous impact on value creation, work organization, downstream services, and business models of companies. At the forefront of all Industry 4.0 developments, the concept of a Smart Factory plays a significant role in shaping the vision of a new industrial age. In current literature and scientific journals, experts are mentioning a complete paradigm shift in manufacturing. It is said, that a decentralized, self-organizing, and flexible production environment will replace the classical, centrally controlled production hierarchy. This programme lays a foundation how these connective and disruptive technologies can be applied in a variety of industries to bring both leanness and agility in operations.

Objectives

This programme would assist participants

• To understand how firms can utilize information visibility as solution of most of their problems
• To understand how internet of things will create paradigm shift in all aspects of operations management
• To understand applications of RFID in various domains
• To be aware of other emerging disruptive technologies like Neurotechnology, Cloud Computing, 3D Printers, Virtual Reality, Artificial Intelligence.
• To integrate innovative solutions of organizational problems with technological advancements

Contents

• Introduction to Industry 4.0 RFID and other Connective technologies
• Drivers of Industry 4.0
• End-to-end digital integration within a Smart Factory
• Applications of RFID in Supply Chain
• Disruptive Technology/Innovation in Product Development
• Best Practices of Technology enabled Firms
• Technology Management

For Whom

This programme is designed for executives dealing with Design, R&D, Technology and Innovation in their organizations mainly at middle and top level management.

Faculty

Core faculty of MDI and experts in this field will facilitate discussions and share their experience.

Venue & Duration

The programme is scheduled during August 06-08, 2018 on residential basis at MDI Campus, Mehrauli Road, Sukhrali, Gurgaon. Accommodation for participants would be available at MDI campus from the noon of August 05, 2018 to the forenoon of August 09, 2018.

Discount Policy:

With a view to our long term relationship with your esteemed organization, we are pleased to introduce the discount policy in a particular programme. The discount will be observed in the following conditions:

1. 10% Discount against 3-5 nominations
2. 20% Discount against more than 5 nominations

Registration & Fees:

Participants should be nominated by their organizations. The enclosed nomination form should be completed and returned with all the details.

The fee of the program is Rs. 36,000/- (Rupees Thirty Six Thousand only) per participant which includes professional fee and all charges for lodging and boarding and supply of course materials. **GST as applicable will be charged extra in addition to the programme fee.** Payment should be made by a crossed Demand Draft/Cheque/NEFT/RTGS in favour of “Management Development Institute, Gurugram (Haryana)”, and send to the Chief Administrative Officer (Programmes), Management Development Institute, Sukhrali, Mehrauli Road, Sector-17, Gurugram 122001, Haryana, INDIA.

Important Dates:

The last date for receipt of nominations is July 30, 2018. The last date for withdrawal of nominations is July 31, 2018. Any withdrawal received after this date will be subject to deduction as per the Institute’s rules. However, substitution may be permitted.

Nominating organizations are advised to await confirmation of acceptance of nominations(s) before sending the participants to the programme venue.
He has been recipient of SIX excellence awards at MDI, namely Best Trainer (2008-09), Best Teacher (2009-10), Best Teacher (2011-12), Best Trainer (2012-13), Best Teacher (2014-15) and Best Teacher (2016-17) in last 9 years.


He has taken training sessions in on-campus and in-company MDPs conducted for executives of various companies like Nestle India Ltd., Wipro, ACC Limited, ABB, EXL Service, Perfetti Van Melle, Jones Lang LaSalle, Religare, Areva, Samsung, SAS-India, Hewitt International, Jindal Steel, Bajaj Auto Ltd., Hindustan Zinc Ltd., Punjab Ludhiana, Chambal Fertilizers, Petronet LNG Limited, NK Minda Group, DCM Shriram, Roche Pharma, Fortis Healthcare, Eli Lilly, Corporation Bank, Canara Bank, Punjab National Bank, Bank of Rajasthan, Oriental Bank of Commerce (OBC), Indian Oil Corporation Ltd. (IOCL), Oil and Natural Gas Corporation (ONGC), National Thermal Power Corporation (NTPC), Punjab State Electricity Board (PSEB), Bharat Electronics Limited (BEL), LIC of India, Indian Armed Forces, Food Corporation of India (FCI), JSW Energy Ltd., Ford Ricard-India, Electronics Corporation of India Limited (ECIL), Central Warehouse Corporation (CWC), Department of Atomic Energy (DAE), Assam Civil Services, Department of Science and Technology (DST), Department of Posts (Ministry of Communications & Information Technology, Government of India), Geological Survey of India (GSI), Confederation of Indian Industry (CII), Border Security Force (BSF), Central Public Works Department (CPWD), Ministry of Urban Development, Government of India), Defence Research & Development Organization (DRDO, Ministry of Defence, Government of India), National Cooperative Development Corporation (NCDC), Airlines Authority of India (AAI), AGI Giaspnc, Avon Cosmetics, National Buildings Construction Corporation Ltd. (NBCC), Ford Ricard-India, Genpact-India, CREST Leadership Academy (Coca Cola-India), Cairn India, Mahindra & Mahindra, Indian Statistical Services (ISS), Indian Railway Personnel Service (IRPS), NTPC-SAIL Power Company Private Limited (NSPCL)-Bhilai, Magneti Marelli India, Maruti Suzuki India Ltd. (MSIL), Bajaj Corp Ltd., Bajaj Auto Ltd., iQor, Delhi International Airport (P) Limited (DIAL), Tehri Hydro Development Corporation (THDC) India Limited, Water and Power Consultancy Services Limited (WAPCOS), BSES Rajdhani, Bharat Petroleum Corporation Limited (BPCL), National Banking Institute, Nepal, SBI Cards & Payment Services Pvt Ltd.-Gurgaon, Mid-Career Training Programme (Level IV for SAG) of Indian Ordinance Factories (OFB) and Advanced mid-career training programme for IRS officers (Additional and Joint Commissioners of Income Tax).

He has been Programme Director for more than 196 MDPs as well, namely Bharat Electronics Limited (BEL), Advanced mid-career training programme (Overseas, Duke University-USA) for IRS officers, Indian Armed Forces, ONGC (Overseas, Groningen, Antwerp, Paris and Frankfurt), Corporation Bank, Central Warehouse Corporation (CWC), NK Minda Group, Punjab Ludhiana, Defence Research & Development Organization (DRDO), Airports Authority of India (AAI), Magneti Marelli India, Maruti Suzuki India Ltd. (MSIL), Indian Ordinance Factories, SBI Cards & Payment Services Pvt Ltd.-Gurgaon, Global Executive MBA Programme, India Module (in partnership with HHL Leipzig Graduate School of Management, Germany and EADA, Spain).

He has also designed and delivered customized training programme as resource person for companies like Petronet LNG Limited, Jones Lang LaSalle, Samsung, SAS-India, Hewitt International, Perfetti Van Melle, Eli Lilly, Indian Oil Corporation Ltd. (IOCL), NTPC-SAIL Power Company Private Limited (NSPCL)-Bhilai, Bajaj Corp Ltd., Bajaj Auto Ltd.-Dibrugarh, JSW Energy Ltd., Cairn India, Gasquet-India, Bajaj Auto Ltd-Pune and SBI Cards & Payment Services Pvt Ltd.-Gurgaon.

He is visiting professor at IIM-Lucknow, IM-Ranchi, IM-Kashipur, Fore School of Management, Centre for Organisation Development (COD)-Hyderabad and Haryana Institute of Public Administration (HIPA)-Gurgaon for Supply Chain Management and Operations Management courses. He is also associated with many consulting assignments in the area of Operations and Supply Chain Management and developing training modules for the client by assessing their training needs.

He has guided more than 225 dissertations in management field for the students of various post-graduate programmes. Three FPM (Ph.D.) thesis in supply chain management have been successfully completed under his supervision and presently other Two FPM (Ph.D.) thesis are in-process under his guidance. He has published research papers and case studies in supply chain field in various national and international journals and authored study material on World Class Manufacturing.

He can be reached through these coordinates: +91-124-4560377 | http://www.mks507.890m.com | mks@mdi.ac.in
The Management Development Institute (MDI Gurgaon) was established in 1973 with the active support of IFCI following an initial grant received from KPW West Germany. The Institute soon established itself as one of the earliest centers for continuing education in India.

As an endorsement of its front runner position in the field of Post Graduate Education in Management in India, MDI’s PGPM (a two-year full time MBA equivalent program) has been awarded “A” Grade by the National Board of Accreditation of All India Council for Technical Education (AICTE). Various surveys have ranked MDI among the top B-schools of the Country. The MDI is the first Indian B-school with Global accreditation AMBA-Association of MBAs, UK. The education programs comprise of two-year full-time PGPM, PGP-HR, PGP-IM, 15-month Executive PGDBM, three-year Executive Management Program, Doctoral level FPM I EFPM, Post Graduate Program in Energy Management, and PG Diploma in Public Policy and Management. In addition to its academic programs, MDI has been a pioneer as well as a market leader in the area of continuing education in management. With over 45 years in this field, MDI conducts nearly 200 weeks of intensive short-term training programs each year, aimed at executives and managers from industry. Over 3000 managers participate in these programs each year. These include open programs, as well as customized organization specific training modules. The approach integrates latest knowledge with best practices through integrated business school activities enabling organizations in pursuit of excellence.

MDI offers consulting services in the different functional areas of management. The driving force at MDI is a dedicated team of distinguished faculty who has extensive experience and expertise in diverse fields. Over the years, there has been distinctive shift in emphasis from helping design and implement policies, systems and processes in functional domains to cross-functional domains. The institute is recognized by the industry (public and private), Central and State governments, and NGOs and is known for providing quality services to its clients. MDI always strives to provide high quality, cost-effective and timely services to the clients. It has remained contemporary through its primary focus on research, adapting to change and developing innovative strategies to facilitate the process of change in the dynamic business environment. The institute’s clients say that it has been able to add value to them by bringing in a strong cross-functional emphasis in their approach to carry out business.

As part of its strong research focus, MDI supports the following research initiatives:

- Centre for Supply Chain Management
- Centre for Excellence in Information Management
- Centre for Entrepreneurship
- Centre for Transformational Leadership
- Centre for Corporate Governance
- Centre for Responsible Business
- Centre for Positive Scholarship

MDI maintains high level of academic excellence in management. It has over 80 full-time faculties who have several years of experience having worked at senior positions in the industry. The faculty is thus able to deliver a healthy mix of practical insights and academic rigor in the classroom. MDI also has strong links with leading international B-schools. This aids in delivering a globalized management curriculum. As part of the global initiatives, student and faculty exchanges go on regularly. Joint research projects are also undertaken. Above all, MDI has a well developed state-of-the-art infrastructure, which includes a library with a collection of over 60,000 volumes, and online access to international journals, a computer center with over 500 PCs, air conditioned lecture halls and syndicate rooms, besides a host of other recreational facilities.

**MDI’s International Partners**

MDI has active linkages with McGill University Canada, University of Waterloo, Waterloo, School of Public Policy, George Mason University USA, University of Connecticut, USA, Cambridge College, Massachusetts. USA. DeGroote School of Business, McMaster University Canada, Robert H. Smith School of Business, University of Maryland USA, Marquette University Wisconsin. USA, Bentley College USA, The University of North Carolina, Kenan-Flagler Business School, Chapel Hill USA, North Carolina State University Raleigh, North Carolina USA, ESCP-EAP, France, EOHEC Business School, France, The Institute d’Etudes Politiques de Paris (Sciences-Po), LAEAux-en Provence, France, Total Professors Association (TPA), Paris, Grenoble Ecole de Management, Grenoble, Bergische Universitat Wuppertal, Wuppertal, HHL Leipzig Graduate School of Management, Leipzig, International University in Germany, Bruchsal. European Business School - Oestrich-Winkel, Frankfurt School of Finance & Management, Frankfurt, Vienna University of Eco. & Business Administration, Austria, Copenhagen Business School, Denmark, Aarhus School of Business, Denmark, Solvak Business School, Brussels, The Faculty of Applied Economics, University of Antwerp, Belgium, BI Norwegian School of Management, Norway, Univerversa Carlos Cattaneo. (LIRC), Italy, Bocconi University Milano, Warsaw School of Economics, Poland, Graduate School of Business Economics, Higher School of International Commerce and Finance (WShIFM), Warsaw, Middlesex University London, UK, School of Management, Asian Institute of Technology, Thailand, Queensland University of Technology Brisbane, University of the Free State. Bloemfontein, University of Otago, Dunedin, Leon Recanati Graduate School of Business Administration, LAHAV Executive Education Centre, Faculty of Management, Tel-Aviv University, Tel-Aviv, Israel, University of Tampere, Finland, Lahore University of Management Sciences (WMS), Pakistan, RSM Erasmus University Rotterdam, Athens University of Economics and Business, Athens, Moscow International Higher Business School “MIRBIS”, Moscow, Huazhong University of Science and Technology (RUST), School of Management, China. These linkages operate in the domains of exchange of students, faculty and knowledge. Some executive education programs are co-designed and delivered along with our partners. MDI now has developed a new niche market for foreign institutions in conducting international executive development programs at MDI campus.