

Environmental Performance of Manufacturing Systems: Modelling and Application

Overview

Achieving sustainability is the major issue of today's business including manufacturing industry. Sustainability means a right balance of economic, environmental and social pillars of business. Although manufacturing sector substantially contributes to Indian GDP their collectively negative contributions to environment is also phenomenon. There are instances of less engagement of Indian manufacturing sectors to address the environmental impact of their projects and products due to cut throat competition in market place. Therefore, for the growth of manufacturing sector along with product quality, environmental performance of entire supply chain needs to be enhanced so as to develop most appropriate balance of economic, environmental and social pillars.

The main aim of this GIAN programme is to expose the participants on environmental performance measurement of manufacturing supply chain and suggest improvement measures. The participants are likely to away knowledge on supply chain characteristics of Indian manufacturing sector, issues and challenges along with criteria for environmental performance measurement. They will also develop knowledge on performance measurement models and apply these to case study organisations using real life data from across the world.

The programme will be attended by the researchers and industry practitioners. Through active involvement of the practitioners this workshop will reveal state of art practices and performance of manufacturing supply chain in India, room for improvements, and actions for the participants (as an individual and a group) to make Indian manufacturing supply chain more competitive locally and globally. Academics with proven knowledge, industrial experience, and demonstrable ability in teaching, consultancy, research, and training in the field of sustainable production management and related areas will handle sessions and case-based real-life problems solving exercises in the training programme. Lectures will be delivered by internationally-renowned faculties from India and abroad.

Date of Examination: March 29, 2019

Module	Environmental Performance of Manufacturing Systems: Modelling and Application: March 25 to 29, 2019 Number of participants for the course will be limited to fifty.
Who Should Attend	<ul style="list-style-type: none">▪ Undergraduate, Postgraduate and PhD students in Industrial Engineering, Engineering and Business Management and allied disciplines▪ Middle level and senior managers in manufacturing and service organizations requiring an in-depth understanding of POM practices and implementation principles for enhancing functional and operational performance and organizational competitiveness▪ Executives and administrative officials from Government/Public sectors and research organizations
Fees	The participation fee for taking the course is as follows: Participants from abroad : US \$300 Industry/ Research Organizations: INR 18,000 Academic Institutions: INR 6,000 The participation fee includes instructional lecture materials, computer use for tutorials and assignments use charges and 24-hr internet facility. The participants will be provided with accommodation on payment basis.

The Faculty

Professor Prasanta Kumar Dey is a professor of Operations Management at Aston Business School. He won Vice Chancellor award for research excellence in 2012. Prior to joining Aston University in 2004, he worked for five years in the University of the West Indies in Barbados as a Director of graduate project management program and 14 years in Indian Oil Corporation Limited, India as a project executive in various capacities. He specializes in supply chain management and project management.



Professor Pradip Kumar Ray is a professor at the Department of Industrial and Systems Engineering of Indian Institute of Technology (IIT), Kharagpur, India. His research interests include Productivity Management/Modeling and Analysis of Manufacturing and Service Organizations, Quality Design and Control, Total Quality Management, Process Optimization, Ergonomics/Human Factors Engineering, Safety Engineering, Modelling and Analysis of Healthcare Management Systems, and Industrial/Production System Sustainability.



Professor Biswajit Mahanty is a professor at the Department of Industrial and Systems Engineering of Indian Institute of Technology, Kharagpur, India. His research interests are in Operations Research, System Dynamics, Project Management, and Information Systems. He has guided research work in the areas of Supply Chain Management, Quality Systems, Software Project Management, and in various other Operations Management areas.



Course Coordinators

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