## Sustainable Production Management: Concepts and Practices

## Overview

Globalization of economies and emergence of information technology/information systems (IT/IS) have a tremendous paradigm shift in strategic and operational directions in modern manufacturing and service organizations. Along with many global challenges, environmental considerations and sustainability has been one major concern to today's production managers. Sustainability is one of the toughest challenge the operation managers are facing now and this will remain the number one challenge in the future (Gunasekaran and Ngai, 2012; Ageron, Gunasekaran and Spalanzani, 2012). Operation managers are tasked with creating long-term customer and employee strategies that acknowledge the organization's impact on the social, cultural and economic environment. Many companies have adopted "green" or environmentally friendly strategies as part of a focus on sustainability. These strategies seek to eliminate waste and turn the company's attention to minimizing negative effects on the environment that reduce the well-being of consumers. Developing business policies that encourage transparency are also part of the sustainability push.

This GIAN programme examines the meanings of sustainability in production; integrated models of sustainability (economic, environmental, social and cultural); the growth of the sustainability movement in consumers; ethics and the phases of business response to sustainability; the forces shaping sustainability; fundamental legal components of sustainability; business and enterprise opportunities to benefit from sustainable practices; international and cross-cultural perspectives on sustainability; and measuring sustainability (metrics and management).

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: May 24, 2019

Module	Environmental Performance of Manufacturing Systems: Modelling and Application: May 13 -
	24, 2019
	Number of participants for the course will be limited to fifty.
Who Should Attend	<ul> <li>Undergraduate, Postgraduate and PhD students in Industrial Engineering, Engineering and Business Management and allied disciplines</li> <li>Middle level and senior managers in manufacturing and service organizations requiring an indepth understanding of POM practices and implementation principles for enhancing functional and operational performance and organizational competitiveness</li> <li>Executives and administrative officials from Government/Public sectors and research organizations</li> </ul>
Fees	The participation fee for taking the course is as follows:  Participants from abroad: US \$500 Industry/ Research Organizations: INR 30,000 Academic Institutions: INR 10,000 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 Purnendu Mandal** is a professor in Management and Management Information Systems at the College of Business, Lamar University, Texas, USA. His research interests include sustainable enterprise, supply chain,

operations management, information systems, strategic modeling and simulation. He held positions of Head of Department, Associate Dean, Conference Chair, and Corporate Chairman. He founded a company (in USA) in the area of healthcare education; founded an executive training and consulting company (in Singapore). He worked in USA, Australia, UK, India, Hong Kong and Singapore; have extensive professional network all over the world.



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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