

Quantitative models for Supply Chain Management

Overview

The success of a company in today's competitive global market depends on a good supply chain. Advances in Internet Technologies and Electronic Commerce (ITEC) have contributed to growing importance of supply chain. Traditionally supply chain studies have focused on improving the operational efficiency through cost reduction. In recent years, supply chains have become increasingly complex and more prone to risks/disruptions resulting in negative consequences on cost, customer service and reputation. The professionals and the researchers in supply chain require decision making tools to simplify the supply chain complexity and to improve the resilience. Hence this course will provide a detailed overview of applications of quantitative models for Supply Chain Management (SCM).

Course Contents

- Modeling issues in supply chain management
- Supply chain performance metrics
- Analytical models for supply chain design
- Supply chain analytics
- Aggregate planning, inventory and scheduling in supply chain
- e-retailing and supply chain
- Meta heuristics for supply chain optimization
- Simulation modeling for supply chain
- Sustainable supply chain
- Models for managing supply chain complexity
- Models for supply chain risk management (SCRM)
- Research writing in supply chain

Course Dates	June 16, 2016 - June 25, 2016
Host institute	National Institute of Technology, Tiruchirappalli (NIT-Trichy)
No. of Credits	02
Maximum No. of Participants	50
You Should Attend If...	<ul style="list-style-type: none"> ○ You are Faculty member working in Engineering Colleges in Production, Industrial Engineering, Mechanical, Management and allied Departments. ○ You are from Training Organizations/R&D Organizations/Consultancy firms/Industries interested in the management and operations of supply chains. ○ You are students (BTech./MSc./MTech.) interested in doing higher studies in Industrial Engineering or Operations Research or Operations Management & Research Scholars pursuing research in supply chain management
Course Registration Fees	<ul style="list-style-type: none"> • Students/Research scholars: Rs.3000/- • Academic Institutions: Rs. 6000/- • Industry/ Research Organizations: Rs. 10000/- • Participants from abroad: US \$300 <p><i>The above fee is towards participation in the course, course material/handout, hands on training/tutorials and other resources utilized in NITT. Working lunch and refreshments are included in the fees.</i></p>
How to Register	<p>Stage 1: Web (Portal) Registration: Visit GIAN Website at the link: http://www.gian.iitkgp.ac.in/GREGN/index and create login User ID and Password. Fill up blank registration form and do web registration by paying Rs. 500/- online through Net Banking/ Debit/ Credit card. This provides the user with life time registration to enroll in any no. of GIAN courses offered.</p> <p>Stage 2: Course Registration (Through GIAN Portal): Log in to the GIAN portal with the user ID and Password created. Click on "Course Registration" option given at the top of the registration form. Select the Course titled "Quantitative models for Supply Chain Management" from the list and click on "Save" option. Confirm your registration by Clicking on "Confirm Course".</p> <p><i>Only Selected candidates will be intimated through E-mail by Course Co-ordinator. They have to remit the necessary course fee in the form of DD drawn in favour of 'The Director, NIT, Tiruchirappalli-15' payable at SBI-NIT-Tiruchirappalli.</i></p>
Last date for Course Registration	June 10, 2016
Accommodation	The participants may be provided with hostel accommodation, depending on the availability and on payment basis. Request for hostel accommodation may be submitted through an e-mail to the Course Co-ordinator.

Course Faculties



Dr. Mark Goh is at present the Director (Industry Research) of The Logistics Institute-Asia Pacific, National University of Singapore (**NUS, Singapore**). Dr. Mark Goh has written approximately 220 articles and has completed nearly 20 research projects. He is a reviewer in International journals like

European Journal of Operational Research (EJOR), International Journal of Operations and Production Management (IJOPM), Asia Pacific Journal of Management (APJM), Journal of Asian Business, International Journal of Production Economics (IJPE), Computers and Operations Research (COR), International Journal of Quality and Reliability Management (IJQRM), International Journal of Supply Chain Management, Journal of Purchasing and Supply Management, Transportation Science, Logistics Information Management, ITORS, OMEGA, IIE Trans, Journal of FMS, International Journal of Technology Management, Computers in Industrial Engineering, Transport Geography, POM, IEEE Trans EnggMgmt, DSS, IntJnl of Supply Management, Trans Res (C), Euro Jnl of Industrial Engineering, Mathematics and Comp Modelling, Intl Jnl of Logistics Research and Applications and in Regional journals like Asia-Pacific Journal of Operational Research, Asian Case Research Journal, Asian Academy of Management Conference, IES Journal A: Civil and Structural Engineering, etc.



Dr. Usha Mohan is at present an Associate Professor in the Department of Management Studies, **IIT Madras**. She has published 08 international journal articles and completed four

research projects. She is the Associate Editor of SADHANA, Journal of Indian Academy of Sciences and a reviewer for Omega, OR letters, Journal of Manufacturing Technology, Sadhana, COR.



Dr. S. Prasanna Venkatesan is an Assistant Professor in the Department of Production Engineering, National Institute of Technology, Tiruchirappalli, India. His areas of interests are supply chain risk management, manufacturing system simulation, e-waste management

and multi-objective evolutionary algorithm. He has published around 20 research articles and currently carrying out a project on e-waste management. He is a reviewer for IJPR and IJENM.

Course Coordinator

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