

BSc in Supply Chain Management

NFQ Level 8

Transforming ambitious professionals into management leaders with recognised university accreditation

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PROGRAMME PROFILE:

This course will develop participants' Supply Chain Management skills including practical application of the SCOR™ Framework concepts, enabling participating companies gain competitive advantage through the application of the principles to drive improvement with measurable results. A company-based project will form a key element of the programme, ensuring the integration of the various concepts in the participants' workplace. This programme's content aligns with the Supply Chain Council's Supply Chain Operations Reference model (SCOR). The programme combines strong human factor, cause-effect modelling, and process improvement orientations to leverage innovative opportunities.

LEARNING APPROACH:

This BSc programme is a two-year programme delivered via a combination of distance and online resources, on-campus tutorials and practical sessions, and company-based projects

CANDIDATE PROFILE:

Specifically targeted at those currently employed, or seeking employment, in a variety of technology rich industries, such as Pharmaceutical, Medical Devices, Biotechnology and Manufacturing, who require a degree qualification and are seeking the same for professional advancement. Are you a middle manager seeking to reinforce experiential learning with an academic qualification in supply chain management? Or a graduate with three or more years experience wishing to develop a greater understanding of the supply chain management process and learn appropriate techniques?

MORE INFORMATION

For Further details please Email
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PROGRAMME OUTLINE

SEMESTER 1

PT4057 ADVANCED MODELS & FRAMEWORKS FOR SCM:

This module is designed to develop an understanding of the importance of Supply Chain Management in obtaining a competitive advantage and achieving best practice SCM. The basic concepts in managing the complete flow of materials in a supply chain from suppliers to customers are covered.

PT3011 PLAN WITH SUPPLY CHAINS:

Topics covered in this module are Demand and Order Management the role of demand management in supply chain planning, forecasting and fundamentals of sales and operational planning. Capacity Planning & Utilisation, Production & Inventory Management, Distribution Requirements Planning and Planning Systems.

PT3021 MAKE WITHIN SUPPLY CHAINS:

Introduction To Operations Engineering, Operations Strategy, Quality Planning & Control, Product And Service Design, Process Technology, Facility Layout And Line Balancing, Human Resources, X-Factor And Operations Curves, Forecasting, Capacity Planning And Aggregate Production Planning, Inventory Management, Scheduling, Just In Time (JIT) and Lean Systems, Project Planning And Control, (ERP)

PM3081 ORGANISATIONAL BEHAVIOUR 1:

This module covers the areas of Perception: role stereotyping; Motivation: theories of motivation, relationship between motivation, performance and reward; Job satisfaction: job design, job rotation, job enlargement, job enrichment; Attitudes: formation of attitudes, attitudes and behaviour; Group behaviour: group norms, differences between groups and teams, Belbin Team Type Roles

SEMESTER 2

PT3051 SOURCE WITHIN SUPPLY CHAINS:

Context and evolution of industrial purchasing, integration, organisation, category & sourcing strategies, Supplier evaluation & selection concepts and tools. Economic costing. Negotiation, contract management, purchasing law, principles of law in dealing with dynamic working relationships in supply make-deliver/return, ethics in purchasing, performance measurement and evaluation

PT3061 DELIVER & RETURN WITHIN SUPPLY CHAINS:

This module introduces Logistics International Contracts, Customs, Regulations, Incoterms, Managing transaction risk, payments, exchange rate exposure, Regulation and Green Logistics Reverse logistics and product lifecycle management, return of goods at end of life, Logistics and the environment

AC3012 BUSINESS INTELLIGENCE & DECISION MAKING:

This module aims to provide learners with an appreciation of financial and management accounting. Analysis & Interpretation of Financial Statements:- Trading, profit and loss accounts and balance sheets; cash flow statements in line with FRSI guidelines; application of ratio analysis to the understanding and interpretation of financial statements;

AU3023 STATISTICS:

Graphical and numerical summaries of data. Basic counting. Notions of probability - sample spaces, events, combination of events, conditional probability and independence, Bayes Theorem. Discrete random variables, their probability distributions and moments. Continuous random variables with emphasis on normally distributed variables. Sampling distributions of means and proportions. The Central Limit Theorem.

SEMESTER 3

PT3041 LEAN SIGMA IMPROVEMENT METHODOLOGIES:

Six Sigma Principles of Quality Management, Sigma Improvement Methodologies, Principles of Six Sigma, DMAIC Process, Define, Measurement, Analysis, Improve, Control, Concept and Design, Implementation attitudes and behaviour; Group behaviour: group norms, differences.

PT4003 SUPPLY CHAIN DYNAMICS GAME:

The Fresh Connection (TFC) business simulation game is focused on a lossmaking producer of fresh fruit juices which needs to be returned to profitability. The game is configurable, commencing with lowest complexity, and is played by students in a fun, competitive, risk-free, yet realistic environment in which a direct relationship between cause and consequence can be experienced and is an excellent simulation of real corporate life

PROGRAMME OUTLINE

SEMESTER 4

MG3602 MANAGEMENT OF CHANGE:

The nature and importance of change (both minor and paradigm changes), factors forcing change, resistance to change, planned change interventions, models of organisational change to include Lewin and more recent approaches. Key issues associated with successful change programmes. The role of organisational culture in the management of change process.

MG4917 SUPPLY CHAIN MANAGEMENT & CRM:

CRM Logistics and Supply Chain Management. Factors that influence supply chain network structure, business processes, and SC management components. Customer service/satisfaction. The role of warehousing in a just-in-time (JIT) environment. The four major perspectives of CRM. Generic models of CRM (IDIC, QCI, Value Chain, Payne's Five Process Model, Gartner's Competency Model).

PT3081 INTEGRATION DEVELOPMENT TO

PRODUCTION: New Product Development (NPD) Process Models, New Product Planning, The Product Development Team, The Role of Supplier and Buyer in NPD, Rapid Prototyping and Product Data Technologies, Identification of Customer Needs, Product Specification, Concept Generation/Selection/Testing,

PT4067 SIMULATION MODELLING & ANALYSIS:

Intro.to simulation modelling. Systems (manufacturing, logistic and services systems) design assignments. Discrete event & continuous simulation. System dynamics. Programming skills to apply simulation to manufacturing, logistic and services systems using a generic simulation package. Statistical aspects of simulation.

SEMESTER 5

MG4181 SUPPLY CHAIN RISK ASSESSMENT & FORECASTING:

Supply Chain & Process Mapping, Geographic Risk Mapping & Country Risk Exposure, Scenario Planning, Risk-Monitoring Dashboard, Root Cause Analysis, International Supply Chains, Forces toward Globalization, The efficient supply chain and the risky supply chain, Anatomy of a supply chain disruption Supply Chain Risk quantification and business continuity planning, Manufacturing example, Healthcare example

MG3652 STRATEGIC MANAGEMENT:

This module introduces Strategic management process; strategic management and strategic change; vision; mission and objectives; analysing the business environment; PEST and SWOT analysis; forecasting the environment; scenario planning; strategy creation; changing strategies; strategic thinking and strategic planning.

AC4906 CORPORATE SOCIAL RESPONSIBILITY:

introduction to CSR; defining CSR; the social, political and economic context; stake holders Vs shareholders; issues concerning sustainability; ethics; CSR corporate and managerial behaviour; performance evaluation and performance reporting; globalisation and CSR; stakeholder relationship management; business planning.

PT3071 INFORMATION SYSTEMS & DECISION SUPPORT:

Role of Information Systems in Supply Chain. Graphical User Interface(GUI) concepts. Introduction to Software Development and specification methods. Introduction to Database Systems and Models. Introduction to Access. Unified Modelling Language (UML)

SEMESTER 6

PT3091 SUPPLY CHAIN PROJECT 1:

In company/ self-directed project