

# AMITY GLOBAL INSTITUTE

## MODULE SYLLABUS

Course	Master of Science in Supply Chain Management and Global Logistics (University of London)
Module Title	Business Forecasting and Data Analytics (Optional)
Module Syllabus No. (if any)	SCM110
Syllabus / Content / Learning Outcomes	<p>You are introduced to the principles used in forecasting and decision making and the practical tools to make use of available data. You'll acquire skills in model building and using appropriate software, as well as understanding the use of judgement, when selecting data and variables to model and evaluate results.</p> <p>Every supply chain manager makes plans or decisions that depend on how data are analysed, summarised and translated into forecasts. This module introduces the basic principles in any forecasting and decision making exercise, which are aimed at informing the process of planning, capacity and quality management.</p> <p>This module will provide you with tools and insights on how to make use of available data in daily operations, generate and evaluate forecasts and make informed decisions.</p>
No. of Teaching Hours	<p>Contact Hours – Lectures, Seminars &amp; online activity (22 x 3) = 66</p> <p>Independent Preparation, pre-reading and analysis = 84</p> <p>TOTAL = 150</p>
Teaching Methods	Lectures, tutorials, case-studies analysis, research journals and group discussion.
Assessment Methods and Weightages	Module assessment will be based on one two-hour unseen written examination (70%) and a short essay-type report on a forecasting exercise with real data (30%).
Skills for Maximising Learning Outcomes	Reading and research
Dates of Examinations, Major Assessments and Assignments	<p>Please refer to <a href="http://www.london.ac.uk">www.london.ac.uk</a> exam tables</p> <p>June, August/September, December and February/March</p>
Topics covered	<ul style="list-style-type: none"> <li>• Summarising, describing and making inferences from data</li> <li>• Forecasting: why? What and why in supply chain management?</li> <li>• Basic Forecasting Tools</li> <li>• Forecasting trends: simple linear regression</li> <li>• Forecasting trends: exponential smoothing</li> <li>• Seasonal Time Series: forecasting and decomposition</li> <li>• Seasonal Time Series: exponential smoothing</li> <li>• Multiple Linear Regressions and Regression Models with Time Series Data</li> <li>• Predicting group membership</li> <li>• Expert Opinions, Judgment and Combining Forecasts</li> </ul>

Note: All Information provided to Amity will be kept strictly confidential except for those required under statutory requirements and by government authorities and relevant university partners and accreditation bodies as part of the regulatory or course requirements.