

## **Master of Supply Chain Management**

The maximum requirement to graduate from the Master of Supply Chain Management degree is twelve (12) subjects. However, if you have completed a bachelor's degree in a relevant area or a UOWD Graduate Certificate in Business, or you have extensive professional work experience in a related area alongside a bachelor degree, you may be able to complete the program in a total of ten (10) subjects in line with UOWD's policy on Credit for Prior Learning decided in consultation with UOWD's Faculty of Business office prior to the beginning of the program.

Students must study all 12 subjects in order to secure MCIPS certification. No subject exemptions are permitted.

### **Common Business Subjects**

## **Accounting and Financial Management**

This subject is a foundation subject and is intended for those who need to obtain some introductory understanding of the principles of accounting and financial management. No previous knowledge or experience is assumed. The subject will introduce you to the role that effective financial management makes within an organisation. The aim is to increase your proficiency in the use of the accounting data that you receive in your work environment, as well as making you aware of the basis on which key financial decisions are made. You will be introduced to the basic concepts of financial decision-making and the role of financial management in organisations. The concepts and techniques introduced are intended to assist you in the use and interpretation of accounting data and allow you to become better acquainted with the planning and controlling of resources you have at your disposal.

## **Operations Management**

The subject highlights the growing importance of operations management to all types of businesses/industries. Operations management is the science and art of ensuring that goods and services are created and delivered to customers' expectations in full and on time. Additionally, it provides early insights into the content of the Master of Science reviewing areas such as Supply Chain Management, Quality Management and Project Management. This subject enhances students' fundamental knowledge and learning skills required to engage within Postgraduate learning successfully. The subject also develops students' reflective skills and ability to analyse, consolidate and synthesise complex information in problem solving and decision making.

## **Organisational Behaviour and Management**

This subject provides a comprehensive overview of management process and organisational behaviour for students to understand the foundations of management theory and the nature of human behaviour operating within organisations. The subject covers the history and

contemporary analysis of management theory and concepts relating to: individual, group and organisational processes within business contexts. This subject enhances student's fundamental knowledge and learning skills in problem solving and decision making required to successfully engage with and complete further subjects within their postgraduate management degree. This subject also develops students' communication and teamwork skills and application of knowledge to analyse, consolidate and synthesise complex information.

## **Principles of Marketing Management**

The subject examines the concepts underpinning the marketing process and theories relevant to the study and practice of modern marketing science. Key concepts covered include the creation and delivery of customer value, customer retention and return on marketing investment, marketing's role in an organisation as defined by the overall strategic plan, and its integration with other functional disciplines within the organisation, elements of marketing plan, competitor analysis and strategies, marketing environment, marketing research, consumer and business buying behaviour, strategic nature of segmenting markets, targeting, and positioning brands, marketing mix decisions, and marketing ethics and social responsibility. The subject provides a foundation for the development of effective market-oriented managerial thinking, communication and team-work skills.

### **Core Supply Chain Management Subjects**

## **Supply Chain Management**

Increasing marketplace competitiveness driven by higher productivity levels, product variety proliferation, oversupply, demanding customers and globalisation has ushered in the era of shape-up or get run over. End-to-end Supply Chain Management holds the promise of effective response to such a business environment, but only if it is understood and actually applied. This subject therefore places particular emphasis on the interfaces between the 'chain' or 'network' of enterprises engaged in moving products, services, and information, from suppliers through intermediaries to end users/consumers. The early part of the subject focuses on understanding the concepts and principles of supply chain management. Specific supply chain management topics are then reviewed giving emphasis on topics such as customer fulfilment strategies, process thinking, physical flow management, global supply chain design, cost management, alliances and outsourcing and critical supply chain measures. Channel relationships between suppliers, manufacturers, and distributors is also reviewed, particularly as leading organisations are now openly embracing more collaborative behaviour for mutual benefit. Transformational change in supply chains is studied from two perspectives, i.e., re- alignment inside the supply chain itself; and advanced forms of 'outsourcing'. Finally, people management and the building of employee capabilities are considered as well as future supply chain innovation requirements.

## **Project Management**

This subject aims to develop knowledge of various types of projects in current business organisations. The students will learn the different stages involved in the conception and

implementation of projects, writing project proposals, carry out feasibility studies, organising and managing project teams, understand the role of project management in business organisations, project planning and scheduling, project finance, effective information and stakeholder management, contractual arrangements and project supervision.

## **Total Quality Management**

The subject addresses quality management from a systems perspective. Students will discover the philosophy of modern quality management systems deployed and embraced by companies and their wider supply chain. Additionally students get to explore tools and techniques such as root cause analysis, process mapping and statistical process control to drive quality management into businesses. The course is structured around the ISO9000 Quality Management framework in order to assist student to apply quality management principles in their future careers.

## **Strategic Procurement Management**

Procurement is increasingly being recognised as a fundamental enabler of business strategy and a preferred method for achieving sustainable cost reduction. Controlling approximately 70-80% of all company expenditure, Procurement functions are in a critical position to influence commercial and financial success. This subject looks at the expanded responsibility of procurement and its integration with long-term strategic corporate planning. Topics include the procurement of goods and services, strategic sourcing, supplier relationship management, inventory management, total cost of ownership, negotiation planning, outsourcing and globalisation, supplier selection and evaluation, risk mitigation, and e-procurement. Emerging procurement issues such as supplier innovation, sustainable procurement and ethical supply chains are examined.

### **Advanced Supply Chain Management Subjects**

## **Supply Chain Analytics**

Today's business world is awash in data and increasingly data is replacing hard assets as the fulcrum for decision making. Data analysis is required to be timely and providing forward-looking guidance that yields better, more-informed decisions. Relying on traditional methods of managing the supply chain is becoming increasingly difficult, with a mix of global operating systems, pricing pressures and ever increasing customer expectations. This subject equips students with analytical tools and techniques to support forward-looking supply chain decision making. Data analytics is the science of examining raw data to help draw conclusions about information. Students will be able to verify and enhance existing operating models using quantitative techniques. The subject will cover decision analytics for supply chain problems such as planning and resource allocation, transportation, rostering and scheduling, trend analysis and forecasting, trade-off analysis, predictive modelling and systems optimisation.

## **Advanced Supply Chain Management**

The subject extends the study of Supply Chain Management from the introductory study covered in OPS908 Supply Chain Management. Students will investigate the importance of strategic alignment from an organisational strategy to marketing and finally, supply chain strategy. The concept of value streams will be explored and students will analyse, discuss and design highly competitive value streams for various contexts. Finally, the impact of latest innovation such as 3D printing and big data on value stream design will be explored.

## **Logistics Systems**

Logistics Systems is an advanced course in logistics and supply chain management. It involves design and management of supply chain systems. It prepares students for logistics management positions in manufacturing, transportation and distribution firms. The application of analytical techniques, simulations and computer software to selected aspects of distribution management is explored in the course. Attention will be given to areas of network planning, inventory control, facility location, vehicle routing and scheduling of logistics systems. Mathematical models in these areas will be discussed in terms of their ability to represent the problem and usefulness to the managers. Cases will be used to demonstrate the nature of decision making problems managers' face in logistics and supply chain management in contemporary business and class discussion will take place about the repercussions of alternative decisions.

### **Industry-based practicum**

## **Industry Project on Supply Chain 4.0 & Current and Future Logistics Management**

Business Research Project