

## **Module Synopsis – Postgraduate Diploma in Engineering Management**

### **Operations Management**

Develop student's ability to examine complex businesses and organisations to determine how the operations and its supply chain produce competitive advantage and improve performance to customers. By using a range of real life scenarios using both qualitative and quantitative data in different media students learn to first comprehend, then apply and analyse concepts and principles from the field of operations and supply chain management. This module also introduces learners to a number of business structures, cultures and the political, social, economic, technological, legal and ethical considerations affecting business.

Assessment: 100% coursework

### **Technopreneurship**

This module provides an overview of technopreneurial activity, including evaluation and planning of a new business, financing, team building, product development, marketing and operational management issues, intellectual property protection, alternative models for revenue and growth, and exit strategies.

Assessment: Coursework 100%

### **Accounting and Finance for Decision Making**

To provide students with sound technical knowledge for understanding and preparing financial accounts. Foundation knowledge and understanding of the fundamental principles of accounting and finance will be taught. Students will also be introduced to simple financial budgeting/planning, cost allocation, time value of money, cash flow projection and other relevant concepts.

Assessment: Coursework 50%; Examination: 50%

### **Strategic Human Resources Management**

To develop a knowledge of the theories, concepts and strategies of HR Management. Students will understand the role of the human resource manager, the application of human resource management for specific organisational scenarios, and the legislative requirements related to the field.

Assessment: Coursework 50%; Examination - 50%

### **International Business Management**

This module is designed to enable students to demonstrate an understanding of the concept of international business management in a global marketplace and the major sectors of the international business environment, as well as international management challenges, opportunities and barriers. Students will develop an understanding of the social, cultural, economic and political frameworks that impact on business management in Asia/Pacific Rim countries, as well as an understanding of current issues, their timing and the causal affects they have on industry. Students will gain the skills to identify effects of globalisation on industry, and international management challenges, opportunities and barriers, as well as strategies to manage them. Students will also gain an understanding of the impact of political environments and international policies and agreements in international business.

Assessment: Coursework 100%

## **Project Management**

Students will understand the theories and processes of project management, the role the project manager, project team and champions play, and the range, scope and complexity of modern projects.

Assessment: Coursework 100%

## **Introduction to Research**

This aim of this module is to provide students with the skills to apply the management research process, from identifying problem areas to understand the planning and design of managerial research. Emphasis will be given to research in engineering management. Students will prepare to undertake an independent enquiry through individual self-directed project work. This module provides students with the skills and knowledge to design and plan a research project. Students will develop research objectives, formulate appropriate methodologies, and critique literature. Students will develop a research plan in order to explore their research ideas. They will also show an ability to communicate their ideas and plans in both oral and written forms.

Assessment: Coursework 100%

## **Applied Special Project**

The aim of this module is to facilitate an independent enquiry in a small scale substantial piece of individual self-directed research work. This module provides students with the opportunity to conduct a piece of research through individual and independent activity and to present their findings using visual aids and in written academic format that meets professional standards. Students will develop research objectives, formulate appropriate methodologies, and apply problem solving and analytical skills in a business context of their choice.

Assessment: Coursework 100%