

Summary Information

Module Code	6505ICBTBE
Formal Module Title	Engineering Management
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	10
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
International College of Business and Technology

Learning Methods

Learning Method Type	Hours
Lecture	30
Tutorial	9

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-PAR	PAR	January	12 Weeks

Aims and Outcomes

Aims	The Module aim is to master the application of theories, frameworks and concepts of management relevant to various industry/ engineering management problems and project management.
------	--

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critical understanding of management and business practices.
MLO2	2	Critical understanding of tools and systems used to control and manage finance within an operations environment.
MLO3	3	Ability to apply theoretical concepts to practical managerial situations.
MLO4	4	Ability to apply a range of financial tools that can be used to control cost and manage a business.

Module Content

Outline Syllabus	The module introduces business practices and topics related to engineering management. It covers relevant aspects of human resource management, operations, marketing, finance, personal development and project management. Health & safetyHow to develop appropriate systems and procedures in the workplace. More specifically, it covers risk assessment and risk mitigation at the same time discussing hazard spotting, safety management systems and strategies.Team workAdditional managerial topics are introduced which embrace team-working, appraisal systems and ethical behaviour. Team roles and team-problem solving techniques are presented, at the same time clarifying the use of enabling methods such as are reviewed and the use of qualitative versus quantitative approaches debated.Engineering ethicsStudents are encouraged to reflect on ethics in engineering and the ethical principles outlined in the codes and practices stipulated by professional bodies. Case studies underpin the concepts and cause the participants to question beliefs and behaviours.Business awarenessThe module examines the roles of other key functions providing wider business awareness. These functions include quality, marketing and finance. Commencing with quality, the total quality management (TQM) process and the concepts of quality and zero defects are discussed.Operational financeOperational finance topics are covered. These include product costing: direct, marginal, standard, profit and loss accounts (P & I), cash flow, break-even analysis, managing and controlling budgets.Project managementThe student is systematically taken through the full project life cycle including project planning, feasibility, evaluation and control. As part of this delivery, all of the relevant project management techniques are covered.
Module Overview	
Additional Information	This module is part of the Level 6 of the BEng(Hons) in Biomedical Engineering

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	Examination	70	2	MLO1, MLO2, MLO3
Portfolio	Coursework Assignment	30	0	MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Katie Evans	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
--------------	--------------------------	-----------