

Liverpool John Moores University

Title: MANAGEMENT PRINCIPLES FOR AUTOMOTIVE ENGINEERS
Status: Definitive
Code: **5502ICBTAE** (127058)
Version Start Date: 01-08-2021
Owning School/Faculty: Engineering
Teaching School/Faculty: ICBT, Colombo

Team	Leader
Alison Cotgrave	Y

Academic Level: FHEQ5
Credit Value: 15
Total Delivered Hours: 68
Total Learning Hours: 150
Private Study: 82

Delivery Options

Course typically offered: Semester 1 and Summer

Component	Contact Hours
Lecture	45
Off Site	6
Tutorial	15

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Coursework (1500 Words)	30	
Exam	AS2	Exam	70	2

Aims

This module aims to develop the knowledge and understanding of management and business practices related to automotive industry and to provide an appreciation of the wider engineering context and its underlying principles. The unit also aims to deliver key aspects of management in relation to projects and operations in engineering organizations. It also aims to develop the students' awareness of the

economic, social, and environmental context of engineering and their implications in automotive engineering.

Learning Outcomes

After completing the module the student should be able to:

- 1 Apply fundamental theories and concepts of management in engineering organisations.
- 2 Relate strategic management to automotive engineering domain through various approaches such as new product and process design and manufacture.
- 3 Apply project management context in automotive engineering applications and carry out project initiation, planning, execution and closing of projects.
- 4 Explain and apply fundamental theories and concepts from quality assurance and management in automotive manufacturing context and assess the impact of health and safety, industrial, labour and consumer laws.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Coursework	4		
Exam	1	2	3

Outline Syllabus

Introduction to management context and basics of strategic management in automotive design and manufacturing context

Project management, project initiation and feasibility, project planning, project execution and project closing related to none knowledge areas applied in automotive context

Basics of Operations management concepts; forecasting, lean concepts, supply chain, location planning etc.

Introduction to ISO 9001 standards and quality management principles

Health and safety aspects of manufacturing industry

Introduction to industrial relations and labour and consumer law

Continuous Professional Development

Learning Activities

Students will be supported in their learning, to achieve the above learning outcomes,

in the following ways:

By a series of lectures and tutorials and through participation for a group project.

Self-managed investigative study to analyse cases related to business and economics.

A recommended resource list - indicating key reading, internet support and physical learning assistance, is provided to help enable students to undertake self-directed study.

Notes

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