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Module Code: 1ACM0029

Title of Module

Full Title: Motorsport & Automotive Technology

Short Title: Msport Auto Tech

MODULE

1ACM0029 (A 05/6)

Motorsport & Automot...

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Version: 1

Credit Points: 15

Level / ECTS Level: 1

First Offered: 23/9/2002 00-00-00

6. Home Department:

AAD

7. Departments(s) contributing to teaching:

9. Module Aims:

* gain an understanding of the Automotive and Motorsport Industries and the supporting Manufacturing supplier structures.

* acquire an awareness of the technologies employed to design and build motor vehicles

10a. Learning Outcomes: Knowledge and Understanding:

* Have a knowledge and understanding of-

* historic and current growth of the Automotive and Motorsport Industries

* manufacturing - supplier structures that exist in the Automotive and Motorsport Industries.

* manufacturing - supplier relationships that exist in the Automotive and Motorsport Industries.

* differences between lean, agile and virtual manufacturing.

* motor vehicle hardware

* motorsport technology

* the basics of vehicle performance and analysis

10b. Learning Outcomes: Skills and Attributes:

* undertake both primary and secondary research to establish customer needs.

- * position and differentiate lean organisations from agile and virtual firms.
- * work in groups and divide tasks
- * examine a complete design and deduce how it delivers its functions
- * apply qualitative criteria to the performance of vehicle systems
- * appreciate the fundamental parameters of vehicle design

11. Module Content

11a Module Content:

History and growth of the Automotive and Motorsport Industries - Market share, products and competencies of the key players.

Supply chain structures in the Auto Industry, with particular focus on supplier structures and their relationships with manufacturers.

Vehicle systems and components. Powertrain, chassis, vehicle aerodynamics, basic parametric analysis of vehicle performance. Introduction to dynamometer testing.

11b. Further details on how the learning outcomes of the module will be achieved:

Lectures and tutorials will be used to develop the student's knowledge of the Automobile and Motorsport industries. Summative assessment will be by group work and group presentation.

Lectures, tutorials, workshop and laboratory sessions will allow students to develop analytical skills alongside practical skills. This juxtaposition of theory together with hands-on study of vehicles, systems and components is designed to develop a broad understanding of automotive and vehicle systems. Summative assessment will be by one dynamometer laboratory report and an analytical coursework on performance estimation.

12. Language of Delivery:

English

13. Language of Assessment:

English

14. Assessment Details (Academic):

Coursework: 100

Exam: 0

Other: 100% In Course assessment typically consisting of 5 assignments-

2 individual and 3 group

Assessment Notes:

15. Locations(s):

UH HATFIELD

16. Pre and Co-Requisite:

Pre-Requisite

Co-Req

Prohibited

17. Subject Board of Examiner/s:

AERO/CIVIL/MECH L1 COMMON

18. Comments

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