Definitive Module Document (DMD)

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Module Code:1ACM0026

Title of Module
Full Title: Aerospace Technology and Business
Short Title: Aero Tech & Bus

MODULE

1ACM0026 (A 05/6)

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Version: 1

Credit Points: 15

Level / ECTS Level: 1

First Offered: 1/9/2001 00-00-00

6. Home Department:
AAD

7. Departments(s) contributing to teaching:

9. Module Aims:

* acquire a basic understanding of the design & performance of an aircraft and its main components.

* appreciate the significance of aircraft operations

* acquire an understanding of the management and business practices relevant to an engineering product

* develop the responsibilities associated with working in and contributing to a team

10a. Learning Outcomes: Knowledge and Understanding:

* recognise the basic relationships between the design of an aircraft and its functional and performance aims.

* recognise the significance of aircraft operations

* identify the ethical and social issues of a business and its impact on a customer

* identify and translate customer needs into a design, through the application of management and business techniques

10b. Learning Outcomes: Skills and Attributes:

* investigate, collate and present technical information on aspects of aircraft design.

* apply and appraise appropriate mathematical techniques to a business

11. Module Content
11a Module Content:

Technology

The basic design of an aircraft to achieve its functional and performance aims.

Aircraft operations.

Business

Students on this course will work within a business team and will develop professional responsibilities as individuals and as team members. The course balances lectures with team work and gives the student an understanding of the ethical and social issues of a business and its impact on the customer. Management and business practices and techniques are introduced through the design and development of a product and supporting lectures.

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

The basic design of an aircraft to achieve its functional and performance aims.

Airframe, flight control systems, cockpit and undercarriage

Hydraulic, fuel, cabin air, electrical and weapons systems.

The selection of materials for aerospace applications.Aircraft operations covering flight plans and air traffic control.

The technology material contributes to coverage of the PPL ground school

Business

Identify alternative organisational forms, legal requirements to publish accounts and aspects of employment law.

Identify the ethical and social issues of a business and its impact on a customer

Customer values, ethics and social issues through case studies and videos

Identify and translate customer needs into a design, through the application of management and business techniques

Market research, questionnaire design, forecasting, company set up, product costing

Recognise the professional responsibilities of working within a team

Communication methods, appraise individual performance within a team

12. Language of Delivery:
English

13. Language of Assessment:
English

14. Assessment Details (Academic):
Coursework: 100

Exam: 0

Other: Typically, assessment will consist of-

- Phase test (15%)

- Group presentations (including peer assessment) (25%)

- Study skills assignment (10%)

- Business group report (50%)

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