UNIVERSITY OF PLYMOUTH MODULE RECORD

Module Code: MATS 320	Credits: 20	Level : 3

Module Title : Composites Engineering

Pre-Requisites :

Co - Requisites : MATS 324 Composites Design and Manufacture, MFRG 310 Quality Management II

If Linked, Module linked to :

Short Module Descriptor:
This module integrates the learning from the parallel Composites Design and Manufacture module in a practical assignment to produce a prototype composite component.
The parallel lecture course (MATS 324) moves from basics to more advanced topics and broader philosophical considerations.
The modules MATS 320, MATS 324, and MFRG 310 are the specific components of the Mechanical Engineering with Composites pathway.

Elements of Assessment:
COURSEWORK 100% EXAMINATION % EoM TEST %

Module Aims :
To integrate the learning from the Composites Design and Manufacture module.
and the Quality Management module.
To produce a prototype composite component.
To extend the theoretical basis to more advanced topics and broader philosophical considerations.

Skills Elements :
Practise of the full design cycle from design through manufacture to testing and, where appropriate, analysis of failure modes and effects.
Written communication, teamwork, numeracy, IT, independent learning, practical work and professional skills.

Objectives / Learning Outcomes: Students who have successfully completed this module should be able to:
Integrate the learning from the Composites Design and Composites Manufacture modules.
Produce a prototype composite component.
Extend the theoretical basis to more advanced topics and broader philosophical considerations.

Indicative Syllabus Content :

Coursework
A prototype composite component should be designed, manufactured and tested in a manner appropriate to the application.

Please complete the information below

Faculty: Technology	Dept: SoE	Partner Institution: N/A
Module Leader: John Summerscales	Subject Group: B5	Term: Spring

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VALIDATION- DATE OF APPROVAL: DATE OF IMPLEMENTATION :
DATES(S) OF APPROVED CHANGES:

ASC:	FEEBAND :	RESOURCE UNITS :