

UNIVERSITY OF PLYMOUTH MODULE RECORD			
<b>MODULE CODE:</b> DSGN143	<b>CREDITS:</b> 20	<b>LEVEL:</b> 1	
<b>MODULE TITLE:</b> Integrated System Design			
<b>PRE-REQUISITE(S):</b> None			
<b>CO-REQUISITE(S):</b> None			
<b>COMPENSATABLE WITHIN THIS PROGRAMME:</b> Yes/ <del>No</del> (please indicate)			
<b>SHORT MODULE DESCRIPTOR (Maximum 4 lines, 12 pt Ariel)</b> This module helps students foster a technology-based, innovative and creative design identity. This is achieved through development of critical skills coupled with professional, multi-disciplinary teamwork. A practical focus is provided by a range of multi-faceted group design projects based upon open-ended, real-world problems.			
<b>ELEMENTS OF ASSESSMENT:</b> <u>COURSEWORK</u> 100% <u>EXAMINATION</u> 0% <u>PRACTICE</u> 0%**			
Give Subject Assessment Panel Group to which module should be linked - <b>DMM</b>			
Minimum pass mark for professional body accreditation ... <b>50%</b> .			
<b>MODULE AIMS:</b> To introduce the philosophy of engineering design and to demonstrate the commonality in design approaches across different engineering disciplines.			
<b>ASSESSED LEARNING OUTCOMES:</b> At the end of a module the learner will be expected to be able to: 1. Apply brain storming skills to engineering design. 2. Apply design techniques to a range of engineering problems. 3. Work effectively in teams. 4. Discuss causes of engineering failure. 5. Use presentation media effectively to communicate ideas.			
<b>INDICATIVE SYLLABUS CONTENT:</b> The multi-faceted nature of design. Formulating a design envelope – requirements, constraints, criteria, iterative brain-storming. The interaction between design, materials, processing/manufacture and service requirements. Fostering innovation – brainstorming, looking for elegance, lessons from failures, looking for new twists to old ideas (techoptimisers). The human dimension to design – ‘heart of darkness’ syndrome, environmental impact, ergonomics, behaviour of teams. Group design projects.			
<b>APPROVAL:</b> DATE OF APPROVAL: 16/11/2005 DATE OF IMPLEMENTATION: 01/09/2006 DATE(S) OF APPROVED CHANGE: XX/XX/XX			
<b>FACULTY:</b> Technology	<b>SCHOOL:</b> SOE	<b>PARTNER INSTITUTION:</b>	<b>(For FHSW) NAME OF SITE:</b>
<b>MODULE LEADER:</b> Wayne Hall		<b>Term* AY</b>	

\* Please designate modules as :

T1 = Term/Period 1, T2 = Term/Period2,  
AY = All Year

T1, T2

T1/T2 = T1 or T2

T1 & T2 = runs twice per year

\*\* For professional programmes only with  
Faculty of Health and Social Work.