

102-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	複合材料導論	Serial No. / ID	2027 / MAV2021
Dept.	機械與自動化工程學系	School System / Class	四技部2年1班
Lecturer	陳國祥	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(四)678 / H439	Language	Chinese

Introduction
<p>The experimental and theoretical theories on the mechanical properties and behavior of composite materials as well as matrices and fibers are the subjects of the course.</p> <p>Coverage includes: strength and fracture; damage mechanics and fatigue; optimal design of structures; prediction of long-term properties, effect of environment, ageing; mechanical aspects of technology</p>

Outline
<ol style="list-style-type: none">01、複合材料之定義及其特性02、強化材及介面之結構和特性03、高分子基複材之特性及製程04、陶瓷基複材之特性及製程05、金屬基複材之特性及製程06、複合材料力學分析理論07、短纖維複合材料之機械性質08、複合材料結構之非破壞性檢測

Prerequisite
<p>Engineering Mathematics.</p> <p>Mechanics of Materials.</p>