

## 99-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	工程數學(三)	Serial No. / ID	0706 / EEI3005
Dept.	電機工程學系	School System / Class	大學日間部3年1班
Lecturer	黃登淵	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(二)12 / H303 (三)9 / H303	Language	Chinese

Introduction
<p>1. Complex variables : Complex number, De Moirre • ' s theorem and r o o t s, sets in complex plane, analytic functions and the Cauchy-Riemann equations, complex exponential.(A1,A2,A3,B1,B2.B3)</p> <p>2. Complex integuation : Line integuals unthe complex plane, the Cauchy integual formula and larmmic functions (A1,A2,A3,B1,B2,B3)</p> <p>3. Residues integvation : Residues, evaluation of improper real integvals, evaluation of real definite integvals in sine and cosine.(A1,A2,A3,B1,B2,B3)</p>

Outline
<ol style="list-style-type: none"> <li>1. Complex Analysis</li> <li>2. The residual points</li> <li>3. Partial differential equations</li> </ol>

Prerequisite
Calculus