

## 南台科技大學 98 學年度第 2 期課程資訊

課程名稱	奈米材料特論
課程編碼	40M12901
系所代碼	04
開課班級	碩研化材一甲
開課教師	毛慶豐
學分	3.0
時數	3
上課節次地點	二 6 7 8 教室 E0508
必選修	選修
課程概述	Six special topics on nanomaterials, including polymer nanocomposites, carbon nanotubes and their applications, polymer nanoparticles, nanostructured polymers, applications of self-assembly block copolymers, and nanostructures of polyelectrolytes, are discussed in this course.
課程目標	The goal of this course is to discuss several advanced topics on nanomaterials, mainly related to the applications in polymer science. The students should have a basic understanding of the principles of nanotechnology and polymer science.
課程大綱	<ol style="list-style-type: none"> <li>1. 奈米複合材料</li> <li>2. 奈米碳管及應用</li> <li>3. 聚合物奈米粒子</li> <li>4. 聚合物之奈米結構</li> <li>5. 塊狀共聚合物自組裝之應用</li> <li>6. 聚電解質(DNA)奈米結構</li> </ol>
英文大綱	<ol style="list-style-type: none"> <li>1. Nanocomposite</li> <li>2. Carbon nanotube and its applications</li> <li>3. Polymer nanoparticles</li> <li>4. Nanostructured polymers</li> <li>5. Applications of the self-assembly of block copolymers</li> <li>6. Nanostructures of electrolytes: DNA</li> </ol>
教學方式	課堂教授,分組討論,口頭報告,
評量方法	口頭報告,課堂討論,
指定用書	Nanomaterials: an introduction to synthesis, properties, and application
參考書籍	
先修科目	
教學資源	
注意事項	

全程外語授課	0
授課語言 1	華語
授課語言 2	
輔導考照 1	
輔導考照 2	