

<b>New Course Code and Title</b>	CH7101 Nanotechnology and its Applications	
<b>Details of Course</b>	<p><b>Summary of course content</b> <i>(please note that this information provided will also be uploaded to the web for viewing at large)</i></p> <p>The emergence of nanoscience portends a revolution in technology that will soon impact virtually every facet of our technological lives. This course lays the ground for students who are interested in the field and sparks their imaginations and challenges them to participate in the advances that will bring nanotechnology's potential to fruition.</p> <p>The course will covers on:</p> <ol style="list-style-type: none"> <li>1. Introduction to nanoscience</li> <li>2. Molecular nanotechnology</li> <li>3. Preparation methods of nanopowders and nanomaterials</li> <li>4. Molecular mimics</li> <li>5. Nanobiomimetrics</li> <li>6. Optics, photonics and solar energy</li> <li>7. Nanoelectronics</li> <li>8. Future applications</li> </ol> <p><b>Rationale for introducing this course</b></p> <p>Chemical Engineering fundamentals are important in nanotechnology and its application. This course allows students to integrate and apply these fundamentals in understanding structure-function relationships in nanotechnology.</p> <p><b>Aims and objectives</b></p> <p>The objective of this course is to provide students with a good foundation upon nanotechnology and its relevance can be explored.</p>	
<b>Assessment</b>	<i>Final Examination:</i> <i>Quiz / Tutorial</i> <i>Projects</i>	60% 20% 20%
	Total:	100 %
<b>Hours of Contact/Academic Units</b>	Lecture hours per week: 2 Tutorial hours per week: 1 <i>Total: 3 hours / week; 3 AU</i>	