

New Course Code and Title	BG6004 Biomedical System Design	
Details of Course	Summary of course content (<i>please note that this information provided will also be uploaded to the web for viewing at large</i>)	
	<ol style="list-style-type: none"> 1. Introduction to Biomedical system design. 2. Production definition, documentation, and development. 3. Hardware/software development methods and tools 4. Quality control for biomedical product design. 5. Ethics for biomedical product design. 	
	Rationale for introducing this course This course will be imparted to postgraduate students who come from diverse backgrounds and different universities, a solid foundation in and broad understanding of biomedical engineering fundamentals for designing the biomedical system.	
Assessment	Aims and objectives	
	The objective of the course is to train students in the biomedical system design with a systematic approach to needs finding and the invention and implementation of new biomedical technologies.	
	<i>Example</i> <i>Final Examination:</i> <i>Homework</i> <i>Term Paper</i>	50% 25% 25%
	Total:	100 %
To be offered with effect from (state Academic Year and Semester)	AY 2011/2012 S2	
Cross Listing (if applicable)		
Prerequisites (if applicable)		
Preclusions (if applicable)		
Mode of Teaching & Learning (Lectures, regular tests, Q&A, problem-based learning)	Lectures and reading assignments	
Basic Reading List		
<ul style="list-style-type: none"> • Compulsory Reading • Supplementary Reading 	None Design of Biomedical Devices and Systems (Marcel Dekker) by King and Fries.	
Maximum Class Size	30	
Hours of Contact/Academic Units	<i>Example</i> 39 hours / 3 AU	
Workload Per Week (The workload for a 3-AU course must add up to 39 hours of contact hours)	Lecture hours per week	2
	Tutorial hours per week	1
	Laboratory hours per week	
	No. of hours per week for projects, fieldwork, Assignments, reading, etc.	3
	Total hours per week	6