



Sample Brief Course Description

Course title	Capstone Design Project (1)
Course code	BME 480
College	Engineering
Department / Program	Biomedical Engineering
Year/ Level	5/ 14 th
Course Type	A. <input type="checkbox"/> University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input type="checkbox"/> Others b. <input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective
Credited Hours	3
Contact Hours	(LT:2, LB:2,TR:0)
Pre-requisites (if any)	Completing 210 CR from program requirements.
Co-requisites (if any)	---
Course description	Senior students select a design project and apply learned tool and knowledge to design process, components, and/or system. Students develop work plan, identify the problem, formulate the problem through reviewing background and integrating knowledge; prepare for/or preliminary conducting of the experiments, Collect the field data, develop the mathematical model if applicable; and writing a report stating preliminary findings.



Course Main Objectives	Prepares the senior students to carry a design project, product, component, and/or system based on the learned knowledge reflecting the biomedical engineering program objectives.
Learning Outcomes	Knowledge and Understanding: 1. Identify project problem and statement based on realistic needs and relative constraints. 2. Review related data, knowledge, and experiences from credible sources
	Skills: 1. Formulate problem covering methodology of integrating knowledge drawn from previous courses and information and generating possible alternative design options and solution. 2. Develop design objectives and evaluation
	Values: 1. Communicate orally and in writing the project design details in technical report. 2. Work effectively as member of team.