



G1-Form (Topic and Contents)

Al Imam Mohammad Ibn Saud Islamic University
College of Engineering
Department of _____ Engineering

Name of Supervisor: _____

Student Names: _____

Project Title: Design of an office building with raft footing (Multi Story Building)

Course Contents			
Week	Topics to be Covered	Phase	Semester
1-3	Introduction: Problem statement, Scope, General, Building Configuration of multi story reinforced concrete structures, Literature review of one way slab, two way slab, beams and columns	GP-I	Academic Year: 1438/1439 Semester [1]
4	Load calculation , Load combination		
5-7	Design of one way slab system.(Manual)		
8	Design of beams and columns supporting one way slab system.		
9-12	Preparing excel sheets for beams, columns and slabs of one way slab system and report writing should be finished for above work		
13-16	Design of raft footing.(Manual)	GP-II	Academic Year:1438/1439 Semester [2]
17-18	Preparing excel sheets for raft footing		
19-21	Introduction to Structural analysis and design software		
22-24	Analysis and design of members by using commercially available software		
25-26	Cost Estimation		
23-27	Results, discussions and report writing.		

Note: This is a sample for your reference and will need to be modified according to the graduation project requirements.

Graduation Project type:

The type of graduation project has to be a capstone design. A capstone design project should be planned to provide a unified effort in developing: teamwork skills, multidisciplinary interaction, communication skills, fundamentals of engineering design processes, and application of engineering design principles to a real engineering project. The main objective is to enable students to experience real life engineering problem solving, design, team work, project execution and management. Engineering design includes development of creativity, use of open-ended problems, research skills, use of modern design theory and methodology, analysis, formulation of design problem statements and specifications, consideration of alternative solutions and communication of results

Note: Please attach short introduction, goals and expected outcomes of Graduation Project on separate page.