Course Syllabus
020LOCGS5 Structural Software

Course number and name: 020LOCGS5 Structural Software

1. **Credits and contact hours:** 2credits, 17.5 course hours
2. **Instructor's or course coordinator's name:** Elias DIB
3. **Textbook and other supplemental material:**
   a. ETABS 2016 integrated building design software- Introductory tutorial parts 1 and 2
   b. CSI bridge 2017 integrated bridge analysis, design and rating- Introductory tutorial
   c. Safe V12.0 design of slabs, beams and foundations reinforced and post-tensioned concrete
   d. Instructor's Class Notes
4. **Specific course information**
   a. **Catalog description:** Present the displacement method in its matrix form in order to facilitate its programming
   b. **Prerequisites:** None
   c. **Required/Elective/Selected Elective:** Required major course for Building and Engineering management/Public works and transportation students
5. **Specific goals for the course:**
   a. **Specific outcomes of instruction:**
      - Introduce the students to engineering software that allow them to accomplish their final year project
      - Expose the students to several modeling techniques for the design of different types of structures such as buildings or bridges
      - Present students the needed methods to interpret the output of a given software
   b. **KPIs addressed by the course:**

KPI	a2	k2	k3
Covered	x	x	x
Assessed			
Give Feedback			

6. **Brief list of topics to be covered and approximate number of lectures:**
   1. Introduction (1.5 hours)
   2. ETABS 2016 (6hours)
   3. CSI bridge 2017 (6hours)
   4. Safe V12 (4 hours)