Instructor : Prof J S Kuang (cejkuang@ust.hk)
TAs : Hamid Behnam TAs Coordinator for the course (hbehnam@ust.hk)
      Fabio Cancogni (fcancogni@ust.hk), Xixi Chen (xchenak@ust.hk)
      Danqi He (dqhe@ust.hk), CN Loong (cnloong@ust.hk)
      Peter Shi (tshiaa@ust.hk)
Lecture : Mon and Wed, 0900-1020; G012 LSK Building
Tutorial : T1: Tue 1030-1120; T2: Tue 1500-1550; Venue: LTK
Experiment : LA1: Wed 1630-1750; LA2: Fri 0900-1020; LA3: Mon 1500-1620
            Venue: Concrete Lab (Room 1206)
Course website : http://lmes2.ust.hk/portal

Course description
Ultimate limit state design of reinforced concrete beams, slabs, columns and beam-column joints in buildings; serviceability limit states of deflection and cracking.

Course outline
- Design codes of practice; limit state design concept
- Flexural and shear analysis; design of beams
- Bond, anchorage and laps in reinforcement
- Analysis and design for torsion
- Serviceability, deflection and cracking control
- Design of slabs, punching shear
- Design of columns
- Design of beam-column joints

Text
Kuang JS. Design of Reinforced Concrete, CIVL 3320 Course Notes. HKUST.

Reference books

Codes of practice

Course grading
Assignments/lab reports: 15%; Quiz (18 Mar): 15%; Final exam (to be determined): 70%.
Failure to take the Quiz or Final Exam may result in a failing grade for the course.