

Department of Civil Engineering			
Design of Reinforced Concrete Structures II Lab. (61413)			
Total Credits	1		
major compulsory			
Prerequisites	P1 : Design of Reinforced Concrete Structures II (61412) P11Synch. : Design of Reinforced Concrete Structures II (61412)		
Course Contents			
Practical applications to various topics covered in design of reinforced concrete (1) and (2).			
Intended Learning Outcomes (ILO's)		Student Outcomes (SO's)	Contribution
1	1. Use computer software (like Sap2000) in solving engineering problems concerning slab systems, torsion, deflection and columns	K	65 %
2	2. Design of two way slabs	C	35 %
Textbook and/ or References			
Arman, I. Reinforced Concrete Structure laboratory Manual, An-Najah National University , 2013.			
Assessment Criteria		Percent (%)	
Quizzes		10 %	
Projects		40 %	
Final Exam		50 %	
Course Plan			
Week	Topic		
1	Introduction		
2	Continuous beams		
3, 4, 5, 6 &7	One way solid slabs, one way ribbed slabs and beam and girder systems		
8	Torsion		
9, 10 &11	Two way slab systems		
12	Serviceability		
13	Columns		
14	Project presentation		
15	Final Exam		