

Project: Structural Concrete Design / Fourth Year / First Semester / 2018-2019										Instructor: Prof Dr. Bayan Salim		
* Design the floor systems of the building shown by Direct Design Method:										Assistant: Razhan Shahab		
No.	Names of Students	Floor	La (m)	Lb (m)	Lc (m)	bm EW / NS		Columns		Drop Panel According to ACI code	f'c (MPa)	fy (MPa)
						b (mm)	h (mm)	C (EW) (mm)	C (NS) (mm)			
1	Ahmed Abdullah Mohammed Salih	1	7.5	7						-----	21	350
	Bawan Mohsin Sadeq Yaseen	2	7.5	7						√	21	420
	Abdulla Dishad Abdullah	3	7.5	7						-----	28	520
	Diawer Dana Mustafa	4	7.5	7						-----	28	520
2	Mohammed Nihad Ahmed	1	7.5	6.5						-----	21	350
	Omer Khalid Abbas	2	7.5	6.5						√	21	420
	Yaseen Salah Ahmed	3	7.5	6.5						-----	28	520
	Warz Noori Salah Ahmed	4	7.5	6.5						-----	28	520
3	Bnar Abubakir Muhammedameen	1	7.5	6						-----	21	350
	Suzan Hassan Mohammed Salih	2	7.5	6						√	21	420
	Omer Mustafa Azeez	3	7.5	6						-----	28	520
	Banoo Sahand Serwan	4	7.5	6						-----	28	520
4	Nadin Kameran Jalil	1	7.5	5.5						-----	21	350
	Ilham Mueen Salih Mohammed	2	7.5	5.5						√	21	420
	Fatima Yaseen Awla	3	7.5	5.5						-----	28	520
	Sheeda Hasan Ameen	4	7.5	5.5						-----	28	520
5	Abdulla Hassan Azbah	1	7.5	5						-----	21	350
	Rahand Abdulqahr omer	2	7.5	5						√	21	420
	Ibrahim Surur Majeed	3	7.5	5						-----	28	520
	Karwan Mohammedameen Yaseen	4	7.5	5						-----	28	520
	Pers Abdulwahab Ahmed	1	7.5	5	4.5					-----	28	520
6	Mohammed Sirwan Mahmood	1	7	6.5						-----	21	350
	Abdulkareem Karzan Gharib	2	7	6.5						√	21	420
	Abdulsalam Pshtiwan Abdurrezzaq	3	7	6.5						-----	28	520
	Hallo Nazir Qadr	4	7	6.5						-----	28	520
	Rewan Akram Ahmad Rasul	1	7	6.5	6					-----	28	520

Dead Loads (Floors)	
Slab Weight	$\gamma$
Tiles	1 KN/m <sup>2</sup>
Partitions	1 KN/m <sup>2</sup>
Plastering	0.5 KN/m <sup>2</sup>
Others	1 KN/m <sup>2</sup>
$\gamma_c$	24 KN/m <sup>3</sup>

Dead Loads (Roof)	
Slab Weight	$\gamma$
Roof Tiles	1 KN/m <sup>2</sup>
10 cm Sand	2 KN/m <sup>2</sup>
Water Proofing and Plastering	1 KN/m <sup>2</sup>
$\gamma_c$	24 KN/m <sup>3</sup>

Live Loads	
First Floor	5 KN/m <sup>2</sup>
Second Floor	4 KN/m <sup>2</sup>
Third Floor	3.5 KN/m <sup>2</sup>
Roof	2 KN/m <sup>3</sup>

**\* Requirements for each student:**

1. Full Design report including the detailed calculations of Moment and Shear in the slab system and the reinforcement details.
2. Drawing sheets by AutoCad software program
3. All deliveries shall be received in printed method and as softcopy in CD
4. Deadline is 29/10/2019