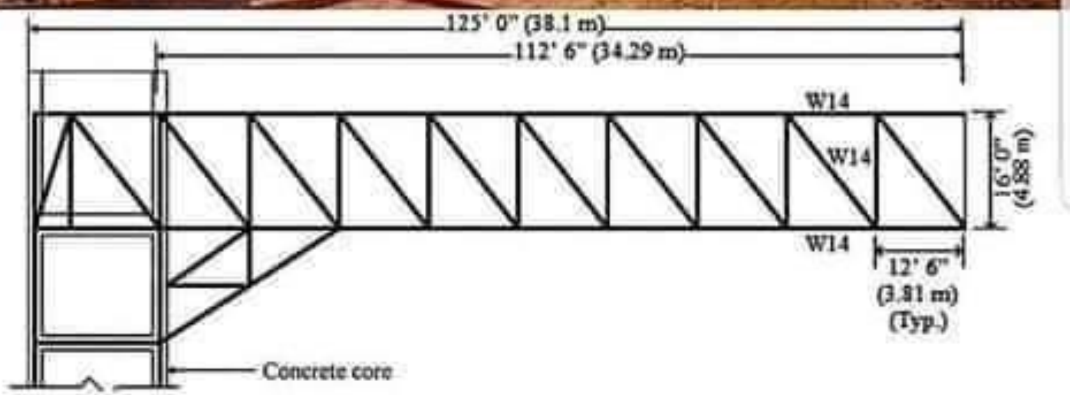
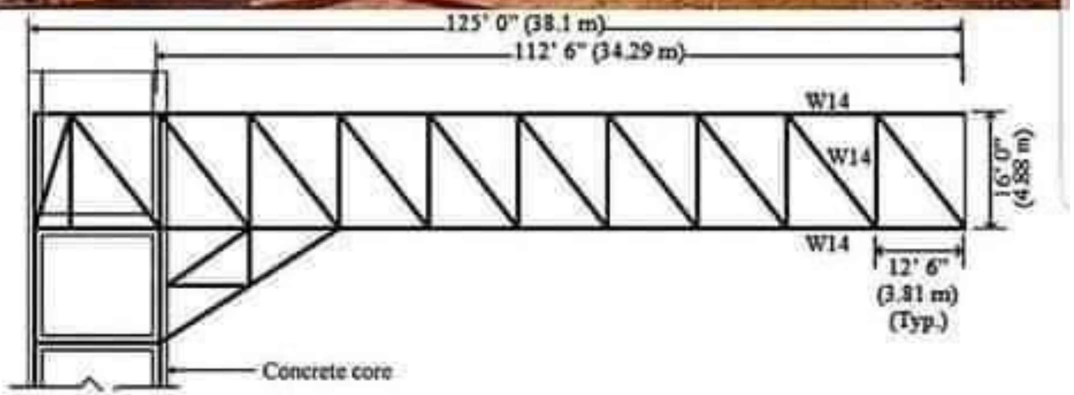


Steel Structures 2 Sem. 1 2025-2024

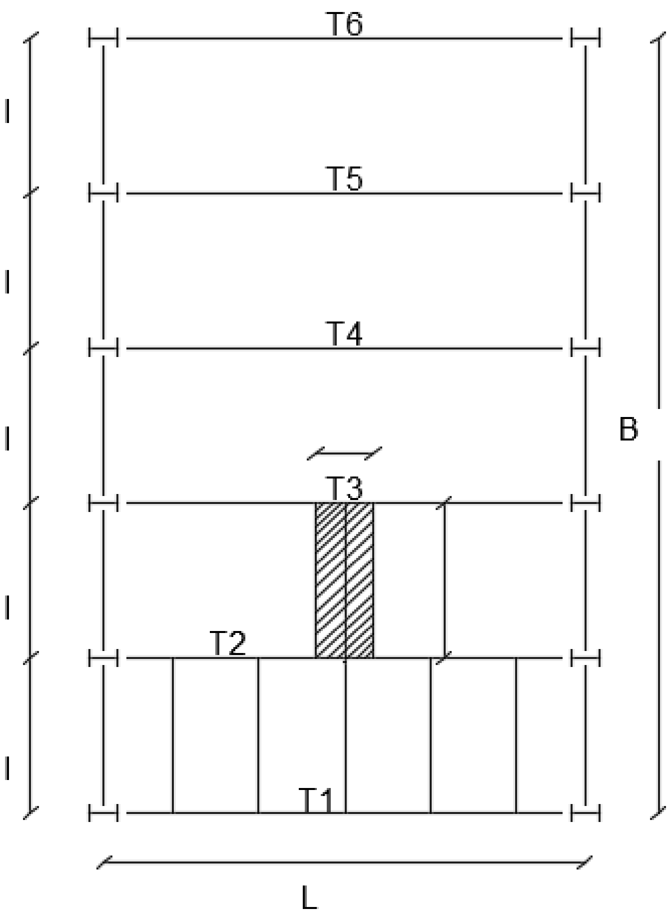
أ.د. نايل محمد حسن

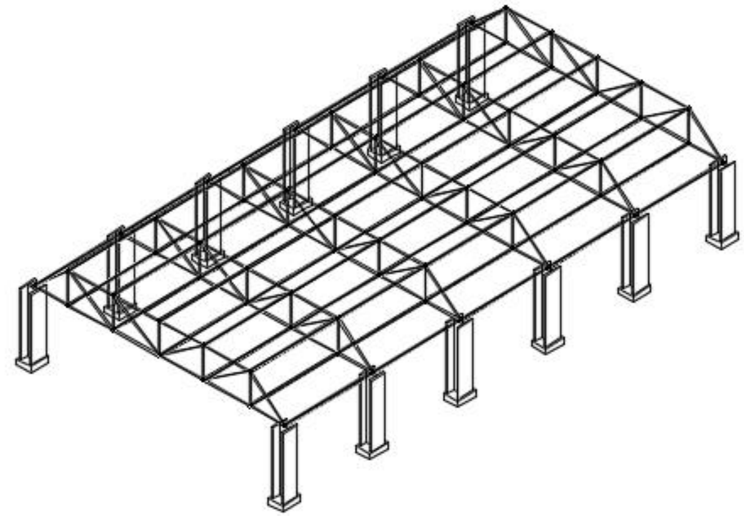


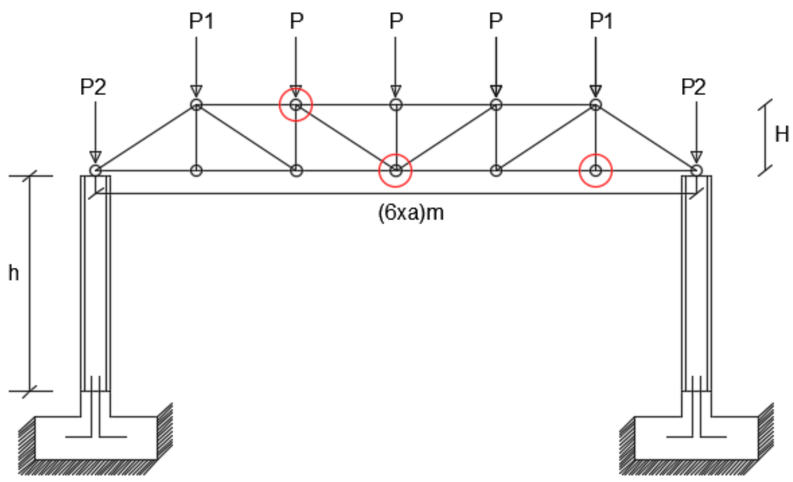
Semester 1 Project Data 2023-2024

أ.د. نايل محمد حسن

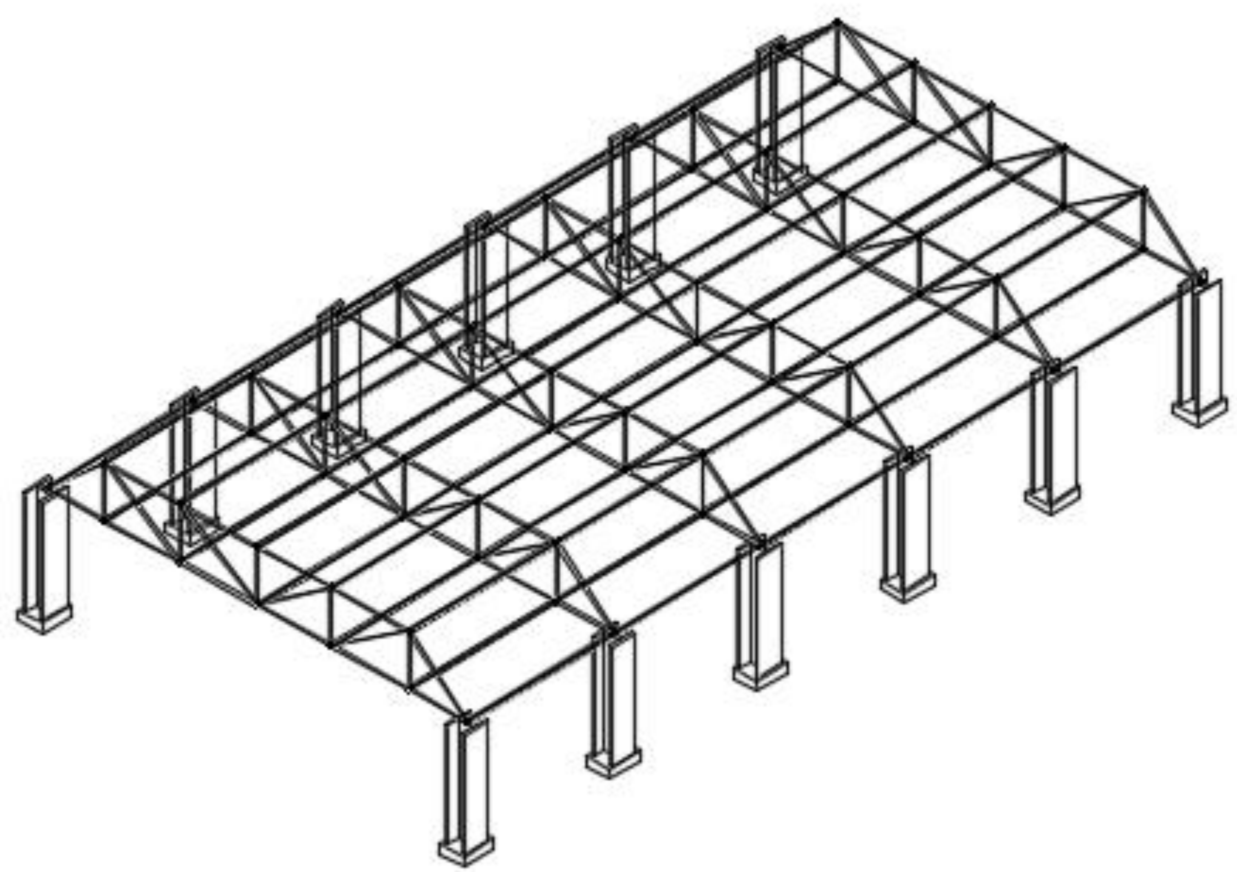
Educational Project drawing



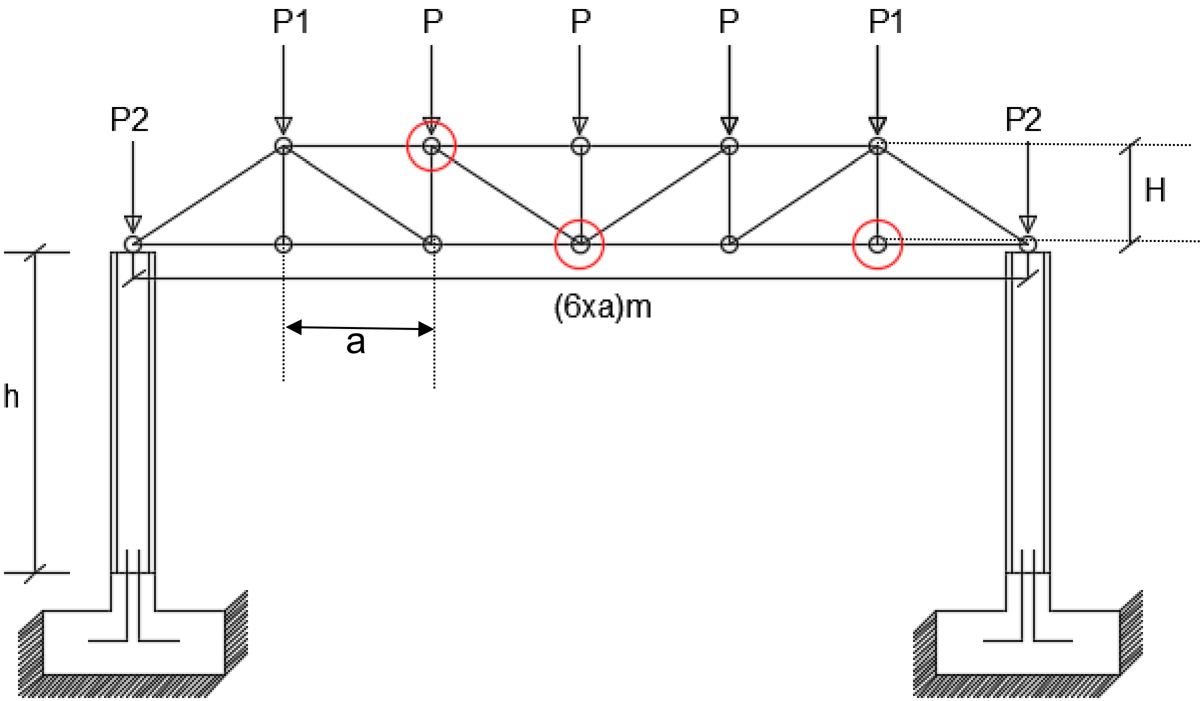




Project drawing

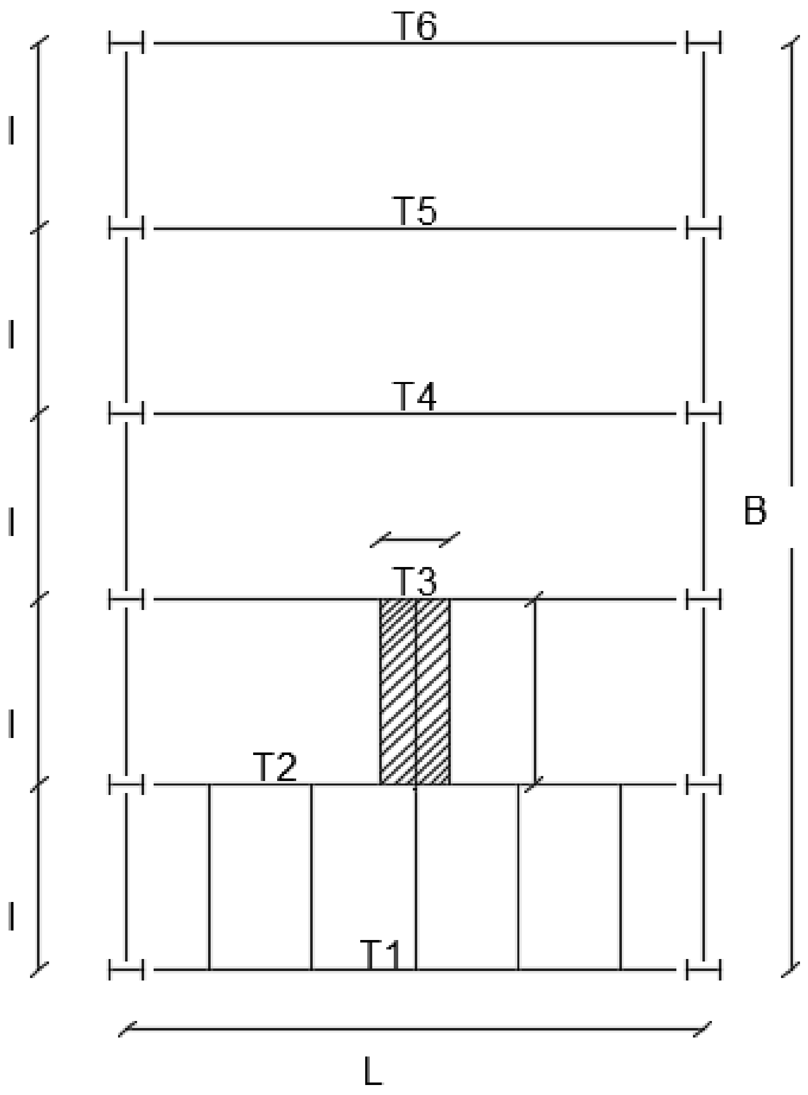


Project drawing



l = 3.5 H

Project drawing



Project drawing

Data of project		
Column	Section	UC
Beams	Section	IPE
Purlins	Section	Channel
Truss members	Section	Angles
Bracings	NA	NA
Steel	S	S
LL	kN/m^2	
DL1	kN/m^2	
DL2	kN/m^2	
B	m	
a	m	
l	m	
H	m	

Project Data

No.	Name	LL kN/m^2	DL1 kN/m^2	DL2 kN/m^2	a (m)	*L* (m)	H (m)	Steel grade
1	بتول سلمان قنجراوي	1.8	2.6	3	2.1	4.4	1.5	S275
2	بتول ناصر ديوب	2.0	2.7	2.7	2.3	4.6	1.4	S235
3	بدر حسين جراد	2.3	2.4	2.5	2.4	4.8	1.3	S350
4	بسام جورج ديب	2.6	2.1	2.8	2.5	5	1.2	S235
5	جودي ياسر أصلان	2.8	2.7	2.4	2.2	5.2	1.1	S275
6	حذيفه عبد اللطيف اليوسف	3.1	2.8	2.3	1.8	5.4	1	S235
7	حسن محمد ابراهيم	1.4	3	2.4	2.5	5.6	1.4	S350
8	حمزه وائل معروف	1.6	3.1	2.5	2.3	4.5	1.3	S235
9	درغام محمد حلوه	1.8	2.8	2.4	2.2	4.7	1.2	S275
10	راما علاء الدين الخطيب	2.1	2.5	3	1.6	5.2	1.1	S275
11	سامر فراس سلوم	2.4	2.6	2.7	1.7	5.4	1	S235
12	شهد حسام شاوي	2.6	2.5	2.8	2.5	5.6	1.4	S350
13	عبد الله محي الدين ابراهيم	2.8	2	2.8	2.3	4.5	1.3	S235
14	على احمد المحمد	3.2	2.6	2.5	2.0	4.7	1.2	S275
15	فاطمه محمد سيد رصاص	3.3	3	2.6	2.0	4.7	1.2	S275
16	فيصل فيصل خليل	2.7	2.4	3	1.4	4.3	1.1	S235
17	لما علي فياض	1.7	2.6	3.2	1.5	4.5	1.15	S350
18	ليث علي الجاسم	2.3	2.7	2.7	1.6	4.7	1.30	S235
19	ميريان سليمان موسى	2.9	2.8	2.5	1.8	4.9	1.45	S275

Each Group must do the following

Design Criteria:

1- Cross sections selection

2- Load calculation.

3- Analysis.

4- Combinations

5- Design Steps

Make your calculation for the maximum load on the trusses member, column and design column base plate as an example, make all checks to ensure that sections you choose are meets EC3 requirements, assume all data you need to complete your design.

Outputs:

1- Calculation sheet include (Loads – Combinations– Data–results of analysis) Design of (column, Truss elements, beam, purlin, connection)

2-Drawings include (truss – top view of the structure – sections you used –Sample of connections you designed – column).

Final Dead line: