Residential house with 5 stories and 2 parking basement.

Floor plan combined structure system of RC load bearing walls and columns.

Flat slab supported on columns 300x300mm.

Columns are designed to carry loads to the foundation 450x450 mm.

Underground floor for the purpose of parking flat slab with thickness of 240mm supported by perimeter RC wall 350mm.

Internal columns 450x450mm are designed to collect the surface load and transfer it safely to the columns, wall and finally to foundation.

Perimeter walls are able to resist the lateral earth pressure.

Material:
Concrete C30/37
Steel B500
Cover 35mm

Subject: Building structures
Department: Student name:
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chosen structure system