



Al-Mansour University College

قسم الهندسة المدنية

Civil Eng. Dept.

المرحلة الثانية

2nd. Stage

Building Construction

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Lecture 4

Cycle process of building construction

❖ The main stages are:



- 1: Planning
- 2: Design
- 3: Tendering
- 4: Construction Process
- 5: Handover
- 6: Evaluation

Elements create building loading

- ❖ Various loads are taken into account while designing the foundation of a structure loads coming on a structure are:
- ❖ Two broad categories:
 - Dead loads
 - Live loads
- ❖ Specific terms for dead loads and live loads:
 - Concentrated load
 - Distributed load
 - Design load
 - Undesigned load
 - Fire load

Structural Elements

• Foundation

• Columns

• Beams

• Slabs

• Stairs

• Lifting

• Etc.

_ Slabs

R C buildings

In an RCC framed structure, the load is transferred from a slab to the beams then to the columns and further to lower columns and finally to the foundation which in turn transfers it to the soil.

RCC

Cement concrete is strong in compressive strength but weak in tensile strength. To increase tensile strength we use mild steel bars in cement concrete. Steel bars used in cement concrete provide good strength to the structure.

