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Civil engineering structures are mainly made-up of the column, Beam and Slabs and these structures are subjected to axial as well as eccentric loading. These structures may be determinant or indeterminate. The members like a fixed beam, continuous beam, portal frame are indeterminate structures.

What is Structural Design in Civil Engineering? - eSUB
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Structures are subjected to forces external to themselves, such as weights placed on them, the deadweight of the structure itself, wind or water pressure, and reactions exerted by the ground on which the structure rests. Before engineers can design a structure, they must be able to determine all the forces acting on it at any one time.

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Structural engineers combine the core principles of structural design with a sound background in physics and materials science to ensure that structures are built to withstand the loads and forces that they will encounter during their usage. Civil engineers that design structures for construction projects must be excellent problem solvers.

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