

STRUCTURAL ENGINEERING MECHANICS AND STRENGTH OF MATERIALS

ENGINEERING MECHANICS

- Branch of engineering that deals with the analysis of the **external effects of forces on rigid bodies.**

BRANCHES OF ENGINEERING MECHANICS



STATICS

- Deals with the study of the external effects of forces on rigid bodies at **rest and remain at rest** before and after the application.

DYNAMICS

- Deals with the motion of bodies under action of forces, **the mathematical analysis of the motion as a result of impressed forces.**

KINEMATICS	KINETICS
Calculates the trajectory of particles or bodies.	Calculates the motion and the causes of that motions.
Does not consider the mass of each particle in the system	Considers the mass of each particle in the system.
Can be considered a branch of mathematics	Is a branch of physics and cannot be regarded as branch of mathematics.

RIGID BODIES

- Do not deform under load.
- A basic requirement for the study of the mechanics of deformable bodies and the mechanics of fluids. (Advanced courses).

FORCE

- Is an action, a push or pull upon an object.

CHARACTERISTICS OF FORCE

- **Magnitude, F**
 - Amount of force
- **Direction, θ**
 - Orientation of the path where force is imposed.



TENSION VS. COMPRESSION

TENSION

- An external force that creates a pulling or stretching action on a material



COMPRESSION

- An external force that creates a push or squeezing action on a material.



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Zhe Xu



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