

**EX.No: 1**

**Date:**

**Analysis & design of simply supported beam using software**



**AIM:**

To Analysis & Design determinate fixed & continuous beam by using STAAD Pro

**SOFTWARE REQUIRED:**

STAAD PRO 2023

**PROCEDURE IN STAAD PRO:**

**A simply supported beam of span 8m and uniform load 5kn/m**

**STAAD PROCEDURE:**

- 1.Model Creation: Begin by creating a model of the simply supported in STAAD Pro. Define the geometry, supports, and loading conditions.
- 2.Material Properties: Specify the material properties such as modulus of elasticity, Poisson's ratio, and unit weight.
- 3.Loading: Apply the appropriate loading conditions to the beam, including dead loads, live loads, and any other relevant loads.
- 4.Analysis: Perform structural analysis to determine the internal forces and moments within the beam due to the applied loads.
- 5.Design Code Selection: Choose the appropriate design code for the project. STAAD Pro supports various design codes such as AISC, Eurocode, and IS.

# Civil Engineering Staad Pro Lab Manual

**Rachel Sandford**



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