



## Mechanical set of solids and fluids (I)

EQ350A

### Function

Intended for experimental study, physics laboratory and carrying out physics experiments on: mechanics of solids and fluids, movement in one dimension, scalar kinematics, statics, dynamics, referential, trajectory, distance traveled, initial and final position, displacement, movement uniform motion (MRU), velocity, uniformly varied motion in a straight line (MRUV), acceleration, Torricelli equation, Newtons first law of motion, Newtons second law, relationship between force and acceleration, relationship between mass and acceleration, frictional forces, coefficient of static and kinetic friction simple machine, mechanical advantage, equilibrium conditions of a material point, diagram of forces, relationship between work and kinetic energy, conservation of mechanical energy, momentum and momentum, conservation of momentum, coefficient of restitution, elastic collision, inelastic collision, simple harmonic motion (SHM), relationship between period and amplitude, relationship between period and mass, equilibrium of a material point, measurement of mass, measurement of weight and determination of local  $g$  value, etc.

### Knowledge areas

Physics

### Level

Graduation - Technical education - High school

Av. Victor Barreto, 592 - CEP 92010-000 - Canoas - RS - Brasil