

## Multi Body Dynamics analysis with ANSA Kinetics tool

### *webinar sessions*

#### Session 1:

- What is ANSA Kinetics
- Markers
  - How to create a marker
- Bodies
  - How to define a rigid body
  - How to merge bodies
- Graphics
  - How to create graphic object
- Joints
  - How to define a joint (various types)
- Motions
  - How to define motion on joint
  - How to define motion o bodies
- Forces
  - Single-component force
  - Multi-component force
  - Spring-Damper force
  - Bushing force
- Simulator
  - Model info
  - Types of simulation (Kinematic, Dynamic, Static Equilibrium, Initial Conditions)
- Results Viewer
  - Plotting simulation results
  - Exporting simulation results
- Exporting plotted curves as numerical data



## **Supporting material:**

### **Tutorials**

- Contact simulation of a Valvetrain model
- How to find the trajectory of moving bodies
- Flex body simulation

### **Video tutorials**

[ANSA kinetics tool](#)