Design and analysis of air foil

An airfoil-shaped body moved through a fluid produces an aerodynamic force. The component of this force perpendicular to the direction of motion is called lift. The component parallel to the direction of motion is called drag. Subsonic flight airfoils have a characteristic shape with a rounded leading edge, followed by upper and lower surfaces.

In this paper we create the model of air foil and determine the drag forces, lift forces and pressure values by CFD analysis are determined. the design and analysis are performed by using solid works 2014.