**55. Design and Analysis Of A Motor Bike Frame**

**ABSTRACT**

Frame is very important part of bikes, as all the important accessories are mounted on the frame. The frame need to be very strong, stiff and light in weight, which is obtained by combining different materials and optimizing its shapes. The strength of frame construction is correct design of a frame because it is the most important part that ensures safe riding. This project deals with the design of bike frame. The modeling of bike frame is done in solid works and analysis of frame is done using the ansys work bench software. This project gives us the stress, strain, displacement values of particular bike frame on load condition