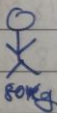


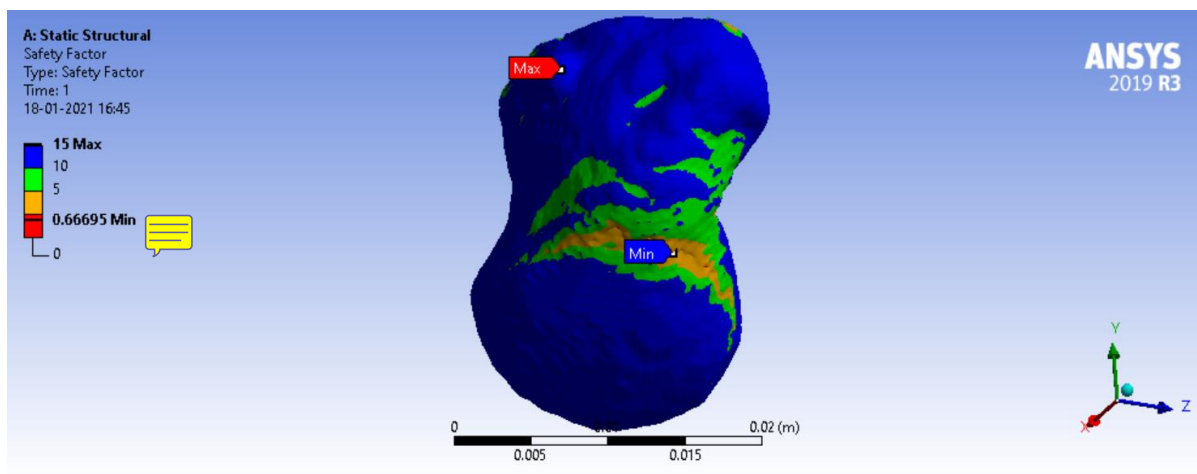
Walk and Slip

Impact force calculations

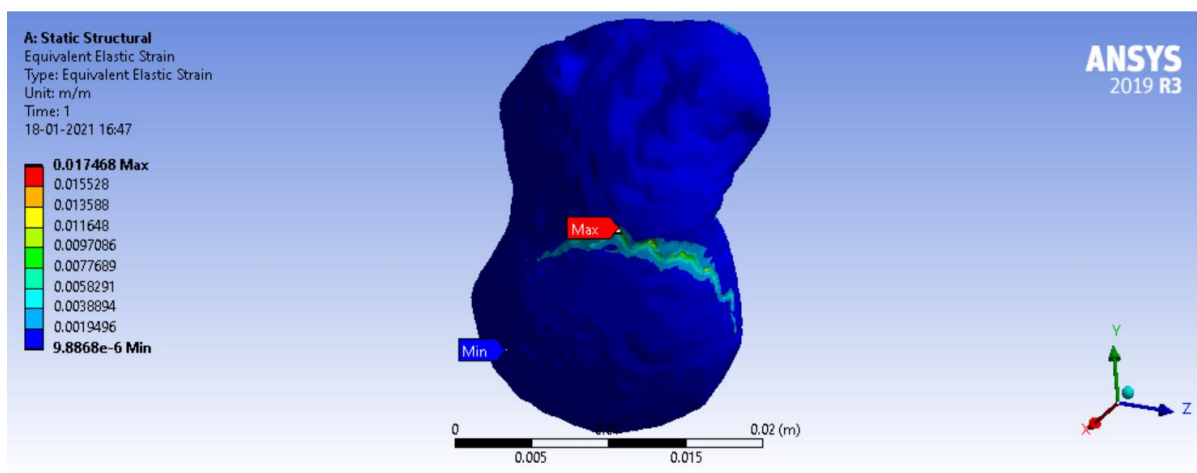
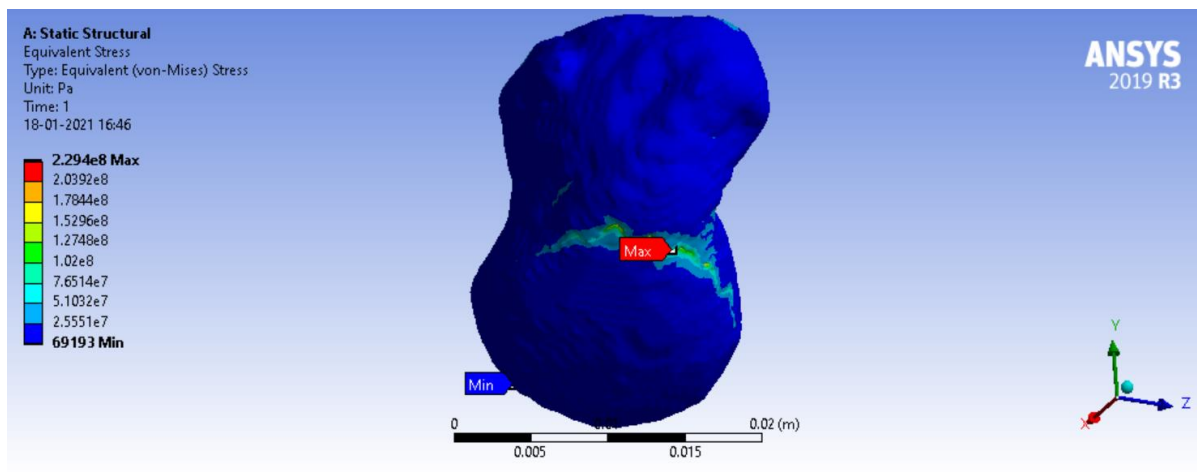
Body Mass = 80 Kg
Impact velocity = $0 + 10 \times 1$
 $= 10 \text{ m/s}$
Impact duration = 1 s
Thus,
Peak impact force = $\frac{2mv}{t} = \frac{2 \times 80 \times 10}{1} = 1600 \text{ N}$



FEM Results – Factor of Safety

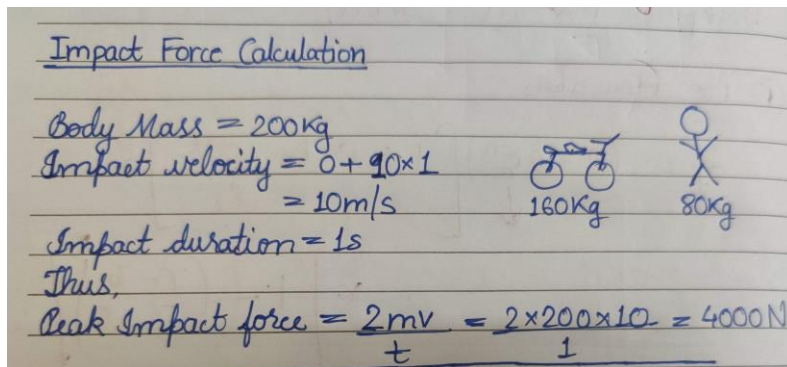


The crack is generated but is very minute



Bike Riding Fall

Impact Force calculations



FEM Results – Factor of Safety

