Module 7: Momentum and Impulse heywords: momentum, impulse, collision, explosion Formulas:

p=mV - momentum

J = EF ot = Ap - impulse

 $2p_1 = 2p_2 = const.$

Key points:

. Momentum is always conserved in a closed system.

· Change in momentum (impulse) is the area under the curve of EF vs. time graph.

General approach:

· Identify the system (coliding objects, parts of exploading object)
· Apply conservation of momentum.