

# Laws of Conservation for a particle and system of particles

# Centre of Mass

# Constraints

\* # Conservative and Non-Conservative force

# Generalized Notation

\* # Hamilton's principle & Lagrange's Eq<sup>n</sup>

\* # Application of Lagrange's Eq<sup>n</sup>

# Frame of Reference

\* # Galilian Transformation

\* # Michelson & Morley Experiment

# Postulate of Theory of Relativity

\* # Lorentz's transformation

# Mass-Energy Equivalence