

Dr. Basistha Ram Bhuyan

Assistant Professor

B.Sc. Sem: 6

Paper Name: Mechanics

Paper Code: MAT0600604

Credit:4

Topics	No. of Lecture	Time Period	Mode of Teaching	Mode of Evaluation
Unit-1: Composition and Resolution of Forces, Parallelogram of Forces, Triangles of Forces, Converse of Triangle of Forces, Lami's Theorem, Parallel Forces, Moment of a Force about a point and an axis, Couple, Resultant of a system of Forces. Equilibrium of coplanar Forces. Friction, C.G. of an arc, Plane area, Surface of Revolution, Solid of	Theory-24	March & April	Interactive Lecture	Home-Assignment, Written Test

Unit-2: Velocities and Acceleration along radial and transverse directions and along tangential and normal directions, motion in a straight line under variable acceleration, simple harmonic motion and elastic string. Newton's Law of motion. Work, Energy and momentum, Conservative forces-Potential energy, Motion in resisting medium	Theory-26	February & March	Interactive Lecture	Home-Assignment, Written Test
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B.Sc Sem: 6

Paper Name: Partial Differential Equations

Paper Code:

Credit:4

Topics	No. of Lecture	Time Period	Mode of Teaching	Mode of Evaluation
Unit-2: Canonical form of first order Partial Differential Equations, Method of separation of variables for first order Partial	Theory-15	April & May	Interactive Lecture	Home Assignment, Written Test

