

Course Outline

ME 165: Basic Mechanical Engineering

Sakib Javed

Lecturer

**Department of Mechanical Engineering
Bangladesh University of Engineering and Technology (BUET)
Dhaka-1000, Bangladesh**

sakibjaved@me.buet.ac.bd



ME 165: Syllabus

[3.00 Credit Hours]

Sources of Energy-Conventional and Renewable; Introduction to IC Engines, Refrigeration Air-conditioning Systems. —————→ **Mr. Aminul Islam**

Statics of particles and rigid bodies; Forces in trusses and frames; Relative motion, Kinematics of particles- Newton's Second Law of motion, Kinematics of rigid bodies. —————→ **Ms. Sadia Tasnim**

Introduction to robotics; Plane, Rotational and Spatial motion with applications to manipulators, Geometric configurations: structural elements, linkages, arms and grippers; Motion characteristics. —————→ **Mr. Sakib Javed**



Text Book

- ❖ Introduction to Robotics: Analysis, Control, Applications- Saeed B. Nikuv
- ❖ Introduction to Robotics Mechanic and Control- John J. Craig
- ❖ *Robotics: Modelling, Planning, and Control*. Springer.
- ❖ *Robot Manipulators: Mathematics, Programming, and Control*. MIT Press.



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Thank You

