#Jenny

Finally I get this ebook, thanks for all these I can get now!

#Rio

Cool! I'am really happy

#Markus Jensen

I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu

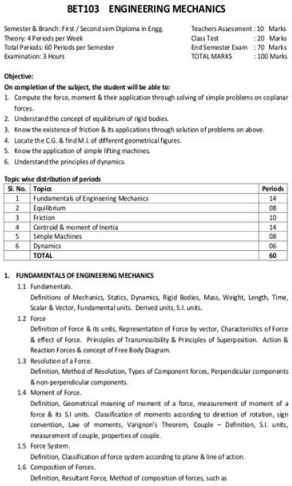
wtf this great ebook for free?!

#Che Salsa

My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler

so many fake sites. this is the first one which worked! Many thanks



BET103 ENGINEERING MECHANICS

Semester & Branch: First / Second sem Diploma in Engg. Teachers Assessment : 10 Marks
Theory: 4 Periods per Week Class Test : 20 Marks
Total Periods: 60 Periods per Semester End Semester Exam : 70 Marks
Examination: 3 Hours TOTAL MARKS : 100 Marks

Objective:
On completion of the subject, the student will be able to:
1. Compute the force, moment & their application through solving of simple problems on coplanar forces.
2. Understand the concept of equilibrium of rigid bodies.
3. Know the existence of friction & its applications through solution of problems on above.
4. Locate the C.G. & find M.I. of different geometrical figures.
5. Know the application of simple lifting machines.
6. Understand the principles of dynamics.

Topic wise distribution of periods

Sl. No.	Topics	Periods
1	Fundamentals of Engineering Mechanics	14
2	Equilibrium	08
3	Friction	10
4	Centroid & moment of Inertia	14
5	Simple Machines	08
6	Dynamics	06
	TOTAL	**60**

1. FUNDAMENTALS OF ENGINEERING MECHANICS

1.1 Fundamentals.
Definitions of Mechanics, Statics, Dynamics, Rigid Bodies, Mass, Weight, Length, Time, Scalar & Vector, Fundamental units. Derived units, S.I. units.

1.2 Force
Definition of Force & its units, Representation of Force by vector, Characteristics of Force & effect of Force. Principles of Transmissibility & Principles of Superposition. Action & Reaction Forces & concept of Free Body Diagram.

1.3 Resolution of a Force.
Definition, Method of Resolution, Types of Component forces, Perpendicular components & non-perpendicular components.

1.4 Moment of Force.
Definition, Geometrical meaning of moment of a force, measurement of moment of a force & its S.I units. Classification of moments according to direction of rotation, sign convention, Law of moments, Varignon's Theorem, Couple – Definition, S.I. units, measurement of couple, properties of couple.

1.5 Force System.
Definition, Classification of force system according to plane & line of action.

1.6 Composition of Forces.
Definition, Resultant Force, Method of composition of forces, such as