



TEERTHANKER MAHAVEER UNIVERSITY

DEPARTMENT OF PHYSIOTHERAPY

VALUE ADDED COURSES

(w.e.f. 2018-19)



Course Code: VBPHY101	Value Added Course B.P.T. 1st Year FUNDAMENTALS OF MECHANICS	Hours: 18
Course Outcomes:	On completion of the course, the students will be :	
CO1	Understanding of Basic knowledge of the stress and strain	
CO2	Understanding of Measurement of the Strains	
CO3	Application and evaluation of stress and strain on human body	
Course Content		
Unit – 1:	Fundamentals of Stress and strain as applied to mechanics of body	3 Hours
Unit – 2:	Stress- strain diagrams, Force, Motion, Inertia, Newton's law of motion	4 Hours
Unit – 3:	Equilibrium, Levers, Pulleys, Springs	4 Hours
Unit – 4:	Generalized Hooke's Laws, Elasticity, Plasticity	3 Hours
Unit – 5:	Application of mechanics on human anatomy	4 Hours
<u>Books</u>	1. Carol Oatis Kinesiology, The Mechanics And Pathomechanics Of Human Movement 2. Joint structure and function- Cynthia Norkins, 4th Edition, Jaypee Publication.	

