

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Mechanical Engineering - NOC:Mechanics of Human Movement

Subject Co-ordinator - Prof. Sujatha Srinivasan

Co-ordinating Institute - IIT - Madras

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Basic Terminologies
Lecture 2 - Skeletal System
Lecture 3 - Axial and Appendicular Skeleton
Lecture 4 - Bones in the Human Body
Lecture 5 - Types of Joints
Lecture 6 - Movements about Joints
Lecture 7 - Levers in the Human Body
Lecture 8 - Skeletal Muscles: Functions
Lecture 9 - Skeletal Muscles: Structure - Part I
Lecture 10 - Skeletal Muscles: Structure - Part II
Lecture 11 - Mechanics and Modeling of Muscles
Lecture 12 - Muscle Action - Part I
Lecture 13 - Muscle Action - Part II
Lecture 14 - Principles of Statics
Lecture 15 - Static Analysis of Elbow - Part I
Lecture 16 - Static Analysis of Elbow - Part II
Lecture 17 - Static Analysis of Shoulder - Part I
Lecture 18 - Static Analysis of Shoulder - Part II
Lecture 19 - Static Analysis of Spine - Part I
Lecture 20 - Static Analysis of Spine - Part II
Lecture 21 - Static Analysis of Spine - Part III
Lecture 22 - Static Analysis of Hip - Part I
Lecture 23 - Static Analysis of Hip - Part II
Lecture 24 - Static Analysis of the Knee
Lecture 25 - Static Analysis of the Knee and Ankle
Lecture 26 - Kinetics: Linear Motion - Part I
Lecture 27 - Kinetics: Linear Motion - Part II
Lecture 28 - Kinetics: Linear Motion - Part III
Lecture 29 - Kinetics: Angular Motion - Part I

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- Lecture 30 - Kinetics: Angular Motion - Part II
- Lecture 31 - Kinetics: Angular Motion - Part III
- Lecture 32 - Kinetics: Angular Motion - Part IV
- Lecture 33 - Kinetics of Arm Swinging during Walking
- Lecture 34 - Inverse Dynamics Analysis
- Lecture 35 - Biomechanics of Balance - Part I
- Lecture 36 - Biomechanics of Balance - Part II
- Lecture 37 - Biomechanics of Balance - Part III
- Lecture 38 - Human Gait
- Lecture 39 - Human Gait Terminologies
- Lecture 40 - Characteristics of Normal Gait - Part I
- Lecture 41 - Characteristics of Normal Gait - Part II
- Lecture 42 - Characteristics of Normal Gait - Part III
- Lecture 43 - Pathological Gait - Part I
- Lecture 44 - Pathological Gait - Part II
- Lecture 45 - Pathological Gait - Part III
- Lecture 46 - Introduction to Assistive Devices for Mobility
- Lecture 47 - Design Considerations: Prosthetic Foot
- Lecture 48 - Design Considerations: Prosthesis and Orthosis
- Lecture 49 - Design Considerations: Prosthetic Knee
- Lecture 50 - Journey of Standing Wheelchair Development