

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

NPTEL Video Course - Humanities and Social Sciences - NOC:Human Movement Science

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Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Course Introduction
- Lecture 2 - Learning outcomes and module design
- Lecture 3 - Professional skillset development
- Lecture 4 - Skeletal system
- Lecture 5 - Muscular system
- Lecture 6 - Neuromuscular System
- Lecture 7 - Motor control and learning
- Lecture 8 - Anatomical planes and axes of motion
- Lecture 9 - Major joints and their actions - Part 1
- Lecture 10 - Major joints and their actions - Part 2
- Lecture 11 - Muscles and movement
- Lecture 12 - Posture - static and dynamic
- Lecture 13 - Implications of functional anatomy in HMS
- Lecture 14 - Introduction to the concepts of biomechanics
- Lecture 15 - Review of Basic - Mathematical Concepts
- Lecture 16 - Linear Kinematics
- Lecture 17 - Angular Kinematics
- Lecture 18 - Linear Kinetics
- Lecture 19 - Angular Kinetics - Part 1
- Lecture 20 - Angular Kinetics - Part 2
- Lecture 21 - Angular Kinetics - Part 3
- Lecture 22 - Angular Kinetics - Part 4
- Lecture 23 - Qualitative analysis - Intro, Data Collection
- Lecture 24 - Qualitative analysis - Analysis and Injury
- Lecture 25 - Quantitative analysis
- Lecture 26 - Coaching implications in HMS
- Lecture 27 - Fundamental movement skills - Part 1
- Lecture 28 - Fundamental movement skills - Part 2
- Lecture 29 - Fundamental movement skills - Part 3

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- Lecture 30 - Gait Analysis
- Lecture 31 - Exercises - Part 1
- Lecture 32 - Exercises - Part 2
- Lecture 33 - Exercises - Part 3
- Lecture 34 - Injury Patterns - Part 1
- Lecture 35 - Injury Patterns - Part 2
- Lecture 36 - Sports - Part 1
- Lecture 37 - Sports - Part 2
- Lecture 38 - Biomechanical characteristics of various sports - Part 1
- Lecture 39 - Biomechanical characteristics of various sports - Part 2
- Lecture 40 - Data Science
- Lecture 41 - AI and ML
- Lecture 42 - Technological advancements and Research in HMS - Part 1
- Lecture 43 - Technological advancements and Research in HMS - Part 2
- Lecture 44 - Career Opportunities