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SYLLABUS FOR THE POST OF PHYSICAL TRAINING INSTRUCTOR

Unit - 1:

Introduction to physical education

The Unitary Aspect of Man. The nature of physical education outcomes of physical education Changing trends and career in physical education, concept and principles of integral physical education. Movement as a process of integration. Physical education meaning and source of its principles

Physical education -its Humanistic Foundation

Physical education in ancient nations (Greece, Rome)
Physical education during the Dark Ages and middle Ages
European background for modern physical education
Physical education in the Twentieth century
Trilogy of Great Leaders of physical education
History of physical education in India
Sports schemes in India

Physical education its Philosophical Bases

Components of philosophy
Traditional Philosophy
Implication of philosophy for physical education

Olympic Movement

Ancient and modern Olympic games
Asian games
South Asian Federation Games
Afro –Asian Games
Structure and functions of international bodies controlling various games and sports
Prominent honours and awards in games and sports.

Unit - 2:

Anatomical and physiological bases

Biological basis of life Biological weaknesses The Skeleton (Axial and Appendicular) Joint and lever system The muscles The nervous system

Human growth and development

Genetics Body types Posture and body mechanics Health and fitness The fitness cycle Types of fitness

Health (community health, school health and personal health)

Hypokinetic diseases

Benefits of exercise to the (Respiratory system, Muscular system, vital organs and nutritive system)

Anthropological bases

Biological Evolution Cultural Evolution Implication of anthropology for the physical education

Sports training and Therapeutic modalities

Principles of training
Methods of executing training load
Training plans
First —Aid and emergency treatment in various cases.
Electrical stimulation
Cryotherapy
Laser therapy, Massage and Traction

Unit - 3:

Biomechanics

Use of Biomechanics in sports
Principles of biomechanics

Analytic Biomechanical Techniques

Cinematography Kinetography Electromyography Goniography

Kinetics and kinematics

Newton's Laws of motion
Centrifugal and centripetal forces
Levers
Impact and elasticity
Equilibrium, principles of equilibrium and its application in sports
Forces and its types
Friction
Osteokinetimics and arthrokinematics

Projectiles and trajectory

Factors affecting the projectile and trajectory in sports Mechanical analysis of jumps Mechanical of throws Mechanical analysis of running

Unit – 4:

Learning

General assumptions about learning Kinds of learning, conditions affecting learning Various psychological factors that affect performance in sports Theories of learning Laws of learning Adolescent problems and their management

Motivation

Internal process and external process theories Conditions and factors for sports motivation Levels of motivation Role of motivation in sports Association between motivation and mental health in sports

Personality

Dimensions of personality Theories of personality Assessment of personality traits Relationship between personality and sports

Intelligence

Nature of intelligence Approach to intelligence (Implicit approach and Explicit approach) Measurement of intelligence Body -mind interaction and Intelligence Concept of athletic intelligence

Unit - 5:

History of test and measurement

Anthropometry, Muscular strength and endurance, cardiovascular measurements, Athletic ability testing, sports skill testing, power measurement, knowledge testing and social measurement.

Physical and motor fitness testing

AAHPER youth physical fitness test National Physical Efficiency Test Indiana Motor fitness test Barrow general motor ability test Newton motor ability test Metheny -Johnson motor educability test

Cardio -pulmonary endurance

Tuttle Pulse test Harvard step test Run –walk test Measurement of cardio- vascular test Sports skill testing

Basket Ball skill tests and Badminton skill testing Football Skill tests Volleyball skill tests Hockey skill test and Hand ball skill testing Athletic s skill testing and Archery skill testing

Unit - 6:

Statistic and evaluation

Statistical concepts
Functions of statistical test
Classification of statistic
Data , its types and collecting measures
Rating scales in physical education

Sampling in research

Population and sampling Steps in sampling process Sampling theory Techniques Sampling size

Elements of research

Hypothesis
Variable
Value of hypothesis in research
Elements of a good hypothesis
Conditions for accepting and or rejecting Null hypothesis
Level of significance
Methods of research

Descriptive Research method Historical research method Experimental research method

Unit – 7:

Sports and social values

Sports as a socializing process
Sports in educational settings
Equity and discrimination in sports
Sports sociology in future
Principles of sports sociology
Leadership qualities

Violence in sports

Violence of sports through history Violence on the and off the field Assaults and sexual assaults by athletes General factors related to violence in sports.

Sports and economics

Economic motives and the globalization of commercial sports Corporations use sports as vehicles for global expansion Youth sports programs and spectator interest Out sports in action: Branding sports

Race and ethnicity

Racial concepts in sports

Sports participation among racial and ethnic minorities

Sports participation

Influence of international politics on Sports and games

Effects of Indian politics and economy on the promotion of sports events