

TEERTHANKER MAHAVEER UNIVERSITY

(Established under Govt. of U. P. Act No. 30, 2008) Delhi Road, Moradabad (U.P.)

PhD PROGRAMME

SYLLABUS FOR DISCIPLINE-SPECIFIC COURSE PHYSICAL EDUCATION

Course Code:	Essentials of Physical Education	L	T	P	C	
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Objective:	1. To recapitulate the concepts of Physical Education					
	2. To regain a basic understanding of the subject.					
	3. To apply different concepts of physical education in a	ı				
C	multidimensional approach.					
Course Outcomes:						
CO 1:	Remembering the concepts of anatomy & Physiology,	-				
	biomechanics & kinesiology, sports training, health	ed	ucat	ion	&	
	Sports Nutrition.					
CO 2:	Understanding the concepts of anatomy & Physiology,	-				
	biomechanics & kinesiology, sports training, health	ed	ucat	ion	&	
	Sports Nutrition.					
CO 3:	Applying the concepts of anatomy & Physiology,					
	biomechanics & kinesiology, sports training, health	ed	ucat	ion	&	
	Sports Nutrition.					
CO 4:	Creating the concepts of anatomy & Physiology, y	_				
	biomechanics & kinesiology, sports training, health	ed	ucat	ion	&	
	Sports Nutrition.					
CO 5:	Evaluating the concepts of anatomy & Physiology,	yog	ic s	cien	ce,	
	biomechanics & kinesiology, sports training, health	ed	ucat	ion	&	
	Sports Nutrition.					
Course Content:						
Unit 1: ANATOMY	Meaning & Definition of Exercise Physiology and its Ro	ole i	n th	e Fi	eld	
& PHYSIOLOGY	of Physical Education and Sport,					
	The arrangement of the skeleton – Function of the skeleton – Ribs and					
	Vertebral column and the extremities – joints of the b	ody	/ an	d th	eir	
	types,					
	Blood Supply to the Heart, Heart Rate, Cardiac Cycle, Stroke Volume,					
	Cardiac Output,					
	Anaerobic and Aerobic Metabolism,					
	Effect of Exercises and Training on the Muscular Syste	m, (Circ	ulato	ory	
	System & Respiratory System.					
Unit 2: YOGIC	Meaning and Definition of Yoga,					
SCIENCES	Astanga Yoga: Bahiranga Yoga & Antarang Yoga,					
	Asanas- Types, Techniques, and Benefits,					
	Pranayama- Types, Methods, and Benefits,					
	Meaning, Techniques, and Benefits of Meditation.					
Unit 3: SPORTS	Meaning and Definition of Mechanics, Biomechanics &	Ki	nesi	olog	gy,	
BIOMECHANICS	Meaning, Definition, and Types: Axis and Planes,					
AND	Centre of Gravity and Line of Gravity & its use in sport	s,				

TRAINING Periodization, Training Plan- Micro Cycle, Meso-Cycle, Macro Cycle, Causes of Overload, Symptoms of Overload, and Methods of Tacklin Overload. Unit 5: HEALTH EDUCATION AND SPORTS NUTRITION Meaning & definition of Health & Health Education, Concept of Communicable and Non-Communicable Diseases, Types of Nutrients, Role of nutrition in sports, Concept of BMI (Body mass index).		Newton's Law of Motion- Law of Inertia, Law of Acceleration, and				
Unit 4: SCIENTIFIC PRINCIPLES OF SPORTS TRAINING Periodisation- Meaning and Aim of Periodisation, Phases of Periodization, Training Plan- Micro Cycle, Meso-Cycle, Macro Cycle, Causes of Overload, Symptoms of Overload, and Methods of Tacklin Overload. Unit 5: HEALTH EDUCATION AND SPORTS NUTRITION Meaning & definition of Health & Health Education, Concept of Communicable and Non-Communicable Diseases, Types of Nutrients, Role of nutrition in sports, Concept of BMI (Body mass index).		± ·				
PRINCIPLES OF SPORTS TRAINING Training Load- Definition, Component of Training Load, Periodisation- Meaning and Aim of Periodisation, Phases of Periodization, Training Plan- Micro Cycle, Meso-Cycle, Macro Cycle, Causes of Overload, Symptoms of Overload, and Methods of Tacklin Overload. Unit 5: HEALTH EDUCATION AND SPORTS NUTRITION Meaning & definition of Health & Health Education, Concept of Communicable and Non-Communicable Diseases, Types of Nutrients, Role of nutrition in sports, Concept of BMI (Body mass index).						
Periodisation- Meaning and Aim of Periodisation, Phases of Periodization, Training Plan- Micro Cycle, Meso-Cycle, Macro Cycle, Causes of Overload, Symptoms of Overload, and Methods of Tacklin Overload. Unit 5: HEALTH EDUCATION AND SPORTS NUTRITION NUTRITION Meaning & definition of Health & Health Education, Concept of Communicable and Non-Communicable Diseases, Types of Nutrients, Role of nutrition in sports, Concept of BMI (Body mass index).		Principles of Sports Training,				
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SPORTS NUTRITION Types of Nutrients, Role of nutrition in sports, Concept of BMI (Body mass index).	EDUCATION AND					
Role of nutrition in sports, Concept of BMI (Body mass index).		<u> </u>				
	NUTRITION	1 * 1				
Toythooks 1 William D. M. A. II. E		Concept of BMI (Body mass index).				
1. William, D. McArdle. Exercise Physiology, Energy, Nutrition	Textbooks:	1. William, D. McArdle. Exercise Physiology, Energy, Nutrition,				
		and Human Performance. Philadelphia: Lippincott Williams				
and Wilkins Company						
2. Koualayananda Swami & S.L. Vinekar, Yogic Therapy – Basi		2. Koualayananda Swami & S.L. Vinekar, Yogic Therapy – Basic				
Principles and Methods. New Delhi: Govt. of India, Centra		•				
Health Education and Bureau.						
3. Nutrition Encyclopedia, edited by Delores C.S. James, Th		3. Nutrition Encyclopedia, edited by Delores C.S. James, The				
Gale Group, Inc. Boyd-Eaton S., et al						
4. Uppal A. K., Science of Sports Training, Friends Publication		4. Uppal A. K., Science of Sports Training, Friends Publication,				
New Delhi.						
5. Uppal A.K. Lawrence Mamta MP Kinesiology (Friend		5. Uppal A.K. Lawrence Mamta MP Kinesiology (Friends				
Publication India)		Publication India)				
Reference Books: 1. Swami Satyananda Saraswathi, Kundalini and Tantra, Biha	Reference Books:	1. Swami Satyananda Saraswathi, Kundalini and Tantra, Bihar:				
Yoga Publications Trust		Yoga Publications Trust				
2. Sandhya Tiwari. Exercise Physiology. Sports Publishers		2. Sandhya Tiwari. Exercise Physiology. Sports Publishers				
3. Terras S. Stress, How Your Diet Can Help: The Practical Guid		3. Terras S. Stress, How Your Diet Can Help: The Practical Guide				
to Positive Health Using Diet, Vitamins, Minerals, Herbs an		to Positive Health Using Diet, Vitamins, Minerals, Herbs and				
Amino Acids, Thorns						
4. Bunn, J.N. Scientific Principles of Coaching, New Jersey Engl		4. Bunn, J.N. Scientific Principles of Coaching, New Jersey Engle				
Wood Cliffs, Prentice Hall Inc.		4. Buill, J.N. Scientific Filliciples of Coaching, New Jersey Engle				
5. Hoffman S.J. Introduction to Kinesiology (Human Kinesiolog						
publication.		Wood Cliffs, Prentice Hall Inc.				