

AIR FORCE SCHOOL, BAMRAULI
Annual Split-Up of Syllabus
Academic Session 2026-27

Class: - XII
Education

Subject: -Physical

Book Name:- V. K SHARMA (Saraswati Publication)

MONTH	CHAPTER/UNIT	TOPIC/SUBTOPIC	NO OF PERIODS	ACTIVITY
April	UNIT 1 Management of Sporting Events	1. Functions of Sports Events Management (Planning, Organising, Staffing, Directing & Controlling) 2. Various Committees & their Responsibilities (pre; during & post) 3. Fixtures and their Procedures – KnockOut (Bye & Seeding) & League (Staircase, Cyclic, Tabular method) and Combination tournaments. 4. Intramural & Extramural tournaments – Meaning, Objectives & Its Significance 5. Community sports program (Sports Day, Health Run, Run for Fun, Run for Specific Cause & Run for Unity)	15	<ul style="list-style-type: none"> • Lecturebased instruction, • Technologybased learning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning, • Game-based learning and • Expeditionary learning.

April	UNIT 2 Children & Women in Sports	1. Exercise guidelines of WHO for different age groups. 2. Common postural deformities-knock knees, flat foot, round shoulders, Lordosis, Kyphosis, Scoliosis, and bow legs and their respective corrective measures. 3. Women's participation in Sports – Physical,	12	<ul style="list-style-type: none"> • Lecturebased instruction, • Technologybased learning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning,
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		Psychological, and social benefits. 4. Special consideration (menarche and menstrual dysfunction) 5. Female athlete triad (osteoporosis, amenorrhea, eating disorders.		<ul style="list-style-type: none"> • Game-based learning and • Expeditionary learning.
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<p>May</p>	<p>UNIT 3 Yoga as Preventive measure for Lifestyle Disease</p>	<p>1. Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan pranayama.</p> <p>2. Diabetes: Procedure, Benefits & Contraindications for Katichakrasana, Pavanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta - vajarasana, Paschimottanasana -a, Ardha - Mastendrasana, Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati.</p> <p>3. Asthma: Procedure, Benefits & Contraindications for Tadasana, Urdhwahastottanasana, UttanMandukasana - a, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalabhati, Gomukhasana Matsyaasana, Anuloma Viloma.</p> <p>4. Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana,</p>	<p>12</p>	<ul style="list-style-type: none"> • Lecturebased instruction, • Technologybased learning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning, • Game-based learning and • Expeditionary learning.
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		<p>Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, UttanMandukasan -a, Vakrasana, Bhujangasana, Makarasana, Shavasana, Nadi - shodhanapranayam, Sitlipranayam.</p> <p>5. Back Pain and Arthritis: Procedure, Benefits & Contraindications of Tadasan, Urdhawahastootansa na, ArdhChakrasana, Ushtrasana, Vakrasana, Sarala Maysyendrsana, Bhujandgasana, Gomukhasana, Bhadrasana, Makarasana, NadiShodhana pranayama</p>		
June	<p>UNIT 4 Physical Education and Sports for CWSN (Children with Special Needs - Divyang)</p>	<p>1. Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics)</p> <p>2. Concept of Classification and Divisioning in Sports.</p> <p>3. Concept of Inclusion in sports, its need, and Implementation;</p> <p>4. Advantages of Physical Activities for children with special needs.</p> <p>5. Strategies to make Physical Activities assessable for children with special needs</p>	13	<ul style="list-style-type: none"> • Lecturebased instruction, • Technologybased learning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning, • Game-based learning and • Expeditionary learning.

July	UNIT 5 Sports & Nutrition	<ol style="list-style-type: none"> 1. Concept of balanced diet and nutrition 2. Macro and Micro Nutrients: Food sources & functions 3. Nutritive & NonNutritive Components of Diet 	12	<ul style="list-style-type: none"> • Lecturebased instruction, • Technologybased learning, • Group learning, • Individual learning, • Inquiry-based learning,
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		<ol style="list-style-type: none"> 4. Eating for Weight control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance, and Food Myths 5. Importance of Diet in Sports-Pre, During and Post competition Requirements 		<ul style="list-style-type: none"> • Kinesthetic learning, • Game-based learning and • Expeditionary learning.
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<p>July</p>	<p>UNIT 6 Test & Measurement in Sports</p>	<p>1. Fitness Test – SAI Khelo India Fitness Test in school: Age group 5-8 years/ class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test Age group 9-18yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit & Reach flexibility test, Strength Test (Partial Abdominal Curl Up, PushUps for boys, Modified Push-Ups for girls).</p> <p>2. Measurement of Cardio Vascular Fitness – Harvard Step Test – Duration of the Exercise in Seconds $x100/5.5 \times$ Pulse count of 1 -1.5 Min after Exercise.</p> <p>3. Computing Basal Metabolic Rate (BMR)</p> <p>4. Rikli & Jones - Senior Citizen Fitness Test • Chair Stand Test for lower body strength • Arm Curl Test for upper body strength • Chair Sit & Reach Test for lower body flexibility • Back Scratch Test for upper body flexibility • Eight Foot Up & Go Test for agility • Six Minute Walk Test for Aerobic Endurance</p> <p>5. Johnsen – Methney Test of Motor Educability (Front Roll, Roll, Jumping Half-Turn, Jumping full-turn</p>	<p>13</p>	<ul style="list-style-type: none"> • Lecturebased instruction, • Technologybased learning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning, • Game-based learning and • Expeditionary learning.
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<p>August</p>	<p>UNIT 7 Physiology & Injuries in Sport</p>	<ol style="list-style-type: none"> 1. Physiological factors determining components of physical fitness 2. Effect of exercise on the Muscular System 3. Effect of exercise on the CardioRespiratory System 4. Physiological changes due to aging 5. Sports injuries: Classification (Soft Tissue Injuries - Abrasion, Contusion, Laceration, Incision, Sprain & Strain; Bone & Joint Injuries - Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique & Impacted) 	<p>13</p>	<ul style="list-style-type: none"> • Lecturebased instruction, • Technologybased learning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning, • Game-based learning and • Expeditionary learning.
<p>August</p>	<p>UNIT 8 Biomechanics and Sports</p>	<ol style="list-style-type: none"> 1. Newton's Law of Motion & its application in sports 2. Types of Levers and their application in Sports. 3. Equilibrium – Dynamic & Static and Centre of Gravity and its application in sports 4. Friction & Sports 5. Projectile in Sports 	<p>18</p>	<ul style="list-style-type: none"> • Lecturebased instruction, • Technologybased learning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning, • Game-based learning and • Expeditionary learning.

September	UNIT 9 Psychology and Sports	<ol style="list-style-type: none"> 1. Personality; its definition & types (Jung Classification & Big Five Theory) 2. Motivation, its type & techniques. 3. Exercise Adherence: Reasons, Benefits & Strategies for Enhancing it 	12	<ul style="list-style-type: none"> • Lecturebased instruction, • Technologybased learning, • Group learning, • Individual learning, • Inquiry-based learning,
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		<ol style="list-style-type: none"> 4. Meaning, Concept & Types of Aggressions in Sports 5. Psychological Attributes in Sports – Self-Esteem, Mental Imagery, Self-Talk, Goal Setting 		<ul style="list-style-type: none"> • Kinesthetic learning, • Game-based learning and • Expeditionary learning.
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September	UNIT 10 Training in Sports	<ol style="list-style-type: none"> 1. Concept of Talent Identification and Talent Development in Sports 2. Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle. 3. Types & Methods to Develop – Strength, Endurance, and Speed. 4. Types & Methods to Develop – Flexibility and Coordinative Ability. 5. Circuit Training - Introduction & its importance 	15	<ul style="list-style-type: none"> • Lecturebased instruction, • Technologybased learning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning, • Game-based learning and • Expeditionary learning.
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October - january	Practicle	Revision and practice of Games and sports	56	<ul style="list-style-type: none"> • Lecturebased instruction, • Technologybased learning, • Group learning, • Individual learning, • Inquiry-based learning, • Kinesthetic learning, • Game-based learning and • Expeditionary learning.