LESSON PLAN

Name of Faculty		LESSON PLAN
Department		RAJNI SHARMA
Semester		Applied Sciences And Humanities
Subject		1st
Lesson Plan for the	e Duration	Mathematics- I
Week	Daration	1st Oct 2022 - 20th Jan 2023
		Topic
1st (1Oct -04Oct)		Orientation Programme
2nd (6Oct- 13 Oct.)	Trigonometry	Concept of angles, measurement of angles in degrees, grades and radians and their conversions.
3rd (14 Oct20 Oct.)	Trigonometry	T-Ratios of Allied angles (without proof),Sum,difference formulae and their applications (without proof)
4th (21 Oct 02 Nov.)	Trigonometry	Product Formulae (Transformation of Product to Sum ,Difference and vice -versa),T-Ratio of multiple angles ,sub multiple angles (2A,3A,A/).Graphs of sin x, cos x .
5th (03 Nov09 Nov.)	Differential Caiculus	Definition of function ,Concept of limits .Four standard limits
6th (10 Nov17 Nov.)	Differential Caiculus	Differentiation by definition of x^n , $\sin x \cos x$, $\tan x \in D$ Differentiation of sum ,Product of functions .
7th 18 Nov 24 Nov.)	Differential Caiculus	Differentiation of quotient of function ,Differentiation of function of a function
8th 25 Nov01 Dec.)	Differential Caiculus	Differentiation of trigonometric and inverse trigonometric function, Logarithmic differentiation .
9th 02 Dec-08 Dec.)	Algebra	Complex Number : Definition ,real and imaginary parts of a complex number, polar and cartesian representation of complex number and its conversion from one from to other. Conjugate of comolex number.
10th 9 Dec16 Dec.)	Algebra	Modulus and Amplitude of a complex number.Addition, Subtraction,Multiplication and Division of a complex number . De- movier's theorem, its application.
11th 7Dec 23 Dec.)	Algebra	Partial Fractions: Definition of polynomial fraction proper & improper fractions and definition of partial fractions. To resoive proper into partial fraction with denominator containing non- repeated linear factors, repeated linear factors.
12th 4 Dec 31Dec.)	Algebra	√alue of P(n,r) and C(n,r)
13th 9 Jan14 Jan.)	Algebra	Binomial theorem : Binomial theorem (without proof) for positive ntegral index (expansion and general form) binomial theorem for any ndex (expansion without proof) .
14th 5Jan -20 Jan.)	Algebra F	First and second binomial approximation with applications

Signature of H.O.D

Signature of the Teacher
Rayni Sharma

Lesson Plan

		Lesson Plan	
Name of Faculty	Anil Rewal, Saroop Chand		
Department	Applied Science & Humanities		
Semester	First		
Subject	Applied Physics-I		
Lesson Plan for the			
Duration	1st Oct. 2022 to 20 Jan.2023		
Week	Topic	Details Of Topics	
1st(1Oct 4 Oct.)	Orientation programme	Orientation programme	
2nd(6 Oct13 Oct.)	Physical world, Units and Measurements	Physical quantities: fundamental and derived, Units and systems of units (FPS, CGS and SI units), Dimensions and dimensional formulae of physical quantities, Principle of homogeneity of dimensions, Dimensional equations and their applications	
3rd(14 Oct - 20 Oct)	Physical world, Units and Measurements	(conversion from one system of units to other, checking of dimensional equations and derivation of simple equations), Limitations of dimensional analysis. Errors in measurements (systematic and random), absolute error, relative error, error estimation and significant figures.	
4th(21 Oct 2 Nov.)	Force and Motion	Scalar and Vector quantities – examples, representation of vector, types of vectors. Addition and Subtraction of Vectors, Triangle and Parallelogram law (Statement only), Scalar and Vector Product, Resolution of a Vector and its application to inclined plane (Rectangular components) and lawn roller.	
5th(3 Nov9 Nov.)	Force and Motion	Force, Momentum, Statement and derivation of conservation of linear momentum, its application such as recoil of gun &rockets, Impulse and its applications. Circular motion, definition of angula displacement, angular velocity, angular acceleration, frequency, time period.	
6th(10 Nov17 Nov.)	Force and Motion	Relation between linear and angular velocity, linear acceleration and angular acceleration (relate numerical), Centripetal and Centrifugal forces with live examples, Expression and applications such as banking of roads and bending of cyclist.	
7th(18 Nov24 Nov.)	Work, Power and Energy	Work: Concept and units, examples of zero work, positive work and negative work Friction: concept, types, laws of limiting friction, coefficient of friction, methods for reducing friction and its engineering applications, Work done in moving an object on horizontal and inclined plane for rough and plane surfaces and related applications.	
8th(25 Nov1 Dec.)	Work, Power and Energy	Energy and its units, kinetic energy, gravitational potential energy with examples and derivations, Mechanical energy, conservation of mechanical energy for freely falling bodies, transformation of energy (examples). Power and its units, power and work relationship, calculation of power (numerical problems).	
9th(2 Dec8 Dec.)	Rotational Motion	Translational and rotational motions with examples. Definition of torque and angular momentum and their examples. Conservation of angular momentum (quantitative) and its applications.	
10th(9 Dec16 Dec.)	Rotational Motion	Moment of inertia and its physical significance, radius of gyration for rigid body, Theorems of parallel and perpendicular axes (statements only), Moment of inertia of rod, disc, ring and sphere (hollow and solid): (Formulae only).	
	Properties of Matter	Elasticity: Definition of stress and strain, different types of modulii of elasticity, Hooke's law, significance of stress-strain curve.	
17th(74 1Ac -31 1Ac 1	Properties of Matter	Pressure: definition, units, atmospheric pressure, gauge pressure, absolute pressure, Fortin's Barometer and its applications. Surface tension: concept, units, cohesive and adhesive forces, angle of contact, Ascent Formula (No derivation), applications of surface tension, effect of temperature and impurity on surface tension	
13th(9 Jan14 Jan.)	Heat and Thermometry	Concept of heat and temperature.Modes of heat transfer (conduction, convection and radiation with examples), scales of temperature and their relationship, Types of Thermometer (Mercury thermometer, bimetallic thermometer, Platinum resistance thermometer, Pyrometer) and their uses.	
i4th(16 Jan20 Jan).	Heat and	Expansion of solids, liquids and gases, coefficient of linear, surface and cubical expansions and relation amongst them, Co-efficient of thermal conductivity.	

Anil Dewal HOD AS&H

Saroop Chand Lecturer Physics

Lesson Plan

		Lesson Plan		
Name of Faculty	+	Anil Rewal, Saroop Chand		
Department	+	Applied Science & Humanities		
Semester		First		
Subject		Applied Physics-I		
Lesson Plan for the Duration		1st Oct. 2022 to 20 Jan.2023		
Week	Topic	Details Of Topics		
1st(1Oct 4 Oct.)	Orientation programme	Orientation programme		
2nd(6 Oct13 Oct.)	Physical world, Units and Measurements	Physical quantities: fundamental and derived, Units and systems of units (FPS, CGS and SI units), Dimensions and dimensional formulae of physical quantities, Principle of homogeneity of dimensions, Dimensional equations and their applications		
3rd(14 Oct - 20 Oct)	Physical world, Units and Measurements	(conversion from one system of units to other, checking of dimensional equations and derivation of simple equations), Limitations of dimensional analysis. Errors in measurements (systematic and random), absolute error, relative error, error estimation and significant figures.		
4th(21 Oct 2 Nov.)	Force and Motion	Scalar and Vector quantities – examples, representation of vector, types of vectors. Addition and Subtraction of Vectors, Triangle and Parallelogram law (Statement only), Scalar and Vector Product, Resolution of a Vector and its application to inclined plane (Rectangular components) and lawn roller.		
5th(3 Nov9 Nov.)	Force and Motion	Force, Momentum, Statement and derivation of conservation of linear momentum, its application such as recoil of gun &rockets, Impulse and its applications. Circular motion, definition of angula displacement, angular velocity, angular acceleration, frequency, time period.		
6th(10 Nov17 Nov.)	Force and Motion	Relation between linear and angular velocity, linear acceleration and angular acceleration (related numerical), Centripetal and Centrifugal forces with live examples, Expression and applications such as banking of roads and bending of cyclist.		
7th(18 Nov24 Nov.)	Work, Power and Energy	Work: Concept and units, examples of zero work, positive work and negative work Friction: concept, types, laws of limiting friction, coefficient of friction, methods for reducing friction and its engineering applications, Work done in moving an object on horizontal and inclined plane for rough and plane surfaces and related applications.		
8th(25 Nov1 Dec.)	Work, Power and Energy	Energy and its units, kinetic energy, gravitational potential energy with examples and derivations, Mechanical energy, conservation of mechanical energy for freely falling bodies, transformation of energy (examples). Power and its units, power and work relationship, calculation of power (numerical problems).		
Sthirt Dec -x Dec 1	Rotational Motion	Translational and rotational motions with examples. Definition of torque and angular momentum and their examples. Conservation of angular momentum (quantitative) and its applications.		
10th(9 Dec16 Dec.)	Rotational			
1th/1 / Dec - / (Dec) I		Elasticity: Definition of stress and strain, different types of modulii of elasticity, Hooke's law, significance of stress-strain curve.		
2th/24 Dec -31 Dec 11	Properties of Matter	Pressure: definition, units, atmospheric pressure, gauge pressure, absolute pressure, Fortin's Barometer and its applications. Surface tension: concept, units, cohesive and adhesive forces, angle of contact, Ascent Formula (No derivation), applications of surface tension, effect of temperature and impurity on surface tension		
2th/Q lan -14 lan) I	Heat and Thermometry t	The example of course of temperature and their relationship, Types of The moneter (mercury		
(46/46 lan -20 lan) I		Expansion of solids, liquids and gases, coefficient of linear, surface and cubical expansions and relation amongst them, Co-efficient of thermal conductivity.		

anii Rewal HOD AS&H

Saroop Chand Lecturer Physics

LESSON PLAN

		LESSON PLAN		
Name of Faculty		Ankaj Thakur		
Department		Applied Science & Humanities		
Semester		1st		
Subject		Applied Chemistry		
Lesson Plan for the D	Duration	1st oct. to 20 Jan.2023		
Week	Topic	Details Of Topics		
1st (1 oct 4 Oct.)		Orientation Programme		
2nd (6 oct13 oct.)	Atomic Structure	Definition-Electron, Proton, Neutron, Bohr's Theory with Success & Limitations, Hydrogen Spectrum, Heisenberg uncertainty principle, Quantum Numbers, Shape of s & p Orbitals, Difference b/w Orbit & Orbital, Pauli's Exclusion Principle, Hund's rule, Aufbau Rule, Electronic Configuration (Z=1-30)		
3rd (14oct - 20 oct)	Chemical Bonding & Solutions	Chemical Bonding, Cause of Chemical Bondind, Types of Bonds, Ionic Bond, Covalent Bond, Electronegativity, Difference b/w sigma & pie Bond, Electronic Sea Model of Metallic Bond, Solute, Solvent, Solution, Methods of expressing concentration of solution.		
4th (21 Oct - 2 Nov)		Electronic Concept of Oxidation ,Reduction & Redox Reactions,Definition-Electrolytes,Non- Electrolytes with examples,Faraday's Law of Electrolysis with simple numerical problems.		
5th (03 Nov09 Nov.)	Electro Chemistry & Corrosion	Industrial application of Electrolysis-*Elecrometallurgy,*Electroplating,*Electrolytic Refining,Primary Cell(Dry Cell),Secondary Cell(Lead Acid Storage Battery)		
6th (10 Nov17 Nov.)		Corrosion with types of Corrosion,H2 libration & O2 absorption mechanism of electrochemic corrosion,Internal & External Corrision preventive measures.		
7th (18 Nov24 Nov.)	Engineering Materials	Natural Occurance of metals-mineral, ores of iron, aluminium & copper, gangue, flux, slag, metallurgy (a) Crushing & Grinding (b) Concentration of Ore (c) Extraction (d) Refining.		
8th (25 Nov1 Dec.)		Extraction of Iron from Haematite Ore, Definition of Alloys, Purpose of making alloys, Types of alloys with suitable examples, properties and applications.		
9th (2 Dec8 Dec.)		Classification of Hard Water & Soft Water, Salts causing hardness of water, Unit of hardnes (mg/l and ppm), simple numericals of water hardness, Causes of poor lathering of soa in hard water, Disadvantages of using hard water in boilers.		
10th (9 Dec16 Dec.)		Water Softening Techniques (Zeolite Process), Municipal Water treatment- Sedimentation, coagulation, filtration, sterlization Properties of water used for drinking & cooking purpose, Indian Standard Specification of drinking water.		
11th (17Dec23Dec.)	Fuels	Definition-Fuels, Combustion, Classification of fuels, Calorific Value (HCV& LCV), Calculation HCV & LCV using Dulong's Formula, Characteristic of Good Fuel, Octane number & Cetan Number, Chemical compostion, calorific value and applications of LPG, CNG, Water Gas, Produer Gas, Biogas		
12th (24Dec31Dec.)		Function & Characteristic properties of Good Lubricants, Classification with examples, Lubrica Mechanism-Hydrodynamic & Boundary Lubrication.		
13th (9 Jan14 Jan.)		Physical Properties (Viscosity & Viscosity Index,Oiliness,Flash & Fire Point),Chemical Properties(coke number,acid number,sapanification value) of Lubricants		
14th (16 Jan20 Jan.)	Polymers	Monomers,Homo & Co Ploymers,Degree of polymerization,Themoplastics & Thermosetting Plastics (using polythene,PVC,PS,PTFE,NYLON 66,Bakelite)Vulkanization of rubber & properties of Vulcanised rubber		

Signature of Subject Teacher

Signature of HOD

LESSON PLAN

			Deepa Kapoor	
Name of Faculty				
Department			Applied Science & Humanities 1st	
Semester				
Subject			Communication Skills in English	
Lesson Plan for th		1	1st oct. to 20 Jan.2023	
Week	Topic		Details Of Topics	
1st(1oct 4 oct.)	Orientation programme	Orientatio	n programme	
2nd(6 oct13 oct.)	Basic of Communication	Introduction ,definition, meaning , Process of Communication etc.		
3rd(14oct - 20 oct)	Types of Communication	Formal ,Informal,Verbal,Non verbal and written barriers of effective communication		
4th(21oct 2Nov.)	7Cs for effective communic	considerate,concrete,concise,clear,complete,correct,courteous.		
5th(3Nov9Nov.)	Art of effective communicat	Choosing words,voice,modulation,clarity,time,simplification of words, technical communication		
6th(10Nov 17Nov.)	Soft skills for professional Excellence	Introduction	on: Soft skill and Hard skill, importance of soft skills .	
7th(18Nov 24Nov.)	Life skills	Self awareness and self analysis,adaptability,resilience,emotional intelligence and empathy etc.		
8th(25Nov 1Dec.)	Life skills	Applying soft skills across cultures ,case studies.		
9th(2Dec8Dec.)	Short stories	The Gift of JeromeK.	f Magi by O.Henry,Uncle Podger Hangs a picture by Jerome.	
10th(9Dec 16Dec.)	Poetry		ne Scorpion by Nissim Ezekiel,Stopping by Woods on a ening by Robert Frost.	
11th(17Dec 23Dec.)	Poetry	Where the	e mind is without fear by Rabindranath Tagore.	
12th(24Dec 31Dec.)	Professional Writing		precis writing,Business and personal letters,drafting e- es,minutes of the meeting .	
13th(9Jan 14Jan.)	Vocabulary and Grammar		of administrative terms(English and Hindi), one word on,idioms and phrases etc.	
14th(16Jan 20Jan).	Vocabulary and Grammar	Part of sp	eech, active passive voice, tenses , Punctuation etc.	

Signature of HOD

Signature of Subject Teacher

Lesson Plan

Applied Science & First Subred Sports & Yoga			Cosses Chand	
Semester Singled Sports & Yoga	Name of Faculty	Saroop Chand		
Sports & Yoga				
Lesson Plan for the Duration Topic Details of Topics Details of Topics Strict - 4 Oct. Orientation programme Orientation				
Duration Totic Duration Totic Details Of Topics	Subject	Sports & Yoga		
Week Topic		1st Oct. 2022 to 20 Jan.2023		
11th(17 Dec3 Dec.) Orientation programme Orientation programme Education Orientation programme Education Orientation programme Education Orientation programme Education Orientation Origination Origi		Tonic	Details Of Tonics	
Introduction to Physical Education Aims & Objectives of Physical Education (Introduction to Physical Education Aims & Objectives of Physical Education (Introduction Aims & Objectives of Physical Education (Introduction Aims & Objectives of Physical Education) (Introduction Aims & Objectives of Physical Education) (Introduction (Indig) (Introduction (Indig) (Introduction (Indig)) (Indig) (Introduction (Indig)) (Indig) (Introduction (Indig)) (Indig) (Introduction (Indig)) (Indig) (
Education Education Education Education Education Physical Education Ancient & Modern Olympics (Summer & Winter) Olympic Symbols, Ideals, Objectives & Values Awards and Honours in the field of Sports in India(Dronachan) Award, Anjuna Award, Dhayanchand Award, Rajiv Gandhi Khel Ratha Award etc.) Wellines & Lifestyle Swellness &	1st(1Oct 4 Oct.)			
Ancient & Modern Olympics (Summer & Winter) Olympic Symbols, Ideals, Values Awards and Honours in the field of Sports in India/Dronachany Award, Arjuna Award, Arjuna Award, Phayanchand Award, Rajiv Gandhi Khel Ratna Award etc.) Wellness & Lifestyle Fundamentals of Antomy & Physical Fitness. Wellness & Lifestyle Fundamentals of Antomy & Physical Fitness. Physical Education, Physical Education, Physical Education, Physical Education, Physical Education, Sports and Yoga 6th(10 Nov17 Nov.) Kinesiology, Biomechanics & Sports Meaning & Importance of Kinesiology & Biomechanics in Physical Education, Sports and Yoga Meaning & Importance of Kinesiology & Biomechanics in Physical Education, Sports and Yoga and Its effects in Sports. Meaning and Concept of Postures. Causes of Bad Posture Advantages & disadvantages of weight training. Concept & advantages of Correct Posture. Candom Postural Deformities — Knock Knee, Flat Foot, Round Shoulder Lordosis, Ky- phosis, Bow Legs and Scollosis. Corrective Measures for Postural Deformities — Modern Great Posture and Muktasana, Padman Muktasana, Padmansana & Shas-shankasana). Relaxation Techniques for improving concentration to Aganas, Ardh Matsyendrasana, Walrasana, Padria Matsyendrasana, Matyasana, Padria Matsyendrasana, Walrasana, Padria Matsyendrasana, Matyasana, Padria Matsyendrasana, Matyasana, Padria Matsyendrasana, Matyasana, Padria Matsyendrasana, Matyasana, Procedure, Benefits & contraindications for Valgrasana, Hastasana, Pravanthus Matsyendrasana, Matyasana, Procedure, Benefits & contraindications for Sukhasana, Padria Matsyendrasana, Matyasana, Procedure, Benefits & contraindications for Sukhasana, Padria Matsyendrasana, Matyasana, Procedure, Benefits & contraindications for Sukhasana, Padria Matsyendrasana, Matyasana, Procedure, Benefits & contraindications for Sukhasana, Padria Matsyendrasana, Matyasana, Procedure, Benefits	2nd(6 Oct13 Oct.)			
### with(21 Oct - 2 Nov.) ### physical Fitness, Wellness & Lifestyle ### Wellness & Lifestyle ### Endamentals of Anatomy & Physical Education, Sports and Yoga ### Endamentals of Anatomy & Physical Education, Sports and Yoga ### Endamentals of Anatomy & Physical Education, Sports and Yoga ### Endamentals of Anatomy & Physical Education, Sports and Yoga ### Endamentals of Wellness And Yoga ### Endamentals of Manatomy & Physical Education, Sports and Yoga ### Endamentals of Wellness And Yoga ### Endamentals of Manatomy Physical Education, Sports and Yoga ### Endamentals of Wellness And Yoga ### Endamentals of Manatomy Physical Education, Sports And Yoga ### Endamentals of Wellness And Yoga ### Endamentals of Manatomy Physical Education, Sports And Yoga ### Endamentals of Wellness And Yoga ### Endamentals of Manatomy Physical Education, Sports And Yoga ### Endamentals of Manatomy Physical Education, Sports And Yoga ### Endamentals of Manatomy Physical Education, Sports And Yoga ### Endamentals of Manatomy Physical Education, Sports And Yoga ### Endamentals of Physical Education, Sports And Yoga ### Endamentals of Manatomy Physical Education, Sports And Yoga ### Endamentals of Physical Education, Physical Education, Sports And Yoga ### Endamentals of Physical Education, Physical Education, Sports And Yoga ### Endamentals of Physical Education, Physical Education, Sports And Yoga ### Endamentals of Physical Education, Physical Education, Sports And Yoga ### Endamentals of Physical Education, Sports Physical Education, Physical Education, Sports Physical Education, Spo	3rd(14 Oct - 20 Oct)	,	Ancient & Modern Olympics (Summer & Winter.) Olympic Symbols, Ideals, Objectives & Values.Awards and Honours in the field of Sports in India(Dronacharya Award, Arjuna Award, Dhayanchand Award, Rajiv Gandhi Khel Ratna Award etc.)	
Anatomy & Physiology in Physiology in Physiology in Physiola Education, Sports and Yoga Sth(10 Nov17 Nov.) Sports and Yoga Sth(10 Nov17 Nov.) Simesiology, Biomechanics & Sports Meaning and Concept of Postures. Causes of Bad Posture. Advantages & disadvantages of weight training. Concept & advantages of Correc Posture. Common Postural Deformities – Knock Knee; Flat Foot, Round Shoulder Lordosis, Kry-phosis, Bow Legs and Scoliosis. Corrective Measures for Postural Deformities Meaning and Posture. Yoga Posture	4th(21 Oct 2 Nov.)		Components of Physical fitness.Components of Health related fitness. Components of wellness. Preventing Health Threats through Lifestyle Change. Concept of Positive Lifestyle.	
Striction Stri	5th(3 Nov9 Nov.)	Anatomy & Physiology in Physical Education,	of Various Body Systems. (Circulatory System, Respi- ratory System, Neuro-Muscular System etc.).	
Advantages & disadvantages of weight training. Concept & advantages of Correc Posture. Common Postural Deformities – Knock Knee; Flat Foot; Round Shoulder Lordosis, Ky- phosis, Bow Legs and Scoliosis. Corrective Measures for Postural Deformities 8th(25 Nov1 Dec.) Yoga Waening & Importance of Yoga. Elements of Yoga. Introduction - Asanas, Pranayama, Meditation & Yogic Kriyas. Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Sha-shankasana). Relaxation Techniques for improving concentration Yognidra. Asanas as preventive measures: Hypertension: Tadasana, Vajrasana, Pavan Muktasana, Ardha, Chakrasana, Bhujangasana, Sharasana, Pavan Muktasana, Ardha, Chakrasana, Bhujangasana, Trikonasana, Ardh Matsyendrasana. Back Pain: Tadasana, Ardh Matsyendrasana. Back Pain: Tadasana, Bhujangasana, Trikonasana, Ardh Matsyendrasana, Ardha, Chakrasana, Ghalpiangasana, Paschimottasana, Ardh Matsyendrasana. Ashama: Procedure, Benefits & contraindications for Validadications for Validadications for Validadications for Sukhasana, Chakrasana, Ghujangasana, Paschimottasana, Ardh Matsyendrasana. Ashama: Procedure, Benefits & contraindications for Sukhasana, Pavan Muktasar Ardh Matsyendrasana. Ashama: Procedure, Benefits & contraindications for Sukhasana, Pavan Muktasar Ardh Matsyendrasana. Ashama: Procedure, Benefits & contraindications for Sukhasana, Pavatasana, Bhujangasana, Paschimottasana, Matsyesana. 10th(9 Dec16 Dec.) Training and Planning in Sports Psychology & Sports Meaning of Training. Warming up and limbering down. Skill, Technique & Style. Meaning and Objectives of Planning. Tournament – Knock-Out, League/Round Robin & Combination. Definition & Importance of Psychology in Physical Edu. & Sports. Define & Differentiate Between Growth & Development, Adolescent Problems & Their Management. Emotion: Concept, Type & Controlling of emotions. Meaning, Conce & Types of Aggressions in Sports. Psychological benefits of exercise. Anxiety & Fear and its effects on Sports Performance. Motivation, its	6th(10 Nov17 Nov.)		Physical Edu. & Sports.Newton's Law of Motion & its application in sports. Friction	
Pranayama, Meditation & Yogic Kriyas, Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Sha-shankasana). Relaxation Techniques for improving concentration Yognidra. Asanas as preventive measures. Hypertension: Tadasana, Vajrasana, Pavan Muktasana, Ardha, Chakrasana, Bhujangasana, Sharasana, Obesity. Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana. Back Pain: Tadasana, Ardh Matsyendrasana, Pavan Muktasana, Ardh Matsyendrasana, Vakrasana, Bhujangasana, Pavan Muktasana, Ardh Matsyendrasana, Vakrasana, Bhujangasana, Pavan Muktasana, Ardh Matsyendrasana, Vakrasana, Bhujangasana, Pavan Muktasana, Ardh Matsyendrasana, Ardh Matsyendrasana, Pavan Muktasana, Chakrasana, Gomukhasana, Pavatasana, Pavan Muktasana, Chakrasana, Gomukhasana, Pavatasana, Bhujangasana, Paschimottasana, Matsyasana. Training and Planning in Sports Meaning of Training. Warming up and limbering down. Skill, Technique & Style. Meaning and Objectives of Planning. Tournament – Knock-Out, League/Round Robin & Combination. Definition & Importance of Psychology in Physical Edu. & Sports. Define & Differentiate Between Growth & Development, Adolescent Problems & Their Management. Emotion: Concept, Type & Controlling of emotions. Meaning, Conce & Types of Aggressions in Sports. Psychological benefits of exercise. Anxiety & Fear and its effects on Sports Performance. Motivation, its type & techniques. Understanding Stress & Coping Strategies. 12th(24 Dec31 Dec.) Doping Meaning and Concept of Doping. Prohibited Substances & Methods. Side Effects of Prohibited Substances. First Aid — Definition, Aims & Objectives. Sports injuries: Classification, Causes & Prevention. Management of Injuries: Soft Tissue Injuries and Bone & Joint Injuries. Following sub topics related to any one Game/Sport of choice of student out of: Athletics, Badminton, Basketball, Chess, Cricket, Kabaddi, Lawn Tennis, Swimmin Table Tennis, Volleybell, I Yoga etc. History of the Game/Sport. Latest General Rule	7th(18 Nov24 Nov.)	Postures	Advantages & disadvantages of weight training. Concept & advantages of Correct Posture. Common Postural Deformities – Knock Knee; Flat Foot; Round Shoulders; Lordosis, Ky- phosis, Bow Legs and Scoliosis. Corrective Measures for Postural	
Muktasana, Ardha, Chakrasana, Bhujangasana, Sharasana. Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana, Back Pain: Tadasana, Ardh Matsyendrasana, Nakrasana, Shalabhasana, Bhujangasana. Diabetes: Procedure, Benefits & contraindications for Bhujangasana, Paschimottasana, Pavan Muktasar Ardh Matsyendrasana, Asthema: Procedure, Benefits & contraindications for Sukhasana, Chakrasana, Shalabhasana, Paschimottasana, Pavan Muktasar Ardh Matsyendrasana, Asthema: Procedure, Benefits & contraindications for Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottasana, Matsyasana. 10th(9 Dec16 Dec.) Training and Planning in Sports Meaning of Training. Warming up and limbering down. Skill, Technique & Style. Meaning and Objectives of Planning. Tournament – Knock-Out, League/Round Robin & Combination. Definition & Importance of Psychology in Physical Edu. & Sports. Define & Differentiate Between Growth & Development, Adolescent Problems & Their Management. Emotion: Concept, Type & Controlling of emotions. Meaning, Conce & Types of Aggressions in Sports. Psychological benefits of exercise. Anxiety & Fear and its effects on Sports Performance. Motivation, its type & techniques. Understanding Stress & Coping Strategies. 12th(24 Dec31 Dec.) Doping Meaning and Concept of Doping. Prohibited Substances & Methods. Side Effects of Prohibited Substances. First Aid — Definition, Aims & Objectives. Sports injuries: Classification, Causes & Prevention. Management of Injuries: Soft Tissue Injuries and Bone & Joint Injuries. Following sub topics related to any one Game/Sport of choice of student out of: Athletics, Badminton, Basketball, Chess, Cricket, Kabaddi, Lawn Tennis, Swimmin Table Tennis, Volleyball, Yoga etc. History of the Game/Sport. Specifications of Play Fields and Related Sports Equipment. Important Tournaments and Venues. Sports Personalities. Proper Sports Gear and	8th(25 Nov1 Dec.)	Yoga	Pranayama, Meditation & Yogic Kriyas. Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Sha-shankasana). Relaxation Techniques for improving concentration Yognidra.	
10th(9 Dec16 Dec.) Iraning and Planning in Sports Style.Meaning and Objectives of Planning. Tournament – Knock-Out, League/Round Robin & Combination. Definition & Importance of Psychology in Physical Edu. & Sports. Define & Differentiate Between Growth & Development, Adolescent Problems & Their Management. Emotion: Concept, Type & Controlling of emotions. Meaning, Conce & Types of Aggressions in Sports. Psychological benefits of exercise. Anxiety & Fear and its effects on Sports Performance. Motivation, its type & techniques. Understanding Stress & Coping Strategies. 12th(24 Dec31 Dec.) Doping Meaning and Concept of Doping. Prohibited Substances & Methods. Side Effects on Prohibited Substances. First Aid – Definition, Aims & Objectives. Sports injuries: Classification, Causes & Prevention.Management of Injuries: Soft Tissue Injuries and Bone & Joint Injuries. Following sub topics related to any one Game/Sport of choice of student out of: Athletics, Badminton, Basketball, Chess, Cricket, Kabaddi, Lawn Tennis, Swimmin Table Tennis, Volleyball, Yoga etc.History of the Game/Sport. Latest General Rule of the Game/Sport.Specifications of Play Fields and Related Sports Equipment. Important Tournaments and Venues. Sports Personalities. Proper Sports Gear and	9th(2 Dec8 Dec.)	Yoga & Lifestyle	Muktasana, Ardha, Chakrasana, Bhujangasana, Sharasana. Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh Matsyendrasana. Back Pain: Tadasana, Ardh Matsyendrasana, Vakrasana, Shalabhasana, Bhujangasana. Diabetes: Procedure, Benefits & contraindications for Bhujangasana, Paschimottasana, Pavan Muktasana, Ardh Matsyendrasana. Asthema: Procedure, Benefits & contraindications for Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana,	
Differentiate Between Growth &Development, Adolescent Problems & Their Management. Emotion: Concept, Type & Controlling of emotions. Meaning, Conce & Types of Aggressions in Sports. Psychological benefits of exercise. Anxiety & Fear and its effects on Sports Performance. Motivation, its type & techniques. Understanding Stress & Coping Strategies. 12th(24 Dec31 Dec.) Doping Doping Meaning and Concept of Doping. Prohibited Substances & Methods. Side Effects of Prohibited Substances. First Aid – Definition, Aims & Objectives. Sports injuries: Classification, Causes & Prevention. Management of Injuries: Soft Tissue Injuries and Bone & Joint Injuries. Following sub topics related to any one Game/Sport of choice of student out of: Athletics, Badminton, Basketball, Chess, Cricket, Kabaddi, Lawn Tennis, Swimmin Table Tennis, Volleyball, Yoga etc. History of the Game/Sport. Latest General Rule of the Game/Sport. Specifications of Play Fields and Related Sports Equipment. Important Tournaments and Venues. Sports Personalities. Proper Sports Gear and	10th(9 Dec16 Dec.)	Training and Planning in	Style.Meaning and Objectives of Planning. Tournament – Knock-Out, League/Round Robin &Combination.	
Prohibited Substances. 13th(9 Jan14 Jan.) Sports Medicine First Aid – Definition, Aims & Objectives. Sports injuries: Classification, Causes & Prevention.Management of Injuries: Soft Tissue Injuries and Bone & Joint Injuries. Following sub topics related to any one Game/Sport of choice of student out of: Athletics, Badminton, Basketball, Chess, Cricket, Kabaddi, Lawn Tennis, Swimmin Table Tennis, Volleyball, Yoga etc. History of the Game/Sport. Latest General Rule of the Game/Sport.Specifications of Play Fields and Related Sports Equipment. Important Tournaments and Venues. Sports Personalities. Proper Sports Gear and	11th(17 Dec23 Dec.)	Psychology & Sports	Differentiate Between Growth &Development, Adolescent Problems & Their Management. Emotion: Concept, Type & Controlling of emotions. Meaning, Concept & Types of Aggressions in Sports. Psychological benefits of exercise. Anxiety & Fear and its effects on Sports Performance. Motivation, its type & techniques. Understanding Stress & Coping Strategies.	
Prevention.Management of Injuries: Soft Tissue Injuries and Bone & Joint Injuries. Following sub topics related to any one Game/Sport of choice of student out of: Athletics, Badminton, Basketball, Chess, Cricket, Kabaddi, Lawn Tennis, Swimmin Table Tennis, Volleyball, Yoga etc.History of the Game/Sport. Latest General Rule of the Game/Sport.Specifications of Play Fields and Related Sports Equipment. Important Tournaments and Venues. Sports Personalities. Proper Sports Gear and	12th(24 Dec31 Dec.)	Doping	Meaning and Concept of Doping. Prohibited Substances & Methods. Side Effects of Prohibited Substances.	
Athletics, Badminton, Basketball, Chess, Cricket, Kabaddi, Lawn Tennis, Swimmin Table Tennis, Volleyball, Yoga etc.History of the Game/Sport. Latest General Rule of the Game/Sport.Specifications of Play Fields and Related Sports Equipment. Important Tournaments and Venues. Sports Personalities. Proper Sports Gear and	13th(9 Jan14 Jan.)	Sports Medicine	First Aid – Definition, Aims & Objectives. Sports injuries: Classification, Causes & Prevention.Management of Injuries: Soft Tissue Injuries and Bone & Joint Injuries.	
its Importance	14th(16 Jan20 Jan).	Sports / Games	Athletics, Badminton, Basketball, Chess, Cricket, Kabaddi, Lawn Tennis, Swimming, Table Tennis, Volleyball, Yoga etc. History of the Game/Sport, Latest General Rules	

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Saroop Chand