Name of Faculty		LESSON PLAN Ankush Bharti
Department		Ankush Bharti Applied Science & Humanities
Semester		First
Subject		Sports and Yoga
Lesson Plan for the	Duration	10 August-04 December 2023
Week	Topic	Details Of Topics
1st (10 Aug -19 Aug.)	· Student's Induction	Activities under Orientation Programme
2nd	Introduction to Physical	Meaning & definition of Physical Education, Aims & Objectives of Physical
(21 Aug27 Aug.)	Education	Education, Changing trends in Physical Education.
3rd (28 Aug02 Sept.)	Olympic Movement	Ancient & Modern Olympics (Summer & Winter), Olympic Symbols, Ideals, Objectives & Values, Awards and Honours in the field of Sports in India
4th (04 Sept12 Sept.)	Physical Fitness, Wellness & Lifestyle	Meaning & Importance of Physical Fitness & Wellness, Components of Physical fitness, Components of Health related fitness, Components of wellness, Preventing Health Threats through Lifestyle Change, Concept of Positive Lifestyle.
5th (13 Sept19 Sept.)	Fundamentals of Anatomy & Physiology in Physical Education, Sports and Yoga	Define Anatomy, Physiology & Its Importance, Effect of exercise on the functioning of Various Body Systems. (Circulatory System, Respi- ratory System, Neuro-Muscular System etc.)
6th (20 Sept26 Sept.)	Kinesiology, Biomechanics & Sports	Meaning & Importance of Kinesiology & Biomechanics in Physical Edu. & Sports, Newton's Law of Motion & its application in sports, Friction and its effects in Sports.
7th (27 Sept04 Oct.)	Postures	Meaning and Concept of Postures, Causes of Bad Posture, 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 Deformities
8th (05 Oct11 Oct.)	Yoga	Meaning & 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.
9th (12 Oct19 Oct.)	Yoga & Lifestyle	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, Vakrasana, Shalabhasana, Bhujangasana, Diabetes: Procedure, Benefits & contraindications for Bhujangasana, Paschimottasana, Pavan Muktasana, Ardh Matsyendrasana, Asthema: Procedure, Benefits & contraindications for Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottasana, Matsyasana.
10th (20 Oct30 Oct.)	Training and Planning in Sports	League/Round Robin & Combination.
11th (31 Oct06 Nov.)	Psychology & Sports	Definition & Importance of Psychology in Physical Edu. & Sports, Define & 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.
12th (13 Nov18 Nov.)	Doping	Meaning and Concept of Doping, Prohibited Substances & Methods, Side Effects of Prohibited Substances
13th (20 Nov25 Nov.)	Sports Medicine	First Aid – Definition, Aims & Objectives, Sports injuries: Classification, Causes & Prevention, Management of Injuries: Soft Tissue Injuries and Bone & Joint Injuries.
14th (28 Nov04 Dec.)	Sports/ Games	Following sub topics related to any one Game/Sport of choice of student out of: Athletics, Badminton, Basketball, Chess, Cricket, Kabaddi, Lawn Tennis, Swimming, Table Tennis, Volleyball, Yoga etc., History of the Game/Sport, Latest General Rules of the Game/Sport.

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Signature of Subject Teacher

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ame of Faculty		Anil Rewal & Saroop Chand
epartment		Applied Science & Humanities
emester		1st
ubject		Applied Physics-I
esson Plan for the Du	ration	10 August-04 December 2023
Week	Topic	Details Of Topics
1st (11 Aug -19 Aug.)		Orientation Programme
2nd (21 Aug26 Aug.)		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,
3rd (28 Aug02 Sept.)	Units and Measurements	Dimensional equations and their applications (conversion from one system of units to othe 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 (04 Sept -12 Sept.)		Scalar and Vector quantities – examples, representation of vector, types of vectors. Addition and Subtraction of Vectors, Triangle and Parallelogram law (Statement only),
5th (13 Sept19 Sept.)		Scalar and Vector Product, Resolution of a Vector and its application to inclined plane (Rectangular components) and lawn roller. Force, Momentum, Statement and derivation of conservation of linear momentum, its applications such as recoil of gun &rockets, Impulse and its applications.
6th (20 Sept26 Sept.)		Circular motion, definition of angular displacement, angular velocity, angular acceleration, frequency, time period. 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 (27 Sept04 Oct.)		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. Energ and its units, kinetic energy, gravitational potential energy with examples and derivations,
8th (05 Oct11 Oct.)		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 (12 Oct19 Oct.)		Translational and rotational motions with examples. Definition of torque and angular momentum and their examples. Conservation of angular momentum (quantitative) and its applications.
10th (20 Oct30 Oct.)		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).
11th (31 Oct05 Nov.)		Elasticity: Definition of stress and strain, different types of modulii of elasticity, Hooke's law significance of stress-strain curve. 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),
12th (13 Nov18 Nov.)		applications of surface tension, effect of temperature and impurity on surface tension.
13th (20 Nov25 Nov.)	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.
14th (28 Nov04 Dec.)		Expansion of solids, liquids and gases, coefficient of linear, surface and cubical expansions and relation amongst them, Co-efficient of thermal conductivity.

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me of Faculty		Anil Rewal & Saroop Chand
epartment		Applied Science & Humanities
emester		1st Applied Physics-I
bject		Applied Physics-I 10 August-04 December 2023
sson Plan for the Dura		Details Of Topics
Week	Topic	
1st (11 Aug -19 Aug.)		Orientation Programme
2nd (21 Aug26 Aug.)		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,
3rd (28 Aug02 Sept.)	Units and Measurements	Dimensional equations and their applications (conversion from one system of units to othe 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 (04 Sept12 Sept.)		Scalar and Vector quantities – examples, representation of vector, types of vectors. Addition and Subtraction of Vectors, Triangle and Parallelogram law (Statement only),
5th (13 Sept19 Sept.)		Scalar and Vector Product, Resolution of a Vector and its application to inclined plane (Rectangular components) and lawn roller. Force, Momentum, Statement and derivation of conservation of linear momentum, its applications such as recoil of gun &rockets, Impulse and its applications.
6th (20 Sept26 Sept.)		Circular motion, definition of angular displacement, angular velocity, angular acceleration, frequency, time period. 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 (27 Sept04 Oct.)		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. Energ and its units, kinetic energy, gravitational potential energy with examples and derivations,
8th (05 Oct11 Oct.)		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 (12 Oct19 Oct.)		Translational and rotational motions with examples. Definition of torque and angular momentum and their examples. Conservation of angular momentum (quantitative) and its applications.
10th (20 Oct30 Oct.)		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).
11th (31 Oct05 Nov.)		Elasticity: Definition of stress and strain, different types of modulii of elasticity, Hooke's law significance of stress-strain curve. 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),
12th (13 Nov18 Nov.)		applications of surface tension, effect of temperature and impurity on surface tension.
13th (20 Nov25 Nov.)		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.
14th (28 Nov04 Dec.)		Expansion of solids, liquids and gases, coefficient of linear, surface and cubical expansions and relation amongst them, Co-efficient of thermal conductivity.

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		LESSON PLAN
Name of Faculty		RAJNI SHARMA
Department		Applied Sciences And Humanities
Semester		1st
Subject		Mathematics- I
Lesson Plan for the	Duration	10 August-04 December 2023
Week		Topic
1st (11 Aug -19 Aug.)		Orientation Programme
2nd (21 Aug26 Aug.)	Trigonometry	Concept of angles, measurement of angles in degrees, grades and radians and their conversions.
3rd (28 Aug02 Sept.)	Trigonometry	T-Ratios of Allied angles (without proof), Sum, difference formulae and their applications (without proof)
4th (04 Sept12 Sept.)	Trigonometry	Product Formulae (Transformation of Product to Sum ,Difference and vice - versa),T-Ratio of multiple angles, sub multiple angles (2A,3A,A/2).Graphs of sin x, cos x.
5th (13 Sept19 Sept.)	Differential Caiculus	Definition of function ,Concept of limits .Four standard limits
6th (20 Sept26 Sept.)	Differential Caiculus	Differentiation by definition of x , $\sin x$, $\cos x$, $\tan x$, e . Differentiation of sum ,Product of functions .
7th (27 Sept04 Oct.)	Differential Caiculus	Differentiation of quotient of function, Differentiation of function of a function
8th (05 Oct11 Oct.)	Differential Caiculus	Differentiation of trigonometric and inverse trigonometric function, Logarithmic differentiation.
9th (12 Oct19 Oct.)	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 (20 Oct30 Oct.)	Algebra	Modulus and Amplitude of a complex number. Addition, Subtraction, Multiplication and Division of a complex number. De- movier's theorem, its application.
11th (31 Oct06 Nov.)	Algebra	Partial Fractions: Definition of polynomial fraction proper & improper fractions and definition of partial fractions. To resolve proper into partial fraction with denominator containing non- repeated linear factors, repeated linear factors
12th (13 Nov18 Nov.)	Algebra	Value of P(n,r) and C(n,r)
13th (20 Nov25 Nov.)	Algebra	Binomial theorem: Binomial theorem (without proof) for positive integral index (expansion and general form) binomial theorem for any index (expansion without proof).
14th (28 Nov04 Dec.)	Algebra	First and second binomial approximation with applications

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		LESSON PLAN
Name of Faculty		Ankaj Thakur
Department		Applied Science & Humanities
Semester		1st
Subject		Applied Chemistry
Lesson Plan for the	Duration	10 August-04 December 2023
Week	Topic	Details Of Topics
1st (11 Aug -19 Aug.)		Orientation Programme
2nd (21 Aug26 Aug.)	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 (28 Aug02 Sept.)	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 (04 Sept12 Sept.)		Electronic Concept of Oxidation ,Reduction & Redox Reactions,Definition-Electrolytes,Non-Electrolytes with examples,Faraday's Law of Electrolysis with simple numerical problems.
5th (13 Sept19 Sept.)	Electro Chemistry & Corrosion	Industrial application of Electrolysis-*Elecrometallurgy,*Electroplating,*Electrolytic Refining,Primary Cell(Dry Cell),Secondary Cell(Lead Acid Storage Battery)
6th (20 Sept26 Sept.)		Corrosion with types of Corrosion, H2 libration & O2 absorption mechanism of electrochemical corrosion, Internal & External Corrision preventive measures.
7th (27 Sept04 Oct.)	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 (05 Oct11 Oct.)		Extraction of Iron from Haematite Ore, Definition of Alloys, Purpose of making alloys, Types of alloys with suitable examples, properties and applications.
9th (12 Oct19 Oct.)	Water	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 soap in hard water, Disadvantages of using hard water in boilers.
10th (20 Oct30 Oct.)		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 (31 Oct06 Nov.)	Fuels	Definition-Fuels, Combustion, Classification of fuels, Calorific Value (HCV& LCV), Calculation of HCV & LCV using Dulong's Formula, Characteristic of Good Fuel, Octane number & Cetane Number, Chemical compostion, calorific value and applications of LPG, CNG, Water Gas, Produer Gas, Biogas
12th (13 Nov18 Nov.)		Function & Characteristic properties of Good Lubricants, Classification with examples, Lubricant Mechanism-Hydrodynamic & Boundary Lubrication.
13th (20 Nov25 Nov.)	[[여] 성원하고 있으면서 다시 하다 하나 있다면서 하는데 하는데 하는데 하는데 하는데 없어 되었다.	Physical Properties (Viscosity & Viscosity Index, Oiliness, Flash & Fire Point), Chemical Properties (coke number, acid number, sapanification value) of Lubricants
14th (28 Nov04 Dec.)	Polymers	Monomers, Homo & Co Ploymers, Degree of polymerization, Themoplastics & Thermosetting Plastics (using polythene, PVC, PS, PTFE, NYLON 66, Bakelite) Vulkanization of rubber & properties of Vulcanise rubber

Signature of Subject Teacher

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Name of Faculty			Deepa Kapoor
Department			ce & Humanities
Semester			1st
Subject			Skills in English
Lesson Plan for the Durat	tion		o 4 December 2023
Week			
1st (11 Aug -19 Aug.)		Orientation Programme	
2nd (21 Aug26 Aug.)	Basic of Communication	Introduction, definition, meaning, Process of C	ommunication etc.
3rd 8 Aug02 S	Types of communication	Formal ,Informal,Verbal,Non verbal and written	barriers of effective communication
4th Sept12	7Cs for effective communication	considerate,concrete,concise,clear,complete,considerate	orrect, courteous.
5th 19	Art of effective communication	Choosing words,voice,modulation,clarity,time,s	implification of words, technical communication
6th (20 Sept26 Sept.)	Soft skills for professional Excellence	Introduction: Soft skill and Hard skill, importanc	e of soft skills .
7th (27 Sept04 Oct.)	Life skills	Self awareness and self analysis, adaptability, re	esilience,emotional intelligence and empathy ect.
0	Life skills	Applying soft skills across cultures ,case studie	S.
)th 19	Short stories	The gift of Magi by O.Henry, Uncle Podger Han	gs a picture by JeromeK.Jerome.
10th (20 Oct30 Oct.)	Poetry	Night of the Scorpion by Nissim Ezekiel, Stopping	g by Woods on a snowyEvening by Robert Frost,
11th (31 Oct06 Nov.)	Poetry	Where the mind is without fear by Rabindranat	th Tagore.
12th (13 Nov18 Nov.)	Professional Writing	The art of precis writing, Business and persona	I letters,drafting e-mail,notices,minutes of the meeting
13th (20 Nov25 Nov.)	Vocabulary and Grammar	Glossary of administrative terms(English and H	indi), one word substitution, idioms and phrases etc.
14th (28 Nov -04 Dec.)	Vocabulary and Grammar	Part of speech, tenses etc, Punctuation, Active	Passive



