I.B. (PG) COLLEGE, PANIPAT
(SESSION 2019-20)

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- Dynamics **Class: B.Sc. 3rd Year**

Name of the Teachers (Section wise): Ms. Kanak Sharma(Sec-A), Ms.Soniya(Sec-C)

WEEK	DATE	TOPICS
1	January (1 - 4)	Discussion of some basic concepts and definitions, Concept of displacement, velocity, acceleration, Conversion formulae,Motion with constant acceleration, Particle projected vertically downwards, Particle projected vertically upwards under gravity.
		SUNDAY - 05.01.2020
2	January (6-11)	Motion along a plane curve, velocity along a plane curve, acceleration along a plane curve, components of velocity and acceleration, angular veocity and angular acceleration relation between angular and linear velocity, questions related to it, concept of radial and transverse velocity and acceleration and their derivations.
		SUNDAY - 12.01.2020
3	January (13-18)	Problems based on radial and transverse velocity and acceleration, concept of tangential and normal velocity and acceleration, derivation of tangential and normal velocity, derivation of tangential and normal acceleration, questions based on it and discussion of problems.
		SUNDAY - 19.01.2020
4	January (20 -25)	Relative Displacement, Relative Velocity, determination of Relative Velocity, expression for the magnitude and direction of Relative Velocity, questions based on it and discussion of problems.
		January - 26.01.2020
5	January (27- 31) February (1)	Simple Harmonic Motion, Derivation of expression for Simple Harmonic Motion, Nature and Amplitude of Simple Harmonic Motion, periodic motion and articles based on it, frequency, questions based on Simple Harmonic Motion and discussion of problems.
		SUNDAY - 02.02.2020
6	February (3 -8)	Introduction to Newton's laws of Motion, mass momentum and force, Gravitational Force, Newton's first,second and third laws of Motion, Questions based on Newton's laws of Motion, Pressure of a body resting on a horizontal plane moving vertically upwards or downwards and related questions.

SUNDAY - 09.02.2020		
7	February (10 -15)	Motion of a lift and problems based on it, motion of two bodies connected by a string and related articles, motion on a smooth horizontal plane, motion on a rough horizontal plane, atwood's machine, questions based on it and discussion of problems.
SUNDAY - 16.02.2020		
8	February (17-22)	Projectile Motion and articles based on it, derivations for latus rectum, vertex, directrix, axis of trajectory of a projectile, time of flight, horizontal range, greatest height, directions of projection, questions based on Projectile Motion, Concept of velocity at any point of trajectory and related problems.
SUNDAY - 23.02.2020		
9	February (24-29)	Derivations for finding directions of projection for a particle to hit a given point and problems based on it, concept of range and time of flight on an inclined plane and their derivations, maximum range up the plane, questions based on it and discussion of problems.
SUNDAY - 01.03.2020		
10	March (02 -07)	Introduction to Central Orbits and derivation of theorems based it, derivation of differential equation of central orbit in polar form, derivation of differential equation of central orbit in pedal form, areal velocity and its derivation, derivation of results for elliptic orbit, hyperbolic orbit and parabolic orbit, velocity in a circle and related theorems.
SUNDAY - 08.03.2020		
11	March (09 -14)	**Holi Vacations**
SUNDAY - 15.03.2020		
12	March (16 -21)	Problems based on central orbits, apse and apsidal distances, theorems based on apse and apsidal distances,velocity from infinity, questions based on apse and apsidal distances and discussion of problems.
SUNDAY - 22.03.2020		
13	March (23-28)	Kepler's Laws of Planetary Motion-Introduction and Definitions, deductions from Kepler's Laws, theorems based on Kepler's Laws of Planetary Motion Motion under inverse square law and its derivation, questions based on Kepler's Laws of Planetary Motion and discussion of problems.

SUNDAY - 29.03.2020		
14	March (30 -31) April 1-4)	Work, its units and related articles, work done in stretching an elastic string, questions based on it, Power, articles related to power and questions based on it, Energy, principle of work and energy, conservation of energy, questions baesd on it and discussion of problems.
SUNDAY - 05.04.2020		
15	April (06 -11)	Elastic Strings, Hooke's Law and theorems based on it, horizontal elastic string and related theorems, vertical elastic string and related theorems, questions based on Elastic Strings and discussion of problems.
SUNDAY - 12.04.2020		
16	April (13-18)	Motion of a particle on smooth and rough plane curves, Motion of a particle on smooth curve in a vertical plane, problems based on it, motion on the outside of a vertical circle and questions based on it, motion on the inside of a smooth vertical circle and questions based on it.
SUNDAY - 19.04.2020		
17	April (20-25)	Cycloidal motion, motion on a cycloid and questions based on it, motion on a rough curve under gravity and problems based on it, motion of a particle in three dimensions, velocity and acceleration of a particle along a curve and its derivation, acceleration of a particle n terms of spherical polar co-ordinates and questions based on it.
SUNDAY - 26.04.2020		
18	April (27-30)	Acceleration of a particle in terms of cylindrical polar co-ordinates, velocity and acceleration of moving axes, questions based on it and discussion of problems. Revision.

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Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- INORGANIC CHEMISTRY CLASS:B.Sc 3rd year (B)

Name of the Teacher:- PROF. SHILPA

WEEK	DATE	TOPICS
1	January (1 - 4)	Acids and Bases
		Arrhenius, Bronsted-lowry, Lux-flood, solvent system and Lewis concept of acids
		and bases,
SUNDAY - 05.01.2020		
2	January (6-11)	relative strength of acids and bases, levelling solvents,
SUNDAY - 12.01.2020		
3	January (13-18)	hard and soft
		acids and bases(HSAB),
SUNDAY - 19.01.2020		
4	January (20 -25)	Applications of HSAB principle.
		Discussion on acid base concept
January - 26.01.2020		
5	January (27- 31) February (1)	**Organometallic chemistry**
		Definition, classification and nomenclature of organometallic compounds,
SUNDAY - 02.02.2020		
6	February (3 -8)	preparation, properties and bonding of alkyls of Li, Al, Hg and Sn, concept of
		hapticity of organic ligand,
SUNDAY - 09.02.2020		
7	February (10 -15)	Structure and bonding in metal-ethylenic complexes,
		Structure of Ferrocene,

SUNDAY - 16.02.2020		
8	February (17-22)	classification in metal carbonyls, preparation, properties
		and bonding in mononuclear carbonyls.
SUNDAY - 23.02.2020		
9	February (24-29)	Bio inorganic chemistry
		Metal ions present in biological system, classification on the basis of action
		(essential, non essential, trace, toxic),
SUNDAY - 01.03.2020		
10	March (02 -07)	**Metalloporphyrins with special reference to**
		haemoglobin
SUNDAY - 08.03.2020		
11	March(9-14)	
		HOLY BREAK
SUNDAY - 15.03.2020		
12	March (16 -21)	
		myoglobin , Class test
SUNDAY - 22.03.2020		
13	March (23-28)	Biological role of Na+, K+, Ca+2, Mg+2, Fe+2 ions,
		Cooperative effect
SUNDAY - 29.03.2020		
14	March (30 -31) April 1-4)	Bohr effect.
SUNDAY - 05.04.2020		
15	April (06 -11)	**Silicones and Phosphazenes**
		Nomenclature,
SUNDAY - 12.04.2020		
16	April (13-18)	classification, prepration and uses of silicones,
SUNDAY - 19.04.2020		
17	April (20-25)	elastomers,
		polysiloxane copolymers,
SUNDAY - 26.04.2020		
18	April (27-30)	poly phosphazenes and bonding in triphosphazene.

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Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- Linear Algebra Class : B.Sc. 3rd Year

Name of the Teachers (Section wise): Dr. Arpana Garg (Sec-A) , Amit (Sec-C)

WEEK	DATE	TOPICS
1	January (1 - 4)	Vector Spaces
		Definition
		Examples
SUNDAY - 05.01.2020		
2	January (6-11)	More Examples on Vector Space
		Properties of Vector Space
		Examples
		Exercise
		Problems
SUNDAY - 12.01.2020		
3	January (13-18)	Subspace
		Theorems on Subspace
		Examples
		Exercise
		Problems
SUNDAY - 19.01.2020		
4	January (20 -25)	Linear Combination
		Theorems
		Examples
		Exercise
		Sum of Spaces and Direct sum
		Examples
January - 26.01.2020		
5	January (27- 31) February (1)	Linearly Dependent and Independent Vectors
		Theorems
		Examples
		Problems
		Basis and Dimension
SUNDAY - 02.02.2020		
6	February (3 -8)	Finite Dimensional Vector Spaces
		Theorems
		Examples
		Problems
		Dimension of a Vector Space

SUNDAY - 09.02.2020		
7	February (10 -15)	Theorems
		Examples
		Problems
		Quotient Space
		Theorems
		Examples
SUNDAY - 16.02.2020		
8	February (17-22)	Homomorphism
		Kernal of a Homomorphism
		Theorems based on Homomorphism
		Linear Transformation
		Theorems
		Examples
SUNDAY - 23.02.2020		
9	February (24-29)	Problems
		Exercise
		Test
		Null Space and Range of a Linear transformation
		Theorems
SUNDAY - 01.03.2020		
10	March (02 -07)	Rank and Nullity of a linear Transformation
		Theorems
		Examples
		Algebra of a Linear Transformation
		Vector Space of Linear Transformations
		Theorems based on Homomorphism
SUNDAY - 08.03.2020		
11	March (09 -14)	**Holi Break**
		Holi Break
		Holi Break
		Holi Break
		Holi Break
		Holi Break
SUNDAY - 15.03.2020		
12	March (16 -21)	Algebra of a Linear Transformation
		Singular and Non Singular Linear Transformation
		Theorems, Examples
		Minimal Polynomial
		Theorems, Examples
SUNDAY - 22.03.2020		
13	March (23-28)	Matrix Associatted with Linear Transformation
		Theorems
		Examples
		Problems
		Transition Matrix
		Examples

SUNDAY - 29.03.2020		
14	March (30 -31) April 1-4)	Problems
		Revision
		Inner Product Space
		Examples
		Problems
SUNDAY - 05.04.2020		
15	April (06 -11)	Norm of a vector space
		Schwarz's Inequality
		Orthogonal vectors
		Gram Schmidt Orthogonal;isation process
SUNDAY - 12.04.2020		
16	April (13-18)	Bessels Inequality
		Examples
		Unitary Transformation
		Theorems
		Eigen Values and Eigen Vectors
		Examples
SUNDAY - 19.04.2020		
17	April (20-25)	Diagonaliosable Linear Operator
		Examples
		Problems
		Dual Space
SUNDAY - 26.04.2020		
18	April (27-30)	Dual Space
		Theorems
		Examples

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Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- ORGANIC CHEMISTRY CLASS:B.Sc FINAL YEAR (B)

Name of the Teachers (Section wise): PROF. ERA GARG

WEEK	DATE	TOPICS
1	January (1 - 4)	Organic Synthesis via Enolat es
		Acidity of □-hydrogens, alkylation of diethyl malonate and ethyl
		acetoacetate
SUNDAY - 05.01.2020		
2	January (6-11)	Synthesis of ethyl acetoacetate: the Claisen
		condensation. Keto-enol tautomeri sm of ethyl acetoacetate.
SUNDAY - 12.01.2020		
3	January (13-18)	Heterocyclic Compounds
		Introduc tion: Molecula r orbital pictur e and aromatic characteristics
		of pyrrole, furan, thiophene and pyridine.
SUNDAY - 19.01.2020		
4	January (20 -25)	Methods of synthesis and
		chemical reactions with pa rticular emphasi s on the mechani sm of
		electrophilic substitution. Mechanism of nucleophilic substitution
		reactions in pyridine derivatives.
January - 26.01.2020		
5	January (27- 31) February (1)	**Comparison of basicity of**
		pyridine, piperidine and pyrrole.
		Introduction to condensed five and six- membered heterocycles.
SUNDAY - 02.02.2020		
6	February (3 -8)	Prepration and
		reactions of indole, quinoline and isoquinoline with special reference to Fisher
		indole synthesis,
SUNDAY - 09.02.2020		
7	February (10 -15)	Skraup synthesis and Bischler-Napieralski synthesis. Mechanism
		of electrophilic substitution reactions of, quinoline and isoquinoline.

SUNDAY - 16.02.2020		
8	February (17-22)	Amino Acids, Peptides& Proteins
		Classification, of amino acids. Ac id-base behavior, isoelectric
		point and electrophoresis.
SUNDAY - 23.02.2020		
9	February (24-29)	Preparation of □-amino acids.
		Structur e and nomenclature of peptide s and proteins.
		Class test
SUNDAY - 01.03.2020		
10	March (02 -07)	**Classification**
		of proteins. Peptide structure determination, end group analysis,
		selective hydrolysi s of peptides.
SUNDAY - 08.03.2020		
11	March (09 -14)	
		HOLY BREAK
SUNDAY - 15.03.2020		
12	March (16 -21)	Clas sical peptide synthesis, solid–
		phase peptide synthesis.
SUNDAY - 22.03.2020		
13	March (23-28)	Structures of peptides and proteins :
		Primary & Secondary structure
SUNDAY - 29.03.2020		
14	March (30 -31) April 1-4)	Synthetic Polymers
		Addition or chain-growth polymer ization. Free radical vinyl
		polymer ization,
SUNDAY - 05.04.2020		
15	April (06 -11)	**ionic vinyl polymerizat ion, Ziegler -Natta**
		polymer ization and vinyl polymer s.
SUNDAY - 12.04.2020		
16	April (13-18)	Condensation or step growth polymer ization.
SUNDAY - 19.04.2020		

17	April (20-25)	Polyesters, polyamides, phenol formaldehyde resins.
SUNDAY - 26.04.2020		
18	April (27-30)	Natural and synthetic rubbers.

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Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- Physical Chemistry Class: B.Sc. Final year (A,B)

Name of the Teachers (Section wise): Prof. Vikram Kumar

WEEK	DATE	TOPICS
1	January (1 - 4)	
		Introduction to statistical mechanics
		Need for statistical thermodynamics
SUNDAY - 05.01.2020		
2	January (6-11)	
		thermodynamic probability, Maxwell
		Boltzmann distribution statistics
SUNDAY - 12.01.2020		
3	January (13-18)	
		Born oppenheimer approximation, partition
		function
SUNDAY - 19.01.2020		
4	January (20 -25)	
		partition
		function and its physical significance
January - 26.01.2020		
5	January (27- 31) February (1)	
		Factorization of partition function
		numerical problems on partition function
SUNDAY - 02.02.2020		
6	February (3 -8)	
		Photochemistry
		Interaction of radiation with matter, difference between thermal and
		photochemical processes

SUNDAY - 09.02.2020		
7	February (10 -15)	
		Laws of photochemistry: Grotthus-Drapper law, Stark-
		Einstein law (law of photochemical equivalence), Jablonski diagram depiciting
		various processes occurring in the excited state
SUNDAY - 16.02.2020		
8	February (17-22)	
		qualitative description of
		fluorescence, phosphorescence, non-radiative processes (internal conversion,
		intersystem crossing),
SUNDAY - 23.02.2020		
9	February (24-29)	
		quantum yield, photosensitized reactions-energy transfer
		processes (simple examples
SUNDAY - 01.03.2020		
10	March (02 -07)	
		Solutions, Dilute Solutions and Colligative Properties
		Ideal and non-ideal solutions, methods of expressing concentrations of solutions,
		Dilute solutions,
SUNDAY - 08.03.2020		
11	March (09 -14)	
		Holi break
SUNDAY - 15.03.2020		
12	March (16 -21)	
		Raoult's law. Colligative properties: (i) relative lowering of
		vapour pressure (ii) Elevation in boiling point (iii) depression in freezing point
		(iv) osmotic pressure.
SUNDAY - 22.03.2020		
13	March (23-28)	
		Thermodynamic derivation of relation between amount of
		solute and elevation in boiling point and depression in freezing point..
SUNDAY - 29.03.2020		

14	March (30 -31) April 1-4)	
		Applications in calculating molar masses of normal, dissociated and associated
		solutes in solution
		class test
SUNDAY - 05.04.2020		
15	April (06 -11)	
		Phase Equillibrium
		Statement and meaning of the terms – phase, component and degree of freedom,
SUNDAY - 12.04.2020		
16	April (13-18)	
		thermodynamic derivation of Gibbs phase rule, phase equilibria of one component
		system –Example – water system
SUNDAY - 19.04.2020		
17	April (20-25)	
		Phase equilibria of two component systems solid-liquid equilibria,
SUNDAY - 26.04.2020		
18	April (27-30)	
		simple eutectic
		Example Pb-Ag system, desilverisation of lead.

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Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- REAL AND COMPLEX ANALYSIS Class: B.Sc. 3rd Year

Name of the Teachers (Section wise): Ms. Anchal Jain (Sec-A) , Ms. Gitika(Sec-C)

WEEK	DATE	TOPICS
1	January (1 - 4)	Jacobian:Basic definitions,chain rule for Jacobian
		Examples based on Jacobian
		Functional dependence,theorems ,results and examples for functional
		dependence and independent
SUNDAY - 05.01.2020		
2	January (6-11)	Beta and Gamma Functions:Basic definitions, Properties of Beta Functions
		examples of Beta Functions
		Gamma function: Defination , its representation
		Recurrence formula for gamma function
		Relation between Beta & Gamma funtions,examples based on it and discussion of
		problems
SUNDAY - 12.01.2020		
3	January (13-18)	Duplication formula, results and examples based on it.
		Double & Triple Integrals: Basic Theory, Evaluation of double integrals and
		examples based on it.
		Substitution Method for Double Integral,examples based on it and discussion
		of problems.
		Triple Integral,examples based on it
SUNDAY - 19.01.2020		
4	January (20 -25)	Substitution method for Triple Integrals,examples based on it
		Applications of Double & Triple Integrals for finding area and volume of surfaces
		and examples based on it. Dirichlet's Integral, theorem and examples based on it.
		Liouville's Extension and examples based on it.
		Change of Integration and examples based on it and discussion of problems
January - 26.01.2020		
5	January (27- 31) February (1)	Fourier Series:Basic Deinitions,Fourier Series ,Coffeicients for Even & Odd
		functions.Dirichlet's Conditions,theorems,examples based on it and discusion
		of problems .
		Properties of Fourier coefficents, Fourier Expansion of piecewise Monotonic
		Continous functions,examples based on it and discusion of problems.
SUNDAY - 02.02.2020		
6	February (3 -8)	Examples based on fourier series for Even and odd function
		Fourier Expansion of Functions having Points of Discontinuity ,examples based
		on it. Change of Interval,examples based on it.
		Half Range series,examples based on it and discusion of problems.

SUNDAY - 09.02.2020		
7	February (10 -15)	Parseval's Identity,examples based on it and discussion of problems.
		Introduction to Calculus Of Complex Functions, Stereographic projection Of
		Complex Numbers :Extended plane, stereogrphic Projection, examples based
		on it and discusion of problems.
SUNDAY - 16.02.2020		
8	February (17-22)	complex function or function of a complex variable,Limit of a Complex
		function,examples based on it
		Continuity of complex function,Uniform Continuity,,examples based on it.
		Differentiability of a complex function, theoram and examples based on it.
SUNDAY - 23.02.2020		
9	February (24-29)	Rule of differentation ,examples based on it. Geometric interpretation of
		the derivative.
		Analytic functions, Cauchy-Riemann Equations
		Theoram on necessary condition for function to be analytic,examples based on
		it and discussion of problems.
SUNDAY - 01.03.2020		
10	March (02 -07)	Theoram on sufficent condition for function to be analytic,examples based on
		it. C-R equation In polar form,theoram and examples based on it.
		Orthogonal system,harmonic functions,theoram and examples based on it.
SUNDAY - 08.03.2020		
11	March (09 -14)	**Holi - Vacations**
		Holi - Vacations
		Holi - Vacations
		Holi - Vacations
		Holi - Vacations
		Holi - Vacations
SUNDAY - 15.03.2020		
12	March (16 -21)	Construction of an analytic function : Milne-Thompson's Method,working rule
		and examples based on it.
		Exact Differential Method ,examples based on it.
		Applications Of Analytic Functions to field and flow problems,examples based
		on it and discusion of problems.
SUNDAY - 22.03.2020		
13	March (23-28)	Introduction to Elementry Functions & Mobius Transformations,Definations
		related to it. Elementary Functions,Exponential Function & its Properties
		Trigonometrical Functions & Their Properties
		Hyperbolic Functions & Their Properties
		The logarithmic Functions & Their Properties
SUNDAY - 29.03.2020		
		Inverse Trigonometric and Hyperbolic Functions

14	March (30 -31) April 1-4)	Some Elementary Mappings,examples based on it
		Rotation,Magnification
		Inverse of Functions,examples based on it
		Conformal Mappings,theorems and examples based on it.
SUNDAY - 05.04.2020		
15	April (06 -11)	Linear Transformations
		Mobius Transformation
		Critical Points,theorem and examples based on it.
		Fixed Points,theorem and examples based on it.
SUNDAY - 12.04.2020		
16	April (13-18)	Nature of Mobius Transformation,theorem and examples based on it and discussion
		discussion of problems.
		Cross Ratio,theorem and examples based on it.
		Inverse points,theorem and examples based on it.
SUNDAY - 19.04.2020		
17	April (20-25)	Introduction to Critical Mappings
		Exponential Transformation
		Logarthmic Transformation
		Trigonometric Functions
		linear Fractional Transformation and examples based on it
SUNDAY - 26.04.2020		
18	April (27-30)	Some Imporatant Mappings,Theorems , examples based on it and discussion
		of problems.
		Revision

I.B. (PG) COLLEGE, PANIPAT
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Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- PAPER-IInd class - VIth Sem (ZOOLOGY)

Name of the Teachers (Section wise): PAWAN KUMAR

WEEK	DATE	TOPICS
1	January (1 - 4)	
		Fish seed production
SUNDAY - 05.01.2020		
2	January (6-11)	
		Fish seed production
		Fish seed production
		Fish seed production
SUNDAY - 12.01.2020		
3	January (13-18)	
		Fish seed production
		Fish seed production
		Fish seed production
SUNDAY - 19.01.2020		
4	January (20 -25)	
		Fish seed production
		Fish seed production
		Fish seed production

January - 26.01.2020		
5	January (27- 31) February (1)	
		Fish Nutrition
		Fish Nutrition
		Field culture
SUNDAY - 02.02.2020		
6	February (3 -8)	
		Field culture
		Field culture
		Field culture
SUNDAY - 09.02.2020		
7	February (10 -15)	
		Culture Technology
		Culture Technology
		Culture Technology
SUNDAY - 16.02.2020		
8	February (17-22)	
		Insect Pest of Stored Grain
		Insect Pest of Stored Grain
		Insect Pest of Stored Grain
SUNDAY - 23.02.2020		
9	February (24-29)	
		Insect Pest of Stored Grain
		Insect Pest of Stored Grain
		Insect Pest of Stored Grain

SUNDAY - 01.03.2020		
10	March (02 -07)	
		class test
		Insect Control
		Insect Control
SUNDAY - 08.03.2020		
11	March (09 -14)	HOLIDAY
		HOLIDAY
		HOLIDAY
		HOLIDAY
		HOLIDAY
		HOLIDAY
SUNDAY - 15.03.2020		
12	March (16 -21)	
		Insect Control
		Insect Control
		Insect Control
SUNDAY - 22.03.2020		
13	March (23-28)	
		class test
		revision
		revision
SUNDAY - 29.03.2020		
14	March (30 -31) April 1-4)	
		chemical control
		chemical control
		chemical control

SUNDAY - 05.04.2020		
15	April (06 -11)	
		chemical control
		chemical control
		chemical control
SUNDAY - 12.04.2020		
16	April (13-18)	
		integrated pest management
		integrated pest management
		integrated pest management
SUNDAY - 19.04.2020		
17	April (20-25)	
		class test
		revision
		revision
SUNDAY - 26.04.2020		
18	April (27-30)	Extra classes for weak students
		Extra classes for weak students
		Extra classes for weak students
		Extra classes for weak students