#### D.A.V. PUBLIC SCHOOL, PRATAP VIHAR, GHAZIABAD

#### ACADEMIC PLANNER (2020-21)

#### **CLASS XII, BUSINESS STUDIES**

MONTH	TOPIC
April	
	Unit 11: Marketing Management
	Unit 12: Consumer Protection
May	Unit 1: Nature & Significance of Management
	Unit 2: Principles of Management
	Unit 3: Business Environment
June	Summer Vacation
July	Unit 9: Financial Management
	Unit 10: Financial Market
August	Unit 4: Planning
September	HALF YEARLY EXAMINATION
October	Unit 5: Organising
	Unit 6: Staffing
November	Unit 7: Directing
	Unit 8: controlling
December	Revision for pre board examination
January	Revision work
February	ANNUAL EXAMINATION

Book Prescribed: NCERT

Rashmi Arora

PGT( Commerce)

#### D.A.V. PUBLIC SCHOOL, PRATAP VIHAR, GHAZIABAD

#### ACADEMIC PLANNER (2020-21)

#### **CLASS XII, ACCOUNTANCY**

MONTH	TOPIC
April	Unit 4: Analysis of Financial Statements
	Financial statement of the company
	Financial statement Analysis
	Tools of Financial statement Analysis
	Comparative & Common Size Statement
	<ul> <li>Ratio Analysis</li> </ul>
May	Unit 5: Cash Flow Statement
	<ul> <li>Unit 1: Financial Statement of Not for Profit</li> </ul>
	Organisations
June	Summer Vacation
July	<ul> <li>Unit2:Accounting for Partnership Firms</li> </ul>
	Fundamentals of Accounting
	Valuation of Goodwill
	Reconstitution of Partnership:
	Change in profit sharing ratio
August	Unit 2: Accounting for Partnership firms
	Admission of a Partner
	Retirement and Death of a partner
September	HALF YEARLY EXAMINATION
October	Unit 2:Accounting for Partnership Firms:
	Dissolution of Partnership firms
	Unit 3: Accounting for Companies: Share Capital
November	<ul> <li>Unit 3:Accounting for Companies:</li> </ul>
	Issue of Debentures
	Redemption of Debentures
December	Revision for pre board examination
January	Revision work
February	ANNUAL EXAMINATION

Book Prescribed: NCERT & T.S. GREWAL

#### DAV PUBLIC SCHOOL PRATAP VIHAR GHAZIABAD

#### CLASS :XII SUBJECT : BIOLOGY

#### ANNUAL PLANNER AND SYLLABUS(2020-21)

MONTH	TOPICS	SUB-TOPICS	PRACTICALS
APRIL	<ul> <li>Reproduction in organisms</li> <li>Sexual Reproduction in flowering Plants</li> </ul>	Modes of Reproduction, Asexual and sexual, Structure of flower, development of male and female gametes, pollination, Fertilisation, fruit and seed,Male	1. To study pollen germination.
МАҮ	<ul> <li>Human Reproduction</li> <li>Principles of inheritance</li> <li>Molecular basis of inheritance</li> </ul>	and Female Reproductive system of Human Mendels experiment , inheritance of one and two gene, laws of inheritance,sex determination, Genetic disorder, structure of DNA, Transcription, Translation, Genetic code, lac operon model, HGP, DNA Fingerprinting, pedigree analysis.	<ol> <li>To study gametogenesis through T.S. of ovary and T.S. of testis.</li> <li>To study blastula.</li> </ol>
JULY	<ul> <li>Human Health and Diseases.</li> <li>Strategies for enhancement in food production.</li> <li>Reproductive Health</li> </ul>	Infectious diseases, basic Concepts of immunology, Vaccines, Cancer, AIDS, Drug and alcohol abuse, Plant and animal breeding ,Methods to prevent fertilization and STD's, ART.	<ol> <li>To study disease causing organisms: ascaris, plasmodium And Entamoeba histolytica.</li> <li>To study pedigree charts of rolling tongue, widow's peak and colour blindness.</li> </ol>
AUGUST	<ul> <li>Evolution</li> <li>Microbes in human welfare</li> <li>Principles of biotechnology</li> <li>Applications of biotechnology</li> </ul>	Origin of life, biological evolution, evidences of evolution, Darwin's theory, Mechanism of evolution, Use of microbes in household food processing, industries, rDNA Technology, Application of biotechnology in health and agriculture,	<ol> <li>To study living organisms in pond water.</li> <li>To prepare temporary mount of onion root tip to study mitosis.</li> </ol>

		biopatent and agriculture, Sewage treatment, and medicines. biopiracy	
September (Half yearly Exam)	<ol> <li>Reproduction in organisms</li> <li>Reproduction in flowering plan</li> <li>Principles of inheritance</li> <li>Molecular basis of inheritance</li> <li>Human Health and Diseases.</li> <li>Strategies for enhancement in f</li> <li>Reproductive Health</li> <li>Evolution</li> <li>Microbes in human welfare</li> <li>Principles of biotechnology</li> <li>Applications of biotechnology</li> </ol>	food production.	
OCTOBER	<ul> <li>Organisms and population.</li> <li>Ecosystem</li> <li>Biodiversity and its conservation.</li> </ul>	Habitat and niche of organisms, population attributes, population interactions, Ecosystem: productivity, energy flow, decomposition and nutrient cycling, patterns of biodiversity, its importance, cause of biodiversity loss,	<ol> <li>To study xerophytic adaptation.</li> <li>To study aquatic adaptation.</li> <li>To study the effect of temperatures on the activity of salivary amylase.</li> <li>To study water holding capacity of two different soils.</li> </ol>
NOVEMBER	Environmental issues.	Air pollution and its control, Water pollution and its control, Radioactive pollution, solid waste management, green house effect and ozone depletion.	<ol> <li>To study wind and insect pollinated flower .</li> <li>Isolation of DNA from given plant material.</li> </ol>
DECEMBER(PRE- BORARD EXAM)	REVISION OF WHOLE SYLLABUS	·	
JANUARY	REVISION OF W	HOLE SYLLABUS AND ANNUAL PRA	ACTICALS
FEBRUARY			

PRESCRIBED BOOK: NCERT Text Book of Biology

#### SHAMMI CHHABRA

#### MR. SANJAY SINGH

#### PGT BIOLOGY

#### HOD SCIENCE

## DAV PUBLIC SCHOOL (10+2), PRATAP VIHAR, GHAZIABAD

## ACADEMIC PLANNER (2020-21) CLASS – XII SUBJECT- CHEMISTRY

#### **Prescribed Book:- NCERT**

MONTH	ΤΟΡΙϹ	SUBTOPIC	ΑCTIVITY
April	solutions Chemistry in everydaylife	<ul> <li>Types of solution</li> <li>Concentration of solution</li> <li>Solubility of gas in liquid</li> <li>Solubility of solid and liquid in liquid</li> <li>Colligative properties</li> <li>Van't Hoff factor</li> <li>Abnormal molar mass</li> <li>Classification of drugs</li> <li>Therapeutic action of drug General trends</li> </ul>	
May	Biomolecules General principle and process of isolation of elements Surface chemistry	<ul> <li>.Bio molecules</li> <li>Carbohydrates</li> <li>proteins</li> <li>enzymes and nucleic acid</li> <li>General principle and process of isolation of elements</li> <li>Steps involved in metallurgy</li> <li>Refining methods</li> </ul> Surface Chemistry <ul> <li>Adsorption</li> <li>absorption</li> <li>Classification and properties of colloids</li> </ul>	<ul> <li>Preparation of standard solution of F.A.S</li> <li>Preparation of standard solution of oxalic acid</li> <li>Volumetric titration</li> </ul>
June		SUMMER VACATION WILL HE	ELD
July		•	Volumetric analysis

	Haloalkane and Haloarene Alcohols Phenols and ethers Aldehydes ketones and Carboxylic acid Organic compounds containing nitrogen	<ul> <li>Classification</li> <li>Preparation of Alcohols phenols and ethers and</li> <li>Physical and Chemical properties of Alcohols phenols and ethers</li> <li>Preparation and properties of compounds</li> <li>Preparation of Aldehydes, ketones and carboxylic acid</li> <li>Physical and chemical properties of Aldehydes, ketones and carboxylic acid</li> <li>Preparation of Amines and Diazonium salt</li> <li>Physical and chemical properties of Amines and Diazonium salt</li> </ul>	
August	Polymers Chemical kinetics	<ul> <li>Classification of polymer</li> <li>Preparation and uses of polymers</li> <li>Mechanism of polymerisation</li> <li>Rate of reaction and factors</li> <li>which affect</li> <li>Zero order reaction</li> <li>First order reaction</li> <li>Rate constant</li> <li>Dependence of reaction rate on Temperature</li> <li>Effect of catalyst</li> <li>Collision theory</li> </ul> Half Yearly Exam WILL HEL	• Salt analysis

October	Solid state D and F Block elements	Types of solid Calculation involving density Electrical properties of solid Magnetic properties of solid Conducting properties • Preparation of compounds • Properties of lanthanoids • Properties of actinoids	<ul> <li>Functional group detection</li> <li>chromatography</li> </ul>
November	P Block elements Coordination compounds	<ul> <li>Preparation of compounds And properties of group 15 ,16,17 and 18</li> <li>Theories of coordination compound</li> <li>Isomerism in coordination compound</li> <li>IUPAC nomenclature</li> </ul>	<ul> <li>Preparation of colloids</li> <li>Chemical kinetics</li> </ul>
December	Revision of p block, D and F block elements Physical chemistry	Revision of physical and inorganic chemistry	<ul> <li>Revision of salt analysis</li> <li>Revision of titration</li> </ul>
January	REVISION	<ul> <li>Structures</li> <li>Reasoning questions</li> <li>Numerical</li> </ul>	Revision of content based     experiment
February	F	Pre Board WILL HELD	
March			

## D.A.V Public School, Pratap Vihar, Ghaziabad

#### Academic Planner Class-XII (2020-21) Subject: Computer Science with Python Prescribed book – Preeti Arora

Month	Topic/Unit	Subtopic	Lab Activity
	UNIT3 Data	REVIEW(Chapter 1): Revision of the basics of Python Data Management (DM-2) (Chapter 10) SQL commands: aggregation functions in SQL, Sorting in SQL-order by, group by- having clause	Program of Python with loops and conditional statements. Programs of Python with strings, list dictionary and tuple.
March	Management – 2 (20 Theory + 20 Practical)	Interface Python with an SQL database (Chapter 9): Python SQL connectivity, Creating Cursor objects,	SQL Queries using order by and Aggregated function, SQL Queries using group by and having,
		Interface Python with an SQL database (Chapter 9): creating database, closing cursor and connection, operating on a table.	Integrate SQL with Python by importing the MySQL module
April	UNIT3 Data Management – 2 (20 Theory + 20 Practical )	<b>Django based web application</b> (chapter12): Django Installation, Web servers, GET and POST methods-minimal django based web Application that parses a GET, minimal django based web Application that parses a POST,Working with Flat files and CSV files	Write a Django based web server to parse a user request (POST) Write a Django based web server to parse a user request (POST) and write it to flat file.
	UNIT 1: Programming and Computational Thinking (80 Theory + 70 Practical)	<b>Functions(chapter 2):</b> scope of variable, parameter & Argument passing	Write a Django based web server to parse a user request (POST) and write it to CSV file, Read from CSV files

	PERIODIC TEST- 1	Syllabus: Chapter 1,10	),9,12
Мау	UNIT 1: Programming and Computational Thinking (80 Theory + 70 Practical )	Functions(chapter 2): mutable/immutable properties of data objects, , pass arrays to functions, return values, functions using libraries: mathematical, and string functions	Read a file line by line and print it. Remove all the lines that contain the character `a' in a file and write it to another file.
		<b>Using Python libraries(chapter 3):</b> create and import Python libraries, Namespaces, name Resolution, Packages, locating Modules	Write a Python function sin(x, n) to calculate the value of sin(x) using its Taylor series expansion up to n terms. Compare the values of sin(x) for
July		<b>File handling(chapter 4):</b> open and close a file, read, write, and append to a file, standard input, output, and error streams, relative and absolute paths.	different values of n with the correct value.
_			Write a random number generator that
	UNIT 1: Programming and	<b>Recursion(chapter 2):</b> simple algorithms with recursion: factorial, Fibonacci numbers; recursion on arrays: binary search).	generates random numbers between 1 and 6 (simulates a dice).
	Computational Thinking (80 Theory + 70 Practical )	Idea of efficiency(Chapter 5):	Write a recursive code to find the sum of all elements of a list.
		performance defined as inversely proportional to the wall clock time, count the number of operations a piece of code is performing, and measure the time taken by a program. Example: take two different programs for the same problem, and understand how the efficient one takes less	Write a recursive code to compute the nth Fibonacci number
		time.	Recursively find the factorial of a natural number.

August	UNIT 1: Programming and Computational Thinking (80 Theory + 70 Practical )	<b>Data-structures(chapter 6):</b> lists, stacks- using list-creating, adding elements, deleting element traversing, queues using list-creating, adding elements, deleting element traversing.,	Write a recursive Python program to test if a string is a palindrome or not.
			Write a Python program to implement a stack and queue using a list data-structure.
		<ul> <li>Data visualization using Pyplot(Chapter 7):Matplotlib,Numpy,Types of visualizations, line chart, pie chart, and bar chart.</li> </ul>	
August	UNIT 2:	<b>Structure of a network(chapter 8):</b> Types of networks- local area and wide area (web and internet),PAN, new technologies such as cloud and IoT, public vs. private cloud, wired and wireless networks; concept of a client and server.	Write a Python program to plot the function y = x2 using the pyplot or matplotlib libraries.
	Computer Networks (CN) (30 Theory + 10 Practical)	<b>Network devices(chapter 8):</b> such as a NIC, switch, hub, router, repeater, gateway, and access point.	
		<b>Network stack(chapter 8)</b> : amplitude and frequency modulation, collision in wireless networks, error checking, and the notion of a MAC address, main idea of routing.	Create a graphical application that accepts user inputs, performs some operation on them, and then writes the output on the screen. For example, write a small calculator.

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		<b>IP addresses(chapter 8):</b> (v4 and v6), routing table, router, DNS, and web URLs	Use the tkinter library.
September	UNIT 2: Computer Networks (CN) (30 Theory + 10 Practical)	Basic network tools(chapter 8): traceroute, ping, ipconfig, nslookup, whois, speed-test.	Open a webpage using the urllib library.
September		<b>TCP(chapter 8):</b> basic idea of retransmission, and rate modulation when there is congestion (analogy to a road network), Protocols: 2G, 3G, 4G, WiFi. What makes a protocol have a higher bandwidth?	Compute EMIs for a loan using the numpy or scipy libraries.
		REVISION	
	HALF YEARLY EXAM	Syllabus: Chapter 2,3,4,	5,6,7,9,10
October	UNIT 2: Computer Networks (CN) (30 Theory + 10 Practical	Application laye(chapter 8)r: HTTP (basic idea), working of email, secure communication: encryption and certificates (HTTPS), network applications: remote desktop, remote login, HTTP, FTP, SCP, SSH, POP/IMAP, SMTP, VoIP, NFC (Chapter 9)	Take a sample of 10 phishing e-mails and find the most common words.
	UNIT 4: Society, Law and Ethics (SLE- 2)	Society, Law and Ethics (SLE-): (Chapter 11) Intellectual property rights, plagiarism, digital rights management, and licensing (Creative Commons, GPL and Apache), open source, open data, privacy.	

November	UNIT 4: Society, Law and Ethics (SLE- 2) (10 Theory)	<ul> <li>(Chapter 11)         Privacy laws, fraud; cyber-crime- phishing, illegal downloads, child pornography, scams; cyber forensics, IT Act, 2000.     </li> <li>Technology and society: understanding of societal issues and cultural changes induced by technology.</li> <li>E-waste management: proper disposal of used electronic gadgets. • Identity theft, unique ids, and biometrics.</li> <li>Gender and disability issues while teaching and using computers</li> </ul>	Practice Programs
	PERIODIC TEST- 2	Syllabus: Chapter 1,2	,6,8,11
December		Revision	
January	PREBOARD	Syllabus: All four U	nits
February	Revision		
March		Revision	

# D.A.V. PUBLIC SCHOOL, PRATAP VIHAR, GHAZIABAD

#### ACADEMIC PLANNER(2020-2021) CLASS: XII ECONOMICS

MONTH	TOPIC	SUB TOPIC(S)
April	Part A: Introductory macroeconomics ✤ Unit 2: money and banking	<ul> <li>Money-its meaning and functions</li> <li>Supply of money</li> <li>Money creation by the commercial banking system</li> <li>Central and its functions</li> </ul>
	<ul> <li>Unit 4: Government budget and the economy</li> </ul>	<ul> <li>Government budget- meaning, objectives and components</li> </ul>
		<ul> <li>Classification of receipts- revenue receipts and capital receipts: classification of expenditure-revenue expenditure and capital expenditure</li> <li>Measures of government deficit</li> </ul>
May	<ul> <li>Unit 3</li> <li>Determination of income and employment</li> </ul>	<ul> <li>Aggregates demand and its components</li> <li>Propensity to consume and propensity to save</li> <li>Short run equilibrium output; investment multiplier and its</li> </ul>
		mechanism ✤ Meaning of full employment and involuntary

	1	· · · · · · · · · · · · · · · · · · ·
		<ul> <li>unemployment</li> <li>Problem of excess demand and deficient demand: measures to correct them</li> </ul>
	<ul> <li>Unit 5 balance of payments</li> </ul>	<ul> <li>Balance of payments account-meaning and components; balance of payments deficit-meaning</li> </ul>
	Unit 1: National income and related aggregates	<ul> <li>Foreign exchange rate- meaning of fixed and flexible rates and managed floating</li> </ul>
		<ul> <li>Determination of exchange rate in a free market</li> </ul>
		<ul> <li>Some basic concepts:</li> <li>Circular flow of income; methods of calculating national income</li> <li>Aggregates to national income: GNP, NNP,GDPmp, NDPmp GDPfc, NDPfc,</li> </ul>
July	<ul> <li>Unit 1: National income and related aggregates</li> <li>Unit -6</li> <li>Indian</li> </ul>	<ul> <li>NNP,GDPmp, NDPmp GDPfc, NDPfc, Real and Nominal GDP.</li> <li>GDP and welfare</li> <li>State of Indian economy</li> </ul>
	economic development	<ul> <li>State of Indian economy on the eve of independence</li> </ul>
August	<ul> <li>(1947-90)and</li> <li>economic</li> <li>reforms since</li> <li>1991</li> </ul>	<ul> <li>Common goals of five year plans</li> <li>Economic reforms since 1991</li> </ul>

September	Revision	
		Half yearly exam
October	Unit-7 current challenges facing	<ul> <li>Programmes of poverty alleviation</li> </ul>
	Indian economy	<ul> <li>Credit and marketing</li> </ul>
	Poverty	• Creat and marketing
		<ul> <li>Role of human capital</li> </ul>
	Rural development	formation
	Human capital formation	
	Tormation	
November	Employment	<ul> <li>Formal and informal</li> </ul>
	Infrastructure	,growth and other issues
	Sustainable	<ul> <li>Meaning and types of</li> </ul>
	development	infrastructure
		<ul> <li>Meaning . effects of</li> </ul>
	✤ Unit -8:	economic development on
	Development	resoures and environment
	experience of	including global warming
	India	
December		• $1^{\text{ST}}$ Preboard
January		2 <sup>nd</sup> Preboard
February		Revision
March		Board exams

#### DAV PUBLIC SCHOOL PRATAP VIHAR GHAZIABAD

#### ACADEMIC PLANNER & SYLLABUS S(2020-21)

#### CLASS - XII SUB - ENGLISH CORE

**Prose- Flamingo** 

#### **Supplementary Reader - Vistas**

SR.NO	MONTH	Syllabus	
I.APRIL		Reading -Comprehension Passage, Writing Advertisement/	
		Letter – (Editorial/ Business)Placing Order, Enquiry/ Job Application	
		Prose Ch-1 The Last Lesson Ch-2 Lost Spring	
2.	MAY	Reading &Writing Notice, Advertisement/ Letter Formal(Official)	
		Article/ Speech writing	
		Prose- Ch. 3. Deep Water Poetry P-1 My Mother at Sixty Six	
		P-2 An Elementary School Classroom	
		Vistas – <b>Ch</b> – 1 The Third Level <b>Ch</b> -2 The Tiger King	
	PERIODIC TEST 1	Reading & Writing & Literature + All syllabus covered till May	
3.	JULY	<b>Reading &amp; Writing -</b> Comprehension Passage ,Note Making, Display	
		Advertisement, Article, Speech, Debate, Report,	
		<b>Prose-</b> Ch- 4 The Rattrap Poem – 3 Keeping Quiet	
		Vistas - $Ch - 3$ . Journey to the End of the World $Ch - 4$ The Enemy	
4.	AUGUST	Reading & Writing – Posters/ Formal Letters/Article/ Speech/ Debate	
		Report Writing	
		<b>REVISION of all syllabus</b>	
5.	SEPTEMBER	<b>REVISION</b> and	
	/REVISION/	Half Yearly Exams	
	PERIODIC		
	TEST 2/		
	HALFYEARL		
	Y		
6.	OCTOBER	<b>Reading &amp; Writing</b> - Comprehension passage, Note Making,	
		<b>Prose – Ch</b> – 5 Indigo Ch- 6 Poets & Pancakes	
		<b>Poetry</b> $- P - 4$ A Thing Of Beauty	
		Vistas – Ch- 5 Should Wizard Hit Mommy Ch – 6 – On the Face Of It	
	NOVEMBER	Reading & Writing - Note Making, Article/ Speech etc.	
7.		<b>Prose – Ch</b> – 7. The Interview <b>Ch</b> – 8. Going Places	
		<b>Poetry</b> $- P - 5$ A Road side Stand $P - 6$ Aunt Jennifer's Tigers	
		Vistas – Ch – 7 – Evans Tries O – Level Ch – 8 – Memories of Childhood	
	PERIODIC	Comprehension Passage Note Making + All Syllabus covered In Month	
	TEST 3	Of October & November	
8.	DECEMBER	Comprehension Passage, Note Making, Article/ Debate	
		Revision & Pre Board I	
9.	JANUARY	Revision & Pre Board II	

10.	FEBUARY	Revision of Whole Syllabus
11.	MARCH	Final Exams

## D.A.V. PUBLIC SCHOOL

## PRATAP VIHAR, GHAZIABAD CLASS-XII-SUB-MASS MEDIA ACADEMIC PLANNER – 2020-21

#### 1. UNIT TEST - 1

- 1. UNIT 1. ( April- May)
- 2. Selling / Marketing/Exhibiting a product Through Advertising.
- 3. Chapter 2. Functions Of Advertising
- 4. Chapter 3. Types Of Advertising
- 5. Chapter 4. Form Of Advertising
- 6. Employability Skills
- 7. Chapter 1. Communication Skills.

#### JUNE- SUMMER VACATIONS

- 2. UNIT 2. (July- August)
- 3. Introducion To The Production Process
- 4. Chapter-1. Film
- 5. Chapter- 2. Television
- 6. Chapter-3. Print

- 7. Chapter- 4. Radio
- 8. Chapter-5 Internet
- 9. Employability Skills
- 10. Chapter-2. ICT skills

#### SEPTEMBER HALF YEARLY EXAMINATION

- 11. Unit-Test-3.(October)
- 12. UNIT-3. NEW MEDIA
- 13. Employability Skills- Self Management Skills
- 14. Unit-4. Creative contribution of the Key PeopleChapter 1. Film

<u>Month - November</u>

Chapter-2. Television In Production Process

Chapter-3. Print - Analyzes of Newspaper

- Chapter-4. Radio- Recording For Radio
- Chapter-5. Internet.

In DECEMBER – Revision for Pre Board and Practical Exams.

<u>In January</u> – pre boards and Practicals

In February Final Examination.

Prescribed Book- N.C.E.R.T. text book of Mass-Media making of portfolio & documentary

NOOR SARASWAT

PGT ( MASS MEDIA)

#### **D.A.V. PUBLIC SCHOOL**

#### PRATAP VIHAR, GHAZIABAD

#### ACADEMIC PLANNER

#### CLASS XII (2020 - 2021)

#### MATHEMATICS

MONTH	TOPICS
APRIL	Ch-1 Relation and Function
	Ch-2 Inverse trigonometric functions
	Ch-3 Matrices Ch-4 Determinants
MAY	Ch-5 Continuity and differentiability
	Ch-12 Linear programming
	Ch-6 Application of derivatives
JULY	Ch-6 Application of derivatives (Continued)
	Ch- 7 Integrals
AUGUST	Ch- 8 Application of Integrals
	Revision of Half yearly syllabus
SEPTEMBER	HAFYEARLY EXAMINATION

OCTOBER	Ch-9 Differential Equations
OCTODER	CII-9 Direfential Equations
	Ch-10 Vector Algebra
	Ch-11 3-D Geometry
NOVEMBER	Ch-13 Probability
	Revision and Preboard 1
DECEMBER	Revision
	(WHOLE SYLLABUS)
JANUARY	whole syllabus
JANGAN	whole synabus
PREBOARD II	
EXAM	
FEBRUARY	Revision

## DAV Public school, Pratap Vihar Ghaziabad

## Academic Planner (2020–21) Class - XII Subject – Physical Education

S.N0.	Month	Chapter
1.	APRIL	Unit -1: Planning in Sports
2.	MAY	Unit-2: Sports and Nutrition
3.	JULY	Unit-3: Yoga and Life style
		Unit-4: Physical Education and sports for CWSN (Divyang)
4.	AUGUST	Unit-5: Children and women in sports
		Unit-6: Test and Measurements in Sports
5.	SEPTEMBER	Revision of SA-1, or Half yearly (unit-1 to unit-6)
6.	OCTOBER	Unit-7: Physiology and injuries in Sports.
7.	NOVEMBER	Unit-8: Bio mechanics & Sports
8.	DECEMBER	Unit-9: Psychology & Sports
		Unit-10: Training in Sports
9.	JANUARY	Revision & (PRE-BOARD)

## DAV Public School, PratapVihar Ghaziabad

# Academic Planner (2020–21) Class - XII

Subject – Work Experience

S.NO	ACTIVITY
TERM1	<ol> <li>List the steps to form committees for tournaments</li> <li>Tree Plantation</li> </ol>
TERM 2	<ol> <li>1.Preparation and use to First Aid Box</li> <li>2. Effects of tobacco and Alcohol in human body</li> </ol>

#### DAV PUBLIC SCHOOL (10+2), PRATAP VIHAR, GHAZIABAD

### ACADEMIC PLANNER (2020-21) CLASS – XII SUBJECT- PHYSICS

#### Prescribed Book: - Physics Textbook Part-I (NCERT) & Physics Textbook Part-II (NCERT)

MONTH	ΤΟΡΙϹ	SUBTOPIC	PRACTICAL
April	1. Electric Charges	Conservation of electric	• To find the resistance of a
	and Fields	charges, Electric field,	wire using meter bridge
		electric dipole, Electric	and also determine the
		flux, Gauss theorem,	specific resistance.
	2. Electrostatics	Equipotential surfaces	
	potential and	,Conductors and	To determine resistance
	Capacitance	Insulators, Dielectric and	per cm of a wire by plotting
		Electrical polerisation,	a graph b/w potential
		Capacitance and	difference and current.
		Capacitors, Van de	
		graaff generator	
May	3. Current Electricity	Electric current, Ohm's	<ul> <li>To verify the laws of</li> </ul>
		Law, V-I characteristics,	combination (series and
		Temperature	parallel) of resistances
		dependence of	using a meter bridge.
		resistance, emf of a cell,	
		Kirchhoff's Law and its	
		applications,	
		Potentiometer, Internal	
		resistance of a c ell	
June		SUMMER VACATION WIL	L HELD
July	4. Moving charges	Oerested Experiment,	• To compare the emf of two
	and Magnetism	Biot Savart Law,	given primary cells using
		Ampere's law and its	potentiometer.
		application, Straight and	
		Toloidal Solenoids,	
	5. Magnetism and	Moving coil	To determine the internal
	Matter	galvanometer, Magnetic	resistance of a primary cell
		dipole, Magnetic field	using potentiometer.
		intensity, Torque on	
		magnetic field,	
		Electromagnets	

	6. Electromagnetic	Electromagnetic	
	Induction	induction, Faraday's law	
August	6. Electromagnetic Induction 7. Alternating Current	Lenz's law, Eddy currents, Self and mutual induction, AC, reactance & impedance, LC oscillations, LCR series, AC generator and transformer,	• To determine the resistance of galvanometer by half deflection method and to find its figure of merit.
Contombor	8. Electromagnetic Waves	Transverse nature of Electromagnetic Waves, Electromagnetic Spectrum and their uses	To find the frequency of AC mains with a sonometer.
September October	9. Ray Optics and	Half Yearly Examination w Reflection & Refraction	<ul> <li>To find the value of v for</li> </ul>
	Optical Instruments 10.Wave Optics 11. Dual Nature of Radiation and Matter	of Light, Mirror formula, TIR, Lens formula, Scattering of light, Human eye, Microscopes and astronomical telescopes Wave front & Huygen's principle, Interference young's double slit expt, diffraction, Polarisation Photoelectric effect, Hertz & Lenard's observations, Matter waves	<ul> <li>different values of u in case of a concave mirror &amp; to find the focal length.</li> <li>To find the focal length of a convex mirror using a convex lens.</li> <li>To find the convex lens by plotting graphs b/w u and v.</li> <li>To find the focal length of a concave lens using a convex lens.</li> </ul>
November	<ul> <li>12. Atoms</li> <li>13. Nuclei</li> <li>14. Semiconductor Electronics</li> </ul>	Alpha particle, Rutherford's model, Bohr model, Energy levels Composition and size of nucleus, alpha, beta, gamma particles, Nuclear fission & fusion Energy bands, Semiconductor diode, LED, Zener diode, Transistor, Logic gates,	<ul> <li>To determine the angle of minimum deviation and refractive index of a given prism.</li> <li>To find the refractive index of a liquid by using concave mirror.</li> <li>To find the refractive index of a liquid by using convex lens &amp; plane mirror.</li> <li>To draw I-V characteristics curve for a p-n junction in</li> </ul>
		Transistor as a switch	forward & reverse bias.

December	15. Communication Systems	Elements of Communication Systems, Bandwidth, Propagation of EMW, amplitude-Modulated wave	<ul> <li>To draw I-V characteristics curve of a zener diode &amp; determine its reverse breakdown voltage.</li> <li>To study the characteristics of a common emitter n-p-n transistor.</li> </ul>
January	REVISION & PREBOARD EXAMINATION – I WILL HELD		
February	PRACTICALS WILL HELD		
March	CBSE BOARD EXAMINATION WILL HELD		

## Weight-age to Learning Objectives:-

UNIT	CHAPTER/TOPIC	MARKS
I	Electrostatics	16
	1. Electric Charges and Fields	
	2. Electrostatics potential and Capacitance	
П	Current Electricity	
	3. Current Electricity	
III	Magnetic Effects of Current and Magnetism	17
	4. Moving charges and Magnetism	
	5. Magnetism and Matter	
IV	Electromagnetic Induction & Alternating Current	
	6. Electromagnetic Induction	
	7. Alternating Current	
V	Electromagnetic Waves	18
	8. Electromagnetic Waves	
VI	Optics	
	9. Ray Optics and Optical Instruments	
	10.Wave Optics	
VII	Dual Nature of Matter	12
	11. Dual Nature of Radiation and Matter	
VIII	Atoms & Nuclei	
	12. Atoms	
	13. Nuclei	
IX	Electronic Devices	07

14. Semiconductor Electronics	
Total	70

Unit test- 1 = 50 marks

Half Yearly Exam = 70 marks

Preboard-1 = 70 marks

Pre Board Exam = 70 marks