

GRADE XII SCIENCE

# NNUAL LEA





### ANNUAL PLANNER Session: 2023-24

Class: XII Subject: Computer Science (083)

S. No.	Month	Unit/Chapter/Topic	Practical/Activity	Syllabus Internal Assessment / Half Yearly/ Annual
1	April	UNIT 1: Chapter1- python revision tour 1 Chapter2- python revision tour 2 Chapter3- working with functions	Programs based on python fundamentals and functions	
2	May	Chapter3- working with functions continue Chapter4- file handling	Program based on built-in, user defined functions and text file handling	Internal Assessment 1 Ch-1,2,3
3	June		mer break	
		( Prepare practical file on som		given in list )
4	July	Chapter4- file handling continue	Programs based on binary and csv file handling	
5	August	Chapter5- data structure using stack UNIT 2: Chapter6- computer networks 1	Practice of all stack based questions using push, pop	Internal Assessment 2 Ch-4,5
		-	operations	
6	September	Revision & exam		Half Yearly (written) Ch-1,2,3,4,5,6 Half Yearly (practical) Ch-1 to 4
7	October	Chapter 7- computer networks 2 UNIT 3: Chapter8 : MYSQL revision tour	To make database and relations in MYSQL using all commands	
8	November	Chapter9: More on SQL Chapter 10: Interface with python	Practice on queries of MYSQL and join Operations, connectivity of python to database using programming code	
9	December	Revision & pre board 1 ex	ams	
10	January	Pre board 2 exams		
11 12	February March	FINAL EXAMS		



### ANNUAL PLANNER Session:2023-24

Class: XII Subject : Chemistry

S. No	Month	Unit/ Chapter/ Topic	Practical/Activity	Syllabus Internal Assessment / Half Yearly/ Annual
1.	April	Chapter-1 Solution Chapter-2 Electrochemistry (Half)	<ol> <li>Separation of mixture of two ink by chromatography.</li> <li>Preparation of standard solution of some salt.</li> </ol>	-
2.	May	Chapter-2 Electrochemistry (Half) Chapter-3 Chemical Kinetics	<ol> <li>Construction of Denial's cell.</li> <li>An electrolytic cell will be constructed.</li> <li>To study the variation of cell potential with the change in concentration in Denial's cell.</li> <li>To study the effect of temperature and concentration on the rate of reaction between Thiosulfate and HCl.</li> </ol>	IA-I Syllabus: Chapter- 1 and 2
3.	July	Chapter-4 d & f block elements.  Chapter-5 Coordination compounds.	<ul><li>1.Titration of the KMnO4 vs. Mohr's salt /oxalic acid.</li><li>2. Salt analysis</li></ul>	IA-IISyllabus: Chapter- 3 and 4
4.	August	Chapter-6 Haloalkane and haloarene. Chapter-7 Alcohol, phenol and ether (half)	<ol> <li>To prepare the colloidal solution of Gum, egg albumin and starChapter-</li> <li>Salt analysis.</li> </ol>	
5.	September	Chapter-7 Alcohol, phenol and ether (half)	1. Salt analysis.	Half Yearly Syllabus: Chapter- 2, 3, 4, 5, 6
6.	October	Chapter-8 Aldehyde, ketone and carboxylic acid. Chapter-9 Amines	Test for the functional group in organic compounds	
7.	November	Chapter-10 Biomolecules.	1. Preparation of double salt.	Pre-Board-1 Full Syllabus

8.	December	Revision and Practice for Board	Revision and Practice for Board	Pre-Board-2
		Exam	Exam	(Full Syllabus)
9.	January	Revision and Practice for Board	Revision and Practice for Board	
		Exam	Exam	
10.	February	Revision and Practice for Board	Revision and Practice for Board	
		Exam	Exam	



### ANNUAL PLANNER

**Session: 2023-24** 

Class : XII Subject : Core Maths

Month	Unit/Chapter/Topic	Activities	Syllabus
			Internal Assessment / Half Yearly/ Annual
April	Ch–3: Matrices Ch–4: Determinants	Activity:- 1. To relate the matrices with real life.	M.C.Q. Test and work sheet Ch- 3, 4
May	Ch–1: Relations and Functions Ch–10: vectors Ch-2: Inverse Trigonometric Functions	To verify that the relation R in the set L of all lines in a plane, defined by R = {(l, m): l \( \) m} is symmetric but neither reflexive nor transitive.  To verify that angle in a semi-circle is a right angle, using vector method.	Revision Test Syllabus: Ch-1,2 Internal Assessment 1 Ch-2,3,4
July	Ch-5:Continuity and Differentiability	To draw the graph of $1 \sin x - 1$ , using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about the line $y = x$ ).  To find analytically the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point.	
August	Ch-6:Applications of Derivatives Ch-7:Integrals(Ex-7.1 to 7.7)	To understand the concept of decreasing and increasing functions.  To evaluate the definite integral $2(1) - x dx$ as the limit of a sum and verify it by actual integration.	Internal Assessment 2 Ch-5,6
September	Ch-7:Integrals(Ex-7.8 to misc. exercise) Ch-08: Applications of the Integrals		Half Yearly Ch-1,2,3,4,5,6,10
October	Ch-09: Differential Equations Ch-11: Three - dimensional Geometry	To measure the shortest distance the two skew lines and verify it analytically.	
November	Ch-12: Linear Programming Ch-13: Probability	Project:- To minimize the cost of food while meeting the dietary requirements of the staple food of the adolescent students of your school.	
December	Revisions		
January	EXAM		



### ANNUAL PLANNER Session:2023-24

Class:XII Subject: Physics

S.No	Month	Unit/Topics/Chapter	Activities	Syllabus
				IA/Half Yearly/Yearly
1.	April	Chapter-1: Electric Charges and Fields Chapter-2: Electrostatic Potential and Capacitance	P1-To find resistance of a given wire / standard resistor using meter bridge.  A1-To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.	
2.	May	Chapter-3: Current Electricity Chapter-4: Moving Charges and Magnetism	P2-To verify the laws of combination (series) of resistances using a metre bridge.  A2-To assemble the components of a given electrical circuit.	IA-I- Chapter-1,2
3.	July	Chapter-5: Magnetism and Matter Chapter-6: Electromagnetic Induction	P3-To convert the given galvanometer into a voltmeter of desired range and to verify the same.  A3- To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.	IA-II- Chapter-3,4
4.	August	Chapter-7: Alternating Current Chapter-8: Electromagnetic Waves	P4-To find the frequency of AC mains with a sonometer.  A4-To identify a diode, an	

			LED, a resistor and a capacitor from a mixed collection of such items.	
5.	September	Chapter-9: Ray Optics and Optical Instruments Chapter-14: Semiconductor Electronics: Materials, Devices and Simple Circuits	P5-To find the focal length of a concave lens, using a convex lens.  P6-To find the focal length of a convex mirror, using a convex lens.	Half Yearly Syllabus: Chapter-1, 2, 3, 4, 5, 6, 7, 8
6.	October	Chapter-10: Wave Optics Chapter-11: Dual Nature of Radiation and Matter	P7-To determine angle of minimum deviation for a given prism by plotting a graph.  A5-To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.	
7.	November	Chapter-12: Atoms Chapter-13: Nuclei	P8-To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.  A6-To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.	Pre-Board-1 (Full Syllabus)
8.	December	Revision and Practice for Practical Exam		Pre-Board-2 Full Syllabus
9.	January	Revision		



### ANNUAL PLANNER

**Session:2023-24** 

Class: XII Subject: Biology

S.No Mor  1. April	nth Topics/Chapters	Activities	Assessment
1. April	•		
	Ch-1Reproduction in organisms Ch-2 Reproduction in flowering plants	Pollen tube germination	
2. <b>May</b>	Ch-3 Human reproduction Ch- 4 Reproductive Health	T.S Testis T.S. Ovary T.S blastula, gastrula	<u>IA-I: Ch-1,2</u>
3. July	Ch- 5 Principles of Inheritance and Variation	Pedigree analysis for various genetic disorders	IA-II: Ch-3,4
		Study of Mendelian characters	
4. August	Ch- 6 Molecular Basis of Inheritance Ch-7 Evolution Ch-8 Human Health and Diseases	Isolation of DNA from different sources  Study specimens of different disease-causing MOs	
5. Septem	Ch-9 Strategies for Enhancement in Food Production Ch-10 Microbes in Human Welfare Ch-11 Biotechnology - Principles and processes	Quadrat Method to study population density and frequency Study pH, water holding capacity, texture etc. of soil samples.	<u>Half Yearly: Ch-</u> <u>1,2,3,4,5,6,7</u>
6. October	Ch-12 Biotechnology and its Application Revision and Half Yearly Examination	Spotting of different specimens	
7. Novem			
8. Novem			Pre-Board-I: Full Syllabus
9. <b>Decem</b>	Revision and Practice for Practical Exam		Pre-Board-II: Full Syllabus
	y Revision		

## ANNUAL PLANNER

Session: (2023-2024)

Class- XII Subject-Psychology

MONTH	CHAPTER	PRACTICAL	ASSESSMENT
APRIL	CH1:VARIATIONSINPSYCHOLOGICAL ATTRIBUTES		
MAY	CH2:SELFANDPERSONALITY		IA 1 : CH 1
JULY	CH3:MEETING LIFE CHALLENGES CH4:PSYCHOLOGICALDISORDERS	INTELLIGENCE PERSONALITY	REVISION TEST: CH 1, CH 2
AUGUST	CH5:THERAPEUTICAPPROACHES	APTITUDE	IA2:CH3, CH4,CH5
SEPTEMBER	CH6:ATTITUDEANDSOCIALCOGNITION	ADJUSTMENT	HALFYEARLY: CH1,CH2,CH 3,CH4,CH5
OCTOBER	CH7:SOCIALINFLUENCEANDGROUP PROCESSES	SELFCONCEPT	
NOVEMBER	CH 7 : SOCIAL INFLUENCE AND GROUP PROCESSES		REVISION TEST:CH6,CH 7
DECEMBER			PRE-BOARD I
<b>JANUARY</b>			PRE-BOARDII



# GATEWAY INTERNATIONAL SCHOOL ANNUAL PLANNER

**Session:** (2023-2024)

Class- XII Subject : Physical Education

S.N o.	Month	Unit/Chapter/Topic	Activity	Interna l Assessment/Half Yearly/Annual
1	April	Unit:1  Management of sportsing events Planning organising Staffing,d rect ng and control ng.  Various committees  Fixtures and it s procedure.	Knockout Fixtures Al tournament fixtures test League methodstest.	
2	May	Unit 2: Children & women insports Common posturaldeformit es Special considerat on Female athletes triad	Lordosis, Kyphosis andscol osis d agram	IA -1: UNIT: 1,2
3	June	Summer break		
4	July	Unit 3: Yoga as prevent ve measure for lifestyled sease Obesity, diabetes, asthma, hypertension	Yoga act vit esand test.	
5	August	Unit 4: Physical educat on andsports for CWSN- Divyang.organizat ons Promot ng disability sports Paralympic,deaflympics Strateg es to make physical activities.	Phys ical activ it es	IA-2: UNIT 3,4
6	Septembe r	Unit 5: Sports and nutrit on Concept of balance diet and nutrit on.  Macro and micro nutrit on food sources	Lesson test	Half yearly exam : unit 1 to5

		and funct on. Nutritive &non nutrit vecomponents of d et Revision half yearly		
7	October	Unit 6: Test and measurementin sports.  Unit 7: Physiology and injuries in sports.chair sit and reach test arm curl test E ght foot up &go test.	BMI explain	
8	Novembe r	Unit 8: Biomechanics and sports. Psychology and sports Card o respiratory system Unit 9: Sports injuriesc assificat on Joint injuries dislocat on fractures	Equ briumd agram Lesson test	
9	Decembe r	Unit 10: Training in sports Concept of talent ident ficat on and talent development in sports Sports training micro,meso, macro cycle.	Flexibility and coordinat ve ability act vit es.Lesson test	
10	January	revision	Test	
11	February	Revision	Test	
12	March			



# **GATEWAY EDUCATION**

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