PHYSICS SYLLABUS (2023-2024): CLASS-XII

	PERIODIC TEST -1 (PT)		
•	<u>Chapters</u>	Blue Print PT-1	Marks
✓	Ch-1. Electric Charges and Field	MCQ (1 x7)	
✓	Ch-2. Electric Potential and Capacitance	Assertion Reason (1 x 2)	9
✓	Ch-3. Current Electricity	Very Short Question	
		Short Question-1 (2 x 3)	6
		Short Question-2 (3 x 5)	15
		Long questions including	10
		Case Study (5 x 2)	
		Total	40
*	First Term Exam		
•	Chapters	Blue Print First Term	Marks
✓	Ch-1. Electric Charges and Field	MCQ (1 x 12)	
✓	Ch-2.Electric Potential and Capacitance	Assertion Reason (1 x 4)	16
✓	Ch-3. Current Electricity	Very Short Question	
✓	Ch-4. Moving charges and field	Short Question-1 (2 x 5)	10
✓	Ch-5. Magnetism and Matter	Short Question-2 (3 x 7)	21
✓	Ch-6. Electromagnetic induction	Case Study (4 x 2)	8
✓	Ch-7. Alternating Current	Long Questions (5 x 3)	15
✓	Ch-8. Electromagnetic waves	Total	70
	-		
•	Practicals	Blue Print Practicals	Marks
✓	Ch-3. Current Electricity	Experiment	10
✓	Ch-4. Moving charges and field	Activity	5
✓	Ch-6. Electromagnetic induction	Practical Record	5
	<u> </u>	VIVA- Voce	10
*	Second Term Exam		
>	Chapters	Blue Print Second Term	Marks
✓	Ch-1. Electric Charges and Field	MCQ	
✓	Ch-2. Electric Potential and Capacitance	Assertion Reason	1x16=16
✓	Ch-3. Current Electricity	Very Short Question	
✓		Short Question-1 (2 x 5)	10
✓	Ch-9. Ray Optics	Short Question-2 (3 x 7)	21
✓	Ch-10. Wave Optics	Case Study (4 x 2)	8
✓	Ch-11. Dual Nature of Matter and Radiations	Long Questions (5 x 3)	15
✓	Ch-12. Atoms	Total	70
	Pre Board- 1 and 2 – Full Syllabus	1014.	
	 Blue Print will be same as given in Sec 	ond Term	
		-	Maulea
•		Blue Print Practicals	IVIARKS
	Final Practicals		Marks 14
•		Two Experiments (from each section)	Marks 14
•	Final Practicals	Two Experiments	
•	Final Practicals Ch-3. Current Electricity	Two Experiments (from each section)	14
•	Final Practicals Ch-3. Current Electricity	Two Experiments (from each section) Practical Record	14
• ✓	Final Practicals Ch-3. Current Electricity Ch-4. Moving charges and field	Two Experiments (from each section) Practical Record (Experiments and Activities)	14 5 3 3
• ✓	Final Practicals Ch-3. Current Electricity Ch-4. Moving charges and field	Two Experiments (from each section) Practical Record (Experiments and Activities) One Activity	14 5 3

Unit	Chapter Name	<u>Marks</u>
Unit- 1	Ch-1. Electric Charges and Field	
	Ch-2. Electric Potential and Capacitance	
Unit- 2	Ch-3. Current Electricity	16
Unit- 3	Ch-4. Moving charges and field	
	Ch-5. Magnetism and Matter	
Unit- 4	Ch-6. Electromagnetic induction	17
	Ch-7. Alternating Current	
Unit- 5	Ch-8. Electromagnetic waves	
Unit- 6	Ch-9. Ray Optics	
	Ch-10. Wave Optics	18
Unit- 7	Ch-11. Dual Nature of Matter and Radiation	
Unit- 8	Ch-12. Atoms	
	Ch-13. Nuclei	12
Unit- 9	Ch- 14. Semiconductors	07
	Total	70

Month	Chapter's Name
April	Ch-1. Electric Charges and Field
	Ch-2. Electric Potential and Capacitance
May	Ch-3. Current Electricity
June	Vacations
July	Ch-4. Moving charges and field
	Ch-5. Magnetism and Matter
August	Ch-6. Electromagnetic induction
	Ch-7. Alternating Current
	Ch-8. Electromagnetic waves

September	1 st Terminal
October	Ch-9. Ray Optics
	Ch-10. Wave Optics
November	Ch-11. Dual Nature of Matter and Radiation
	Ch-12. Atoms
December	Ch-13. Nuclei
	Ch- 14. Semiconductors
January	Revision + Pre board - 1 + Final Practicals
February	Revision + Pre Board – 2 + Final Practicals
March	Final Board Examination

PRACTICALS

The record to be submitted by the students at the time of their annual examination has to include:

- Record of at least 8 Experiments [with 4 from each section], to be performed by the students.
- Record of at least 6 Activities [with 3 each from section A and section B], to be performed by the students.
- The Report of the project carried out by the students.

CHEMISTRY SYLLABUS (2023-2024): CLASS-XII

**	PERIODIC TEST -1		
•	<u>Chapters</u>	Blue Print PT-1	Marks
	✓ Ch- Solutions	MCQs (1 x7)	7
	✓ Ch- Electrochemistry	Assertion Reason Questions (1 x 2)	2
	✓ Ch- Chemical Kinetics	Short Answer Questions Type 1 (2 x 4)	8
		Short Answer Questions Type 2 (3 x 3)	9
		Case Study (4 x 1)	4
		Long Questions (5 x 2)	10
		Total	40
*	PRACTICALS		
	Volumetric Analysis	Blue Print Practicals	Marks
	Salt Analysis	Volumetric Analysis	10
	Practical Record and VIVA	Salt Analysis	10
		Practical Record and VIVA	10
		Total	30
*	First Term Exam		
•	Chapters	Blue Print First Term	Marks
	✓ Ch: Solutions	MCQs (1 x 12)	12
	✓ Ch: Electrochemistry	Assertion Reason Questions (1 x 4)	4
	✓ Ch: Chemical Kinetics	Short Answer Questions Type- 1 (2 x 5)	10
	✓ Ch: d- and f- Block Elements	Short Answer Questions Type- 2 (3 x 7)	21
	✓ Ch: Coordination Compounds	Case Study (4 x 2)	8
	✓ Ch: Haloalkanes and Haloarenes	Long Answer Questions (5 x 3)	15
		Total	70
*	Second Term Exam		
•	Chapters	Blue Print Second Term	Marks
	✓ Ch: Electrochemistry	MCQs (1 x 12)	12
	✓ Ch: Chemical Kinetics	Assertion Reason Questions (1 x 4)	4
	✓ Ch: Coordination Compounds	Short Answer Questions Type- 1 (2 x 5)	10
	✓ Ch: Haloalkanes and Haloarenes	Short Answer Questions Type- 2 (3 x 7)	21
	✓ Ch: Alcohols, Phenols and Ethers	Case Study (4 x 2)	8
	 ✓ Ch: Aldehydes, Ketones and Carboxylic Acids 	Long Answer Questions (5 x 3)	15
	✓ Ch: Amines	Total	70
			

❖ Pre Board- 1 and 2 – Full Syllabus
 ○ Blue Print will be same as given in Second Term

❖ Final PRACTICALS

Volumetric Analysis	Blue Print Practicals	Marks
Salt Analysis	 Volumetric Analysis 	08
Content Based Experiment	Salt Analysis	08
Project Work	 Content Based Experiment 	06
 Class Record and VIVA 	Project Work	04
	 Class Record and VIVA 	04
	Total	30

Marks Distribution

S.No.	Chapter Name	<u>Marks</u>
1.	Solutions	7
2.	Electrochemistry	9
3.	Chemical Kinetics	7
4.	d- and f- Block Elements	7
5.	Coordination Compounds	7
6.	Haloalkanes and Haloarenes	6
7.	Alcohols, Phenols and Ethers	6
8.	Aldehydes, Ketones and Carboxylic Acids	8
9.	Amines	6
10.	Biomolecules	7
	Total	70

Month	Chapter's Name		
April	Chapter : Solutions		
	Chapter : Electrochemistry		
May	Chapter : Kinetics		
June	Vacations		
July	Chapter: d- and f- Block Elements		
	Chapter: Coordination Compounds		
August	Chapter : Haloalkanes and Haloarenes		
September	First Term Examination	on	
October	Chapter : Alcohols, Phenols and Ethers		
	Chapter: Aldehydes, Ketones and	Carboxylic Acids	
November	Chapter : Amines		

	Chapter : Biomolecules
December	Revision + Second Term Exam
January	Revision + Pre board - 1 + Final Practicals
February	Revision + Pre Board – 2 + Final Practicals
March	Final Board Examination

Book References :		
1. NCERT Chemistry	2. Pradeep's New Course CHEMISTRY	

ENGLISH SYLLABUS (2023-2024): CLASS- XII

	PERIODIC TEST -1 (PT)	Blue Print PT-1	Marks
	Reading Comprehension:	✓ Reading	10
_	<u> </u>	Reduing	10
	 ✓ Unseen Passage (Factual, Descriptive or Literary) 		
		✓ Writing and Grammar	10
	✓ Case Based Passage (with verbal/ visual input)	Writing and Grammar	"
>	Writing Task:		
_		✓ Language and Literature	20
	✓ Notice Writing	✓ Language and Literature	20
	✓ Letter Writing (Application for Job with		
	bio data/ resume)	Total	40
>	<u>Literature (Flamingo)</u>	Total	40
	✓ Ch-1. The Last Lesson		
	✓ Ch-2. Lost Spring		
	✓ Ch-3. Deep Water		
	✓ Poetry- Keeping Quiet		
>	<u>Vistas</u> ✓ Ch-1. The Third Level		1
	✓ Cn-1. The Third Level ✓ Ch-2. The Tiger King		+
	V CII-2. The riger King		
*	SEA -1	<u> </u>	
	✓ ASL (Assessment of Speaking and Listening)	Blue Print SEA-1	Marks
	, to 2 (/ to o o o o o o o o o o o o o o o o o o	✓ Listening	5
		✓ Speaking	5
		Total	10
*	First Term Exam		
		Blue Print First Term	Marks
>	Reading Comprehension:		
	✓ Factual and Case based passages	➢ Section A (Reading)	
	- actual alla dace bacca paccages	✓ Unseen Passage-1	12
>	Writing Task:	✓ Unseen Passage-2	10
_	✓ Notice Writing	➤ Section B (Writing)	1
	✓ Invitation (Formal and Informal)	✓ Notice Writing	4
	✓ Letter Writing	✓ Invitation & Reply	4
	✓ Article Writing	✓ invitation a Reply	1
	✓ Report Writing	·	
	<u> </u>	✓ Letter Writing	5
>	Literature (Flamingo)		5
	✓ Ch-1. The Last Lesson	✓ Article and Report Writing	5
	✓ Ch-2. Lost Spring	> Literature 40	
	✓ Ch-3. Deep Water	✓ One Petry Extract (E)	6
	✓ Ch-4. The Rattrap	✓ One Prose Extract (V)	4
	✓ Ch-5. Indigo	✓ One Prose Extract (E)	6
	✓ Poems	✓ Short Answer Type Questions (E) (5 x 2)	10
	✓ My Mother in 66	✓ Short Answer Type	4
	iviy iviolitiet iti oo	Questions (V) (2 x 2)	"
		. EUDUNUUN (14 A 4)	I
	✓ Keening Quiet	`	5
	✓ Keeping Quiet✓ A Thing of Beauty	✓ One Long Answer Type (E) ✓ One Long Answer Type (V)	5

> <u>Vistas</u>		
✓ Ch-1. The Third Level		
✓ Ch-2. The Tiger King		
✓ Ch-3. Journey to the End of the Earth		
✓ Ch-4. The Enemy	Total	80

♦ SEA -2		
 ✓ ASL (Assessment of Speaking and Listening) 	Blue Print SEA-2	Marks
	✓ Listening	5
	✓ Speaking	5
	Total	10
❖ Second Term Exam		
	Blue Print Second Term	Marks
Reading Comprehension:		
✓ Descriptive and Literary passages	Section A (Reading)	
✓ Case Based factual passages	✓ Unseen Passage-1	12
Writing Task:	✓ Unseen Passage-2	10
✓ Report Writing	Section B (Writing)	
✓ Invitation and their replies	✓ Notice Writing	4
<u>Literature (Flamingo)</u>	✓ Invitation & Reply	4
✓ Ch-7. The Interview (Prose)	✓ Letter Writing	5
✓ Ch-8. Going Places	✓ Article and Report Writing	5
✓ Poetry- Aunt Jennifer's Tigers	Literature	40
> <u>Vistas</u>		
✓ Ch-6. On the Face of It		
✓ Ch-8. Memories of Childhood.		
✓ The Cutting of My Long Hair.		
✓ We Too Are Human Beings.	Total	80
First Term Syllabus		

Section	Competencies	Total Marks
Reading Skills	Conceptual understanding, decoding, Analyzing, inferring, interpreting, appreciating, literacy, conventions and vocabulary, summarizing and using appropriate format/s.	20
Creative Writing Skills	Conceptual understanding, application of rules, Analysis Reasoning, appropriacy of style and tone, using appropriate format and fluency, inference, analysis, evaluation and creativity.	20
Literature Text Books and Supplementary Reading Texts	Recalling, reasoning, critical thinking, appreciating literacy convention, inference, analysis, creativity with fluency.	40
	Total	80
	Assessment of Listening and Speaking Skills	10

SpeakingProject Work Grand Total	5 10 100
Internal Assessment • Listening	5

Month	Chapter's Name	
April	Reading Comprehension:	
	Unseen Passage (Factual, Descriptive or Literary)	
	Writing Skills: Notice Writing	
	Literature (Flamingo)	
	Ch-1. The Last Lesson	
	Ch-2. Lost Spring	
	Ch-3. Deep Water	
	Poetry: My Mother at Sixty- Six	
May	Reading Comprehension:	
	Case Based Passage (with verbal/ visual input)	
	Writing Skills: Notice Writing/ Letter Writing (Application for Job with bio data/ resume)	
	Literature (Flamingo)	
	Ch-4. The Rattrap	
	Poetry- Keeping Quiet	
	<u>Vistas</u>	
	Ch-1. The Third Level Ch-2. The Tiger King	
June	Vacations	
July	Reading- Factual Passages	
	Writing Task:	
	Formal/ Informal invitation and Replies	
	Article Writing (Analytical/ Descriptive)	
	Literature (Flamingo)	
	Ch-5. Indigo	
	Poetry- A Thing of Beauty	
	<u>Vistas</u>	
	Ch-3. Journey to the End of the Earth	

Month	Chapter's Name
August	Reading Skills- Factual and Unseen Passages
	Writing Task:
	Letter Writing (Letters to the Editor), Report Writing
	<u>Literature (Flamingo)</u>
	Ch-6. Poets and Pancakes
	Poetry. A Roadside's Stand
	Revision. (According to the Schedule)
	<u>Vistas</u>
	Ch-4. The Enemy
September	Revision + First Term Examination
October	Reading Skills- Descriptive and Literary passages
	Writing Task:
	Report Writing, Notice Writing (Descriptive and Analytical)
	<u>Literature (Flamingo)</u>
	Ch-7. The Interview (Prose)
	Poetry- Aunt Jennifer's Tigers
	<u>Vistas</u>
	Ch-6. On the Face of It
November	Reading Skills- Practice of Case Based Factual Passages
	Writing Task:
	Practice of Invitation and their replies
	(Formal/ Informal)
	Literature (Flamingo)
	Ch-8. Going Places
	Revision of Poems (Poetic devices/ poetry based extracts etc.)
	Vistas
	Ch-8. Memories of Childhood.
	* The Cutting of My Long Hair.
	* We Too Are Human Beings.
December	Revision + Second Term Exam
January	Revision + Pre board - 1 + Final Practicals
February	Revision + Pre Board – 2 + Final Practicals
March	Final Board Examination

MATHS SYLLABUS (2023-2024): CLASS- XII

❖ PERIODIC TEST -1			
> Chapters	Blue Print PT-1		Marks
✓ Ch-2: Inverse Trigonometric Functions	MCQ & Assertion Reason	(1x11)	11
✓ Ch-3: Matrices	Very Short Questions	(2x3)	06
✓ Ch-4: Determinants	Short Questions	(3x3)	09
✓ Ch-5: Continuity & Differentiability	Long Questions	(5x2)	10
	Cased based Questions	(4x1)	04
	Total		40
❖ SEA -1			
MCQs (Pen Paper Test) + Assertion Reason + Case Study	Blue Print SEA-1		Marks
VIVA Voce	MCQs		
	Assertion Reason		15
> Activities	Case Study		1
By Paper folding, make a box open at the top (Surface area, volume of the box)	VIVA Voce		05
	Total		20
❖ First Term Exam			
	Blue Print First Term		Marks
✓ Ch-2 Inverse Trigonometric Functions	MCQ & Assertion Reason	(1x20)	20
✓ Ch-3 Matrices	Very Short Questions	(2x5)	10
✓ Ch-4 Determinants	Short Questions	(3x6)	18
✓ Ch-5 Continuity & Differentiability	Long Questions	(5x4)	20
✓ Ch-6 Applications of Derivatives	Cased based Questions	(4x3)	12
✓ Ch-7 Integration			
✓ Ch-8 Application of Integration			
✓ Ch-9 Differential Equation			
✓ Ch-10 Vectors			
✓ Ch-12 Linear Programming	Total		80
❖ SEA-II			<u> </u>
MCQs (Pen Paper Test) + Assertion Reason + Case Study	Blue Print SEA-1		Marks
VIVA Voce	MCQs		
	Assertion Reason		15
	Case Study		1
> Activities	VIVA Voce		05
Graph Activity (Ch-12 Linear Programming)			
	Total		20

*	❖ Second Term Exam				
>	Chapters	Blue Print Second Term	Marks		
	✓ Ch-1 Relation & Functions	MCQ & Assertion Reason (1x20)	20		
	✓ Ch-2 Inverse Trigonometric Functions	Very Short Questions (2x5)	10		
	✓ Ch-3 Matrices	Short Questions (3x6)	18		
	✓ Ch-4 Determinants	Long Questions (5x4)	20		
	✓ Ch-5 Continuity & Differentiability	Cased based Questions (4x3)	12		
	✓ Ch-6 Applications of Derivatives				
	✓ Ch-7 Integration				
	✓ Ch-8 Application of Integration				
	✓ Ch-9 Differential Equation				
	✓ Ch-10 Vectors	Total	80		
	✓ Ch-11 Three Dimensional Geometry				
	✓ Ch-12 Linear Programming				
	✓ Ch-13 Probability				

❖ Pre Board 1 & 2- Full Syllabus
 ○ Blue Print will be same as given in Second Term
 Marks Distribution

Unit	<u>Chapter Name</u>	<u>Marks</u>
Unit- 1	Relation and Functions	
	Ch.1 Relationship and functions.	08
	Ch.2. Inverse trigonometric functions.	
Unit- 2	<u>Algebra</u>	
	Ch.3 Matrices	10
	Ch.4 Determinants	
Unit- 3	Calculus	
	Ch.5 Continuity and differentiability	
	Ch.6 Applications of derivatives.	35
	Ch. 7 Integration.	
	Ch.8 Application of integration.	
	Ch. 9 differential equations	
Unit- 4	Vectors and Three Dimensional Geometry	
	Ch. 10. Vectors.	14
	Ch.11. Three dimensional geometry	
Unit- 5	Linear programming	_
	Ch.12 Linear programming.	5
Unit- 6	Probability	
	Ch.13.Probability	8
	Total	80

Month	Chapter's Name
April	Ch-2. Inverse Trigonometric Functions
	Ch-3. Matrics
	Ch-4. Determinants
	Ch-5. Derivatives
May	Ch-10. Vectors
	Ch-12. Linear Programming
June	Ch-6. Application of Derivatives
	Vacations
July	Ch-7. Integration
	Ch-8. Application of Integration
August	Ch-9. Differential Equations
	Revision for 1 st Term
September	First Term Examination
October	Ch-11. Three Dimensional Geometry
	Ch-1. Relation & Functions
November	Ch-13. Probability
December	Revision + Second Term Exam
January	Revision + Pre board - 1 + Final Practicals
February	Revision + Pre Board – 2 + Final Practicals
March	Final Board Examination

BIOLOGY SYLLABUS (2023-2024): CLASS- XII

*	PERIODIC TEST -1			
>	Unit -VI: Reproduction	Blue Print	PT-1	Marks
	 ✓ Ch-1: Sexual reproduction in flowering plants 	MCQs	(1 x7)	7
	✓ Ch-2: Human reproduction	Assertion Reaso	n type (1 x 2)	2
	✓ Ch-3: Reproductive Health	Short Answer Qu Type 1	estions (2 x 4)	8
		Short Answer Qu Type 2	estions (3 x 3)	9
		Case Study	(4 x 1)	4
		Long Questions	(5 x 2)	10
		Total		40
>	Practical	Blue Print		Marks
	One major Experiment	One major Exper	iment	5
	One Minor Experiment	One Minor Exper	iment	4
	Slide Preparation	Slide Preparation	1	5
	Spotting	Spotting		7
	Practical Record	Practical Record		4
	• VIVA (Ch-1, 2, 4)	VIVA (Ch-1, 2, 4)		5
		Total		30
*	First Term Exam			<u> </u>
>	Unit -VI: Reproduction	Blue Print F	irst Term	Marks
	✓ Ch-1: Sexual reproduction in flowering plants	MCQs	(1 x 12)	12
	✓ Ch-2: Human reproduction	Assertion Reaso	n Questions (1 x 4)	4
	✓ Ch-3: Reproductive Health	Short Answer Qu Type- 1	estions (2 x 5)	10
		Short Answer Quarter 2	uestions (3 x 7)	21
>	Unit -VII: Genetics and Evolution	Case Study	(4 x 2)	8
	 ✓ Ch 4 Principles of Inheritance and Variation 	Long Answer Qu	estions (5 x 3)	15
	✓ Ch 5 Molecular basis of Inheritance	Total		70
	✓ Ch 6 Evolution			

*	Second Term Exam		
>	Unit -VII	Blue Print Second Term	Marks
	✓ Ch-4, 5, 6	MCQs (1 x 12)	12
~	Unit -VIII	Assertion Reason type	4
		Questions (1 x 4)	
	✓ Ch-7,8	Short Answer Questions	10
		Type- 1 (2 x 5)	
>	Unit -IX	Short Answer Questions	21
		Type- 2 (3 x 7)	
	✓ Ch-9,10	Case Study (4 x 2)	8
~	Unit -X	Long Answer Questions (5 x 3)	15
	✓ Ch-11, 12, 13	Total	70
>	Practical	Blue Print	Marks
	One major Experiment	One major Experiment	5
	One Minor Experiment	One Minor Experiment	4
	Slide Preparation	Slide Preparation	5
	Spotting	Spotting	7
	Practical Record + VIVA	Practical Record + VIVA	4
	Project Record + VIVA	Project Record + VIVA	5
		Total	30

❖ Pre Board 1 & 2 – Full Syllabus

o Blue Print will be same as same in Second Term Exam

Marks Distribution

Unit	Chapter Name	<u>Marks</u>
VI	Reproduction	16
	 ✓ Ch-1: Sexual reproduction in flowering plants ✓ Ch-2: Human reproduction ✓ Ch-3: Reproductive Health 	
VII	Genetics and Evolution ✓ Ch 4 Principles of Inheritance and Variation ✓ Ch 5 Molecular basis of Inheritance ✓ Ch 6 Evolution	20
VIII	Biology and human welfare ✓ Ch 7 Human health and diseases ✓ Ch 8 Microbes in human welfare	12
IX	Biotechnology and its Applications ✓ Ch 9 Biotechnology - Principles and processes ✓ Ch 10 Biotechnology and its applications	12
X	Ecology and Environment ✓ Ch 11 organisms and populations ✓ Ch 12 Ecosystem	10

✓ Ch 13 Biodiversity and its Conservation	
Total	70

Month	Chapter's Name
April	Ch 1 Sexual reproduction in flowering plants
	Ch 2 Human reproduction (Half)
May	Ch 2 Human reproduction (full)
	Ch 3 Reproductive health
	Ch 4 Principles of Inheritance and Variation (Half)
	Periodic Test
June	Vacations
July	Ch 4 Principles of Inheritance and Variation (full)
	Ch 5 Molecular basis of Inheritance (Half)
August	Ch 5 Molecular basis of Inheritance (full)
	Ch 6 Evolution
September	First Term Examination
October	Ch 7 Human health and diseases
	Ch 8 Microbes in human welfare
	Ch 9 Biotechnology - Principles and processes
	Ch 10 Biotechnology and its applications
November	Ch 11 organisms and populations
	Ch 12 Ecosystem
	Ch 13 Biodiversity and its Conservation
December	Revision + Second Term Exam
January	Revision + Pre board - 1 + Final Practicals
February	Revision + Pre Board – 2 + Final Practicals

March	Final Board Examination

Practicals:-

- A. List of Experiments
- 1. Prepare a temporary mount to observe pollen germination.
- 2.Study the plant population density by quadrat method.
- 3.Study the plant population frequency by quadrat method.
- 4. Prepare a temporary mount of onion root tip to study mitosis.
- 5. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.
- B. Study and observe the following (Spotting):
- 1. Flowers adapted to pollination by different agencies (wind, insects, birds).
- 2. Pollen germination on stigma through a permanent slide or scanning electron micrograph.
- 3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
- 4. Meiosis in onion bud cell or grasshopper testis through permanent slides.
- 5. T.S. of blastula through permanent slides (Mammalian).
- 6. Mendelian inheritance using seeds of different colours/sizes of any plant.
- 7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.
- 8. Controlled pollination emasculation, tagging and bagging.
- 9. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens.

 Comment on symptoms of diseases that they cause.
- 10.Models specimen showing symbiotic association in root nodules of leguminous plants, Cuscuta on host, lichens.
- 11. Flash cards models showing examples of homologous and analogous organs.

BOOK REFERENCES

NCERT BOOK

PRADEEP'S BIOLOGY

MUSIC SYLLABUS (2023-2024): CLASS- XII

❖ PERIODIC TEST -1 (PT)			
✓ Definitions - Alaap, ta	an, Gram ,	Blue Print	First Term	Marks
moorchhna , kann				
✓ Taal jhap		Section A M	CQ's (1x8)	80
✓ Raag- Bhairav - desc chhota khayal	ription and	Section B	(2x5)	10
❖ First Term Exam		Section C	(2x6)	12
 ✓ Definitions - Alaap,taa moorchhna,kann,mee 	_			
✓ Taal - Dhamaar		Total		30
✓ Sangeet ratnakar				
✓ Character sketch- Us	tad faiyaz khan			
✓ Raag Bhairav and ma Description and chho				
OFOOND Town From		Disc Duint	O T	Manta
SECOND Term Exam			Second Term	Marks
		Section A M	, ,	80
✓ Definitions - Khatka , alaap , taan	kurki,gamak ,	Section B	(2x5)	10
✓ Sangeet parijat		Section C	(2x6)	12
✓ Time Theory of Raga	S			
✓ PT krishn Rao shanka Ghulam Ali Khan	ar and Bade	Total		30
✓ Raag bageshri				
✓ Taal roopak , jhap an	d dhamar			
✓ Dhamar in raag malke				
 Pre Board 1 & 2- Full Syll Blue print will be s 		Second Term		
* PRACTICALS				
✓ Raag Bhairav and ma	alkons			
✓ Dhamar taal				
✓ Patriotic or devotiona	Isong			
		1		1

Month	Chapter's I	Name	
April - May	<u>Definitions</u>		
	Alankar	Alaap	Taan
	Gamak	Gram	Moorchhna
	Character s	d Faiyaz Khan	
	Practical -R (Description		v on of Chota Khayal)

June	Vacations
July- August	<u>Definitions</u>
	Khatka Murki Kan Meend
	Sangeet Ratnakar
	Time Theory of Ragas
	Practical - Dhamar Taal
	Raag Malkons
	(Description and Notation of Chota Khayal)
September-	Sangeet Parijaat
October	Time theory of ragas
	Character sketch- Pt Krishna Rao Shankar
	Practical - Dhamar in Raag malkons
November	character sketch- Bade Ghulam Ali
	Taanpura
December	Practical –
	Raag Bageshri (Description and Notation of Chhota Khayal and Bada Khayal)
	TARANA in any Raag
	Revision + Second Term Exam
January	Revision + Pre Board 1 + Final Practicals
February	Revision + Pre Board 2 + Final Practicals
March	Final Board Examination

PHYSICAL EDUCATION SYLLABUS (2023-2024): CLASS-XII

*	PERIODIC TEST -1 (PT)		
>	Chapters	Blue Print PT-1	Marks
	✓ Management of Sporting Events.	MCQ (1 X 7)	6
	✓ Yoga as a Preventive Measure for Lifestyles Disease	Very Short Question (2 x 3)	6
	✓ Test and Measurement in Sports	Short Question (3 x 3)	9
	•	Case Study (4x 2)	8
		Long Questions (5 x 2)	10
		Total	40
			•
		Blue Print	Marks
~	Practical Work	Physical Fitness Test (Sai Khelo India Test, BPET)	6
		Skill of any one recognised game of choice	7
		Yoga Practices	7
		VIVA Voce	5
		Record File	5
		Total	30
*	First Term Exam		
>	Chapters	Blue Print First Term	Marks
	 Management of Sporting Events. 	MCQ (1 X 18)	18
	✓ Children and women in sports	Very Short Question (2 x 5)	10
	✓ Yoga	Short Question (3 x 5)	15
	✓ Physical Education and Sports for CWSN	Case Study (4x 3)	12
	✓ Test and Measurement in Sports	Long Questions (5 x 3)	15
-		Total	70
*	Second Term Exam		
>	Chapters	Blue Print Second Term	Marks
	 Management of Sporting Events. 	MCQ (1 X 18)	18
	✓ Children and women in sports	Very Short Question (2 x 5)	10
	✓ Yoga	Short Question (3 x 5)	15
	✓ Physical Education and Sports for CWSN	Case Study (4x 3)	12
	✓ Sports and Nutrition	Long Questions (5 x 3)	15
	✓ Test and Measurement in Sports		
	✓ Physiology and Injuries in Sports		
	✓ Biomechanics and Sports		
	✓ Psychology and Sports		
	✓ Training in Sports	Total	70
Pr	e Board 1 & 2 (Full Syllabus)		

UNIT NO.	UNIT NAME	Marks
1	Management of Sporting Events.	9
2	Children and Women in Sports	7
3	Yoga as a Preventive Measure for Lifestyles Disease	7
4	Physical Education and Sports for CWSN	8
5	Sports and Nutrition.	7
6	Test and Measurement in Sports.	8
7	Physiology and Injuries in Sports.	8
8	Biomechanics and Sports	10
9	Psychology and Sports	7
10	Training in Sports	9
	PRACTICAL	30
	TOTAL	100

Month	Chapter Name		
April	Ch-3 Yoga as a preventive measure for lifestyle disease. Ch-6 Test and Measurement in Sports.		
May	Ch-1 Management of sporting events. Ch-2 Children and women in sports.		
June	Holidays		
July	Ch-4 Physical Education and Sports for CWSN. + Revision		
August	Ch-5 Sports and Nutrition. Ch-7 Physiology and Injuries in sports. + Revision		
September	1st Term Examination		
October	Ch-8 Biomechanics and Sports. Ch-9 Psychology and Sports.		
November	Ch-10 Training in Sports. + Revision		
December	Revision + Second Term		
January	Revision + Pre Board 1 + Final Practicals		
February	Revision + Pre Board 2 + Final Practicals		
March	Final Term Exam		

INFORMATION TECHNOLOGY SYLLABUS (2023-2024): CLASS- XII

*	PERIODIC TEST -1 (PT)			
A	Part A:	Blue Print	PT-1	Marks
	✓ Unit 3: ICT Skill-IV	Objective type Ques	stions (1x14)	14
>	Part B:	Short Question	(2 x 6)	12
	✓ Unit 1: Database Concepts	Short Question	(3 x 2)	6
		Long Questions	(4 x 2)	8
		Total		40
>	Practical Work	Blue Print Practi	cal Exam	Marks
	✓ SQL Commands	Practical Work		20
	✓ Basic Java Programming	Practical File		10
	Basis Gava i regianning	VIVA Voce		5
		Total		40
*	First Term Exam			
>	Part A:	Blue Print First	Геrm	Marks
	✓ Unit 1: Communication Skills-IV	Objective type Ques	stions (1x30)	30
	✓ Unit 3: ICT Skills-IV	Short Question	(2 x 6)	12
>	Part B:	Short Question	(3 x 2)	6
	✓ Unit -1 : Database Concepts	Long Questions	(4 x 3)	12
	✓ Unit-3: JAVA - Fundamentals of Java programming			
		Total		60
*	Second Term Exam			
✓	Part A:	Blue Print Seco	nd Term	Marks
	✓ Unit 2: Self-Management Skills-IV	Objective type Ques	stions (1x30)	30
	✓ Unit 4: Entrepreneurial Skills-IV	Short Question	(2 x 6)	12
	✓ Unit 5: Green Skills-IV	Short Question	(3 x 2)	6
		Long Questions	(4 x 3)	12
✓	Part B:	Total		60
	✓ Unit -2 : Operating Web Based Applications			
	✓ JAVA - Fundamentals of Java programming			
	✓ Unit-4: Work Integrated Learning IT			
Pre	eboard-1 (Full Syllabus)			
Pre	eboard-2 (Full Syllabus)			
Fir	nal Board: Practicals			

Total Marks: 100 (Theory: 60 + Practical: 40)

Part-A	MARKS
Unit 1 : Communication Skills- IV	2
Unit 2 : Self-Management Skills- IV	3
Unit 3 : ICT Skills- IV	1
Unit 4 : Entrepreneurial Skills- IV	3
Unit 5 : Green Skills- IV	1
Total	10
Part B	
Unit -1 : Database Concepts – RDBMS Tool	15
Unit -2 : Operating Web Based Applications	10
Unit-3: JAVA - Fundamentals of Java programming, Introduction to Java, Object Oriented Programming, Java Language Elements, Operators, Control Flow, Array, Class Design, Exception Handling, Assertions, Threads, Wrapper Classes, String Manipulation.	20
Unit-4: Work Integrated Learning IT – DMA	5
Total	50
Part-C	
Practical Work	35
Part-D	
Project Work	5
GRAND TOTAL	100

Month	Content
April	Part-A
•	Unit-3 ICT Skills-IV
	Part-B
	Unit-1 DATABASE CONCEPTS – RDBMS TOOL
	Creating and populating tables.
May	Part-B
_	Unit-1 DATABASE CONCEPTS – RDBMS TOOL
	Modifying the content and structure of table.
	Ordering and Grouping.
	Operating with multiple tables.
June	Summer Vacations
July	Part- B
· · · · · ·	Unit-3 Fundamentals of Java Programming
	Introduction to Java,
	Object Oriented Programming,
	Java Language Elements,
	Operators, Control Flow

Month	Content
August	Unit-3 Fundamentals of Java Programming (Contd) Array, Class Design, Exception Handling, Assertions, Threads Wrapper Classes, String Manipulation Part -A Unit 1 : Communication Skills- IV
	September- First Term Examination
October	Part – B Unit-2 Operating Web Based Applications Online Reservation Systems. E-Governance. Online Shopping and Bill payments. Online Tutorials and Tests. Project Management – Web Based Application development. Project essentials and tips. Case Study - Online Game. Case Study - Online Quiz. Case Study – Online Bill Calculator. Part -A Unit 2 : Self-Management Skills- IV
November	 Unit-4 Work Integrated Learning IT – DMA Identification of Work Areas. Work Experience. Part -A Unit 4 : Entrepreneurial Skills- IV Unit 5 : Green Skills- IV
December	Revision of Part B + Second Term Examination
January	Revision of Part A + Pre Board- 1 + Final Practical
February	Revision + Pre Board 2 + Final Practical
	March- Final Term Examination

ARTIFICIAL INTELLIGENCE SYLLABUS (2023-2024): CLASS- XII

*	PERIODIC TEST -1 (PT)		
>	Part B: Subject Specific Skills-THEORY	Blue Print PT-1	Marks
	✓ Unit 1: Capstone Project	Objective type Questions (1 X 14)	14
		Short Question (2 x 7)	14
		Long Questions (4 x 3)	12
		Total	40
		Blue Print Practical Exam	Marks
A	Project Work	VIVA Voce	20
		Project File	30
		Total	50
*	First Term Exam		
>	Part A: Employability Skills	Blue Print First Term	Marks
	✓ Unit 1: Communication Skills-IV		
	✓ Unit 3: ICT Skills-IV	Objective type Questions (1 X 24)	24
>	Part B: Subject Specific Skills-THEORY	Short Question (2 x 7)	14
	✓ Unit 1: Capstone Project	Long Questions (4 x 3)	12
	✓ Unit 2: Model Lifecycle		
	✓ Unit 3: Story- telling Through Data		
		Total	50
*	Second Term Exam	•	-
✓	Part A: Employability Skills	Blue Print Second Term	Marks
	✓ Unit 2: Self-Management Skills-IV	Objective type Questions (1 X 24)	24
	✓ Unit 4: Entrepreneurial Skills-IV	Short Question (2 x 7)	14
	✓ Unit 5: Green Skills-IV	Long Questions (4 x 3)	12
✓	Part B: Subject Specific Skills-THEORY	Total	50
	✓ Unit 1: Capstone Project		
	✓ Unit 2: Model Lifecycle		
	✓ Unit 3: Story- telling Through Data		
	eboard-1 (Full Syllabus)		
	eboard-2 (Full Syllabus)		
Fii	nal Board Practicals		

Total Marks:100 (Theory: 50 + Practical: 50)

Part-A (Employability Skills)	MAX. MARKS
Unit 1: Communication Skills-IV	2
Unit 2: Self-Management Skills-IV	2
Unit 3: ICT Skills-IV	2
Unit 4: Entrepreneurial Skills-IV	2
Unit 5: Green Skills-IV	2
Total	10
Part-B (Subject Specific Skills-THEORY)	
Unit 1: Capstone Project	10
Unit 2: Model Lifecycle	10
Unit 3: Storytelling Through Data	20
Total	40
Part-C (Student Capstone Project -PRACTICAL)	
Student Al project Development & Presentation (Team work): Submission of	50
Project Logbook and Video presentation	
Total	50
GRAND TOTAL	100

Month	Content
April	Part-A Unit-1 ICT Skills-IV Part-B Unit 1: Capstone Project • Understanding the problem • Decomposing the problem through DT framework
May	 Unit 1: Capstone Project(Contd) Analytic Approach Data Requirements Data Collection Modelling approach How to validate model quality By test-train split Introduce concept of cross validation Metrics of model quality by simple Maths and examples from small datasets scaled up to capstone project (Apply) RMSE- Root Mean Squared Error MSE – Mean Squared Error

Unit 1: Capstone Project(Contd) > MAPE - Mean Absolute Percent Error Introduction to commonly used algorithms and the science behind them Showcase through a compelling story Unit 2: Model Ilfecycle Different aspects of Model > Train, test, validate, > What are hyper parameters > Commonly used platforms to build and run models (Introduction) > Recommended tools > Links to different platforms • Watson • Lifecycle of an Al model > Build Deploy Retrain Open Part A Unit 3: Story-telling through data • The Need for Storytelling > Information processing and recalling stories > Why is storytelling important? > Structure that story! • How to create stories? > Begin with a pen-paper approach > Dig deeper to identify the sole purpose of your story > Use powerful headings > Design a Road-Map > Conclude with brevity • Ethics of storytelling • Types of Data and Suitable Charts > Text [Word clouds] > Mixed [Facet Grids] > Mixed [Facet Grids] > Mixed [Facet Grids] > Stocks [Candlestick Charts] > Geographic [Maps] Project Work September - First Term Examination October Unit 3: Story- telling through data (contd) > Data Exploration Feature Visualizing > Model Creation Model Comparisons Part - A Unit 1: Communication Skills - IV Unit 5: Green Skills - IV Project Work December Revision of Part B + Second Term Examination Revision of Part A + Pre Board - 1 + Final Practical February Revision of Part A + Pre Board - 1 + Final Practical February Project Work Pr	June	Summer Vacations	
The Need for Storytelling Information processing and recalling stories Why is storytelling important? Structure that story! How to create stories? Begin with a pen-paper approach Dig deeper to identify the sole purpose of your story Use powerful headings Design a Road-Map Conclude with brevity Ethics of storytelling Types of Data and Suitable Charts Text [Word clouds] Numeric [Line Charts/ Bar Charts] Stocks [Candlestick Charts] Stocks [Candlestick Charts] Geographic [Maps] Project Work September- First Term Examination October Unit 3: Story- telling through data (contd) Data Exploration Feature Visualizing Model Creation Model Comparisons Part -A Unit 1: Communication Skills- IV Project Work November Part -A Unit 2: Self-Management Skills- IV Unit 5: Green Skills- IV Unit 5: Green Skills- IV Project Work Revision of Part B + Second Term Examination	July	 MAPE – Mean Absolute Percent Error Introduction to commonly used algorithms and the science behind them Showcase through a compelling story Unit 2: Model lifecycle Different aspects of Model Train, test, validate, What are hyper parameters Commonly used platforms to build and run models (Introduction) Recommended tools Links to different platforms Watson Lifecycle of an Al model 	
October Unit 3: Story- telling through data (contd) Data Exploration Feature Visualizing Model Creation Model Comparisons Part -A Unit 1: Communication Skills- IV Project Work November Part -A Unit 2: Self-Management Skills- IV Unit 4: Entrepreneurial Skills- IV Unit 5: Green Skills- IV Project Work December Revision of Part B + Second Term Examination January Revision of Part A + Pre Board- 1 + Final Practical	August	 The Need for Storytelling Information processing and recalling stories Why is storytelling important? Structure that story! How to create stories? Begin with a pen-paper approach Dig deeper to identify the sole purpose of your story Use powerful headings Design a Road-Map Conclude with brevity Ethics of storytelling Types of Data and Suitable Charts Text [Word clouds] Mixed [Facet Grids] Numeric [Line Charts/ Bar Charts] Stocks [Candlestick Charts] Geographic [Maps] 	
 Data Exploration Feature Visualizing Model Creation Model Comparisons Part -A		September- First Term Examination	
November Part -A Unit 2 : Self-Management Skills- IV Unit 4 : Entrepreneurial Skills- IV Unit 5 : Green Skills- IV Project Work December Revision of Part B + Second Term Examination January Revision of Part A + Pre Board- 1 + Final Practical	October	 Data Exploration Feature Visualizing Model Creation Model Comparisons Part -A Unit 1 : Communication Skills- IV 	
December Revision of Part B + Second Term Examination January Revision of Part A + Pre Board- 1 + Final Practical	November	Part -A Unit 2 : Self-Management Skills- IV Unit 4 : Entrepreneurial Skills- IV Unit 5 : Green Skills- IV	
· · · · · · · · · · · · · · · · · · ·	December		
February Revision + Pre Board 2 + Final Practical	January	Revision of Part A + Pre Board- 1 + Final Practical	
	February	Revision + Pre Board 2 + Final Practical	