

Guru Nanak International Public (Senior Secondary) School
Model Town, Ludhiana
Syllabus for Class-XII (Science Stream)
Session - 2024-25

TERMS:

Classes I to V

The whole syllabus will be divided into 4 periodic units.

Periodic Test 1 -	May
Periodic Test 2 -	September
Periodic Test 3 -	December
Periodic Test 4 -	March

Classes VI to X

1. No Semester System
2. Final Evaluation will be based on Annual Examination (Board Exams for class X) & Internal Assessment.
3. Full syllabus exam at the end of the session for classes IX & X.
4. 75% syllabus exam at the end of the session for classes VI to VIII.
5. 3 Periodic Tests will be conducted as per the following schedule:

Term	Month
Periodic Test 1	- May
Half Yearly	- September
Periodic Test 2	- December
Annual	- March

6. Weightage division will be as follows:

- ❖ 80% marks exam & 20% marks internal assessment for each subject.
- ❖ Internal Assessment will comprise of Periodic Tests, Subject Enrichment Activities, Notebook maintenance & Discipline.

Classes XI & XII

1. Annual Examination (Board Exam for Class XII) will take place at the end of the session covering the Syllabus. Besides, 3 periodic tests will be held as mentioned above.
2. For Class XI, 40% of marks obtained by a child in Periodic Tests, Half Yearly & 60% of marks obtained in Examination are carried for the final consolidated result of the child.

Note: A student must get 40% marks in each subject & in aggregate to qualify himself/ herself for promotion to the next class

Syllabus of Class XII - Science Stream Session (2024-25)
APRIL

<u>ENGLISH</u>	<u>CHEMISTRY</u>
<p>Books Prescribed : 1. Flamingo 2. Vistas</p> <p>Section - A : Comprehension Passage</p> <p>Section - B : Notice Writing Invitations Report (for Newspaper) Article Writing Application for Job</p> <p>Section - C</p> <p>Flamingo : The Last Lesson Lost Spring The Rattrap Indigo</p> <p>Poetry : My Mother at Sixty-Six Keeping Quiet</p> <p>Vistas : The Third Level The Enemy</p>	<p>Books Referred : NCERT Chemstiry for XII Modern abc of Chemistry</p> <p>Unit I : Solution</p> <p>Unit II : Electrochemistry</p> <p>Practical : Detection of Functional Groups of Organic Compounds</p>
	<u>BIOLOGY</u>
	<p>Book Referred : Biology - A Text book for Class XII (NCERT)</p> <p>Chapter 1 : Sexual Reproduction in flowering plants</p> <p>Chapter 2 : Human Reproduction</p> <p>Chapter 3 : Reproductive Health</p> <p>Practicals : 1. To study pollen germination on a slide (temporary mount)</p> <p style="margin-left: 20px;">2. To study pollination in flowers</p> <p style="margin-left: 20px;">3. To study gametogenesis by permanant slides.</p> <p style="margin-left: 20px;">4. V.S. Blastula</p> <p style="margin-left: 20px;">5. Emasculation and Bagging</p>
<u>PHYSICS</u>	
<p>Book Referred : 1. New Simplified Physics by S.L. Arora for XII (Vol. I and Vol II) 2. Comprehensive Practical Physics for Class 12</p> <p>Unit - 1 : Chapter 1 - Electric Charges and Fields Chapter 2 - Electrostatic Potential & Capacitance</p> <p>Unit - 6 : Chapter 9 - Ray optics & optical Instruments. Chapter 10 - Wave Optics</p> <p>Practical : 1. To find the value of v for different values of u in case of concave mirror and to find focal length 2. To find focal length of a convexlens by plotting graph between u and v or between 1/u and 1/v</p>	

Syllabus of Class XII - Science Stream Session (2024-25)

MAY

<u>ENGLISH</u>		<u>CHEMISTRY</u>	
Section - A : Comprehension Passage Section - C : Vistas : On the Face of it		Unit III : Chemical Kinetics Unit IV : d & f Block Elements	
	Periodic Test - I		Periodic Test - I
		<u>BIOLOGY</u>	
		Chapter 4 : Principles of Inheritance and Variations Chapter 5 : Molecular Basis of Inheritance Practicals : 1. To study Pedigree Charts 2. To study Laws of Inheritance	
			May Unit Test-I
<u>PHYSICS</u>			
Unit - 9 : Chapter 14 - Semiconductor Electronics : Materials, Devices and Simple Circuits Unit - 2 : Chapter 3 - Current Electricity			
	Periodic Test - I		

<u>MATHEMATICS</u>	<u>HINDUSTANI MUSIC VOCAL</u>
<p>Chapter 6 : Application of Derivatives Chapter 1 : Relation and Functions</p> <p>Periodic Test - I</p>	<p>Theory : Knowledge of tuning of tanpura</p> <p>Periodic Test - I</p>
<u>PHYSICAL EDUCATION</u>	<u>PAINTING</u>
<p>Unit - II : Children & Women in Sports Unit - III : Yoga as preventive measure for lifestyle disease</p> <p>Periodic Test - I</p>	<p>B) The Pahari School of Miniature Painting</p> <ol style="list-style-type: none"> 1) Origin and Development 2) Sub-Schools 3) Main Features 4) Appreciation of the following Paintings : <ol style="list-style-type: none"> (i) Krishna with Gopis (ii) Nand, Yashoda and Krishna with Kinsmen going to Vrindavana <p>Periodic Test - I</p>
<u>INFORMATION TECHNOLOGY</u>	<u>HEALTH AND PHYSICAL-EDUCATION [HPE]</u>
<p>Part - B : Unit 2 Operating Web Based Applications Part - A : Unit 1 Communication Skills</p> <p>May Unit Test</p>	<p style="text-align: center;">APRIL TO JULY</p> <p>STRAND - I (I. Athletics II. Games)</p> <p>Activity : I. Warming up and conditioning exercise. II. Track and field event. III. Types of Start, Types of event, Technique of event IV. Games : i) Basketball iii) Softball ii) Football iv) Volleyball v) Badminton vi) Baseball</p> <p>Periodic Test-I</p>
<u>FINANCIAL MARKETS MANAGEMENT</u>	
<p>Chapter 2 : Trading Employability Skills : Unit - 2 Practical : NSE SMART Periodic Test 1</p>	

Syllabus of Class XII - Science Stream Session (2024-25)
JULY

<u>ENGLISH</u>	<u>CHEMISTRY</u>
<p>Section - A : Comprehension Passage</p> <p>Section - B : Invitations (Replies) Article Report</p> <p>Section - C Flamingo : Deep Water Poets & Pancakes Interview</p> <p>Poetry : Aunt Jennifer's Tigers</p> <p>Vistas : The Tiger King</p>	<p>Unit V : Co-ordination Compounds</p> <p>Unit VI : Haloalkanes and Haloarenes</p> <p>Practicals : Detection of functional group in given organic compounds.</p>
	<u>BIOLOGY</u>
	<p>Chapter 6 : Evolution</p> <p>Chapter 7 : Microbes in Human Welfare</p> <p>Practicals:</p> <ol style="list-style-type: none"> 1. To prepare temporary mount of onion root tip to study mitosis. 2. To study homologous & analogous organs.
<u>PHYSICS</u>	
<p>Unit - 3 : Chapter 4 - Moving Charges and Magnetism Chapter 5 - Magnetism and Matter</p> <p>Practical : 3. To determine angle of minimum deviation of a given prism. 4. To draw the I-V characteristic curve for a p-n junction diode.</p>	

<u>MATHEMATICS</u>	<u>HINDUSTANI MUSIC VOCAL</u>
<p>Chapter 2 : Inverse Trigonometric Functions Chapter 10 : Vector Algebra Chapter 11 : Three Dimensional Geometry</p>	<p>Theory : Historical Development of Time Theory of Raags Practical : 1) Vilambit Khayal in Raag Bageshwari 2) Rupak Taal on hand beats 3) Alankars in rupak taal</p>
<u>PHYSICAL EDUCATION</u>	<u>PAINTING</u>
<p>Unit - IV : Physical Education & Sports for (CWSN) Unit - V : Sports & Nutrition Record File Practical I : Fitness Test Administration Practical II : Procedure for Asana, benefits & Contraindication for any two asana for each lifestyle disease.</p>	<p>Unit - 2 : A) The Mughal School of Miniature Painting 1) Origin and Development 2) Main Features 3) Appreciation of the following paintings (i) Krishna lifting Mount Govardhana (ii) Kabir and Raidas (iii) Falcon on a Bird Rest (iv) Marriage procession of Darashikoh</p>
<u>INFORMATION TECHNOLOGY</u>	<u>HEALTH AND PHYSICAL-EDUCATION [HPE]</u>
<p>Part - B : Unit 3 Fundamentals of Java Programming</p>	<p style="text-align: center;">APRIL TO JULY</p> <p>STRAND - I (I. Athletics II. Games) Activity : I. Warming up and conditioning exercise. II. Track and field event. III. Types of Start, Types of event, Technique of event IV. Games : i) Basketball iii) Softball ii) Football iv) Volleyball v) Badminton vi) Baseball</p> <p>Periodic Test-I</p>
<u>FINANCIAL MAREKTS MANAGEMENT</u>	
<p>Chapter 2 : Trading Employability Skills : Unit - 3 Practical : NSE SMART</p>	

Syllabus of Class XII - Science Stream Session (2024-25)
AUGUST

<u>ENGLISH</u>	<u>CHEMISTRY</u>
<p>Section - A : Comprehension Passage Section - B : Editorial Letters</p> <p>Section - C Flamingo : Going Places Poem : A Roadside Stand</p> <p>Vistas : Journey to the End of the Earth</p> <p>* Art Integrated Activity & Project</p> <p>* ALS (Assessment of Listening & Speaking Skills & Project)</p>	<p>Unit VII : Alcohols, Phenols & Ethers</p> <p>Unit VIII : Aldehydes, ketones & carboxylic acids</p> <p>Practical : Salt Analysis</p>
	<u>BIOLOGY</u>
	<p>Chapter 8 : Human Health and diseases Practicals : 1. To Study disease causing organisms.</p>
<u>PHYSICS</u>	
<p>Unit - 4 : Chapter 6 - Electromagnetic Induction Chapter 7 - Alternating Currents</p> <p>Practical : 5. To determine resistivity of wires by plotting a graph for potential difference versus current 6. To find resistance of a wire using metre bridge.</p>	

<u>MATHEMATICS</u>	<u>PAINTING</u>																																																			
Chapter 7 : Integrals Chapter 8 : Applications of Integrals Chapter 9 : Differential Equations	B) The Deccan School of Miniature Painting 1) Origin and Development 2) Main Features 3) Appreciation of the following Paintings : (i) Hazrat Nizamuddin Auliya and Amir Khusro (ii) Chand Bibi Playing Polo																																																			
<u>PHYSICAL EDUCATION</u>																																																				
Unit VI : Test & Measurement in Sports Unit VII : Physiology & Injuries in Sports Yogic Exercise																																																				
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Part - A : Unit 2 Self-Management Skills Unit 3 Basic ICT Skills	AUG. TO OCT. STRAND - II (Health and Fitness) Part - I Activity : I. Mass P.T. Yoga, Jogging, Aerobic II. Technique of Start, Finishing III. Technique of Track & Field Events Part - II Health and Activity Record																																																			
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<u>HINDUSTANI MUSIC VOCAL</u>																																																				
Theory : 1) Detailed study of Sangeet Ratnakar 2) Life Sketch of Faiyaz Khan, Bade Gulam Ali Khan and Krishna Rao Shankar Pandit Practical : 1) One Drut Khayal in Raag Bhairav 2) One Tarana in Raag Bhairav 3) Alankars in Raag Bhairav																																																				

Syllabus of Class XII - Science Stream Session (2024-25)
SEPTEMBER

<u>ENGLISH</u>	<u>CHEMISTRY</u>
First Term Examination	First term Examination
	<u>BIOLOGY</u>
	<p>Chapter 9 : Biotechnology - Principles and Processes Chapter 10 : Biotechnology and its applications Practicals : To isolate DNA from a given plant material.</p> <p style="text-align: center;">First Term Examination</p>
<u>PHYSICS</u>	
<p>Unit - 5 : Chapter 8 - Electromagnetic Waves Unit - 7 : Chapter 11 - Dual Nature of Radiation and Matter</p> <p>First Term Examination</p>	

<u>MATHEMATICS</u>	<u>HINDUSTANI MUSIC VOCAL</u>																																																			
<p>Chapter 12 : Linear Programming First Term Examination</p>	<p>Practical : Dhamar Taal on hand beats First Term Examination</p>																																																			
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<p>First Term Examination</p>	<p style="text-align: center;">AUG. TO OCT. STRAND - II (Health and Fitness) Part - I Activity : I. Mass P.T. Yoga, Jogging, Aerobic II. Technique of Start, Finishing III. Technique of Track & Field Events Part - II Health and Activity Record</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Fitness Components</td> <td style="width: 33%;">Fitness Parameters</td> <td style="width: 33%;">Test Name</td> </tr> <tr> <td>Health Components</td> <td>Body Composition</td> <td>BMI</td> </tr> <tr> <td></td> <td>Muscular Strength</td> <td>Partial Curl Up</td> </tr> <tr> <td></td> <td></td> <td>Modified Pushups</td> </tr> <tr> <td></td> <td></td> <td>Pushups</td> </tr> <tr> <td></td> <td></td> <td>Sit and Reach Test</td> </tr> <tr> <td></td> <td></td> <td>600 Mt Run</td> </tr> <tr> <td></td> <td></td> <td>Flamingo Balance</td> </tr> <tr> <td>Skill Components</td> <td>Flexibility</td> <td></td> </tr> <tr> <td></td> <td>Endurance</td> <td></td> </tr> <tr> <td></td> <td>Balance</td> <td></td> </tr> <tr> <td></td> <td>Test</td> <td></td> </tr> <tr> <td></td> <td>Agility</td> <td>Shuttle Run</td> </tr> <tr> <td></td> <td>Speed</td> <td>Sprint/Dash</td> </tr> <tr> <td></td> <td>Power</td> <td>Standing/Vertical Jump</td> </tr> <tr> <td></td> <td>Coordination</td> <td>Plate Tapping</td> </tr> <tr> <td></td> <td></td> <td>Toss Test, Handball</td> </tr> </table>	Fitness Components	Fitness Parameters	Test Name	Health Components	Body Composition	BMI		Muscular Strength	Partial Curl Up			Modified Pushups			Pushups			Sit and Reach Test			600 Mt Run			Flamingo Balance	Skill Components	Flexibility			Endurance			Balance			Test			Agility	Shuttle Run		Speed	Sprint/Dash		Power	Standing/Vertical Jump		Coordination	Plate Tapping			Toss Test, Handball
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Syllabus of Class XII - Science Stream Session (2024-25)
OCTOBER

<u>ENGLISH</u>	<u>CHEMISTRY</u>
<p>Section - A : Comprehension Passage Section - B : Report (For School Magazine) Section - C Flamingo : A Thing of Beauty Vistas : Memories of Childhood</p>	<p>Unit IX : Organic compounds containing nitrogen Unit X : Biomolecules Practicals : Revision</p>
	<u>BIOLOGY</u>
	<p>Chapter 11 : Organisms and Populations Chapter 12 : Ecosystem Chapter 13 : Bio-diversity and its Conservation Practicals : 1. Study of population density & frequency of plants by quadrat method. 2. To study plant interactions.</p>
<u>PHYSICS</u>	
<p>Unit - 8 : Chapter 12 - Atoms Chapter 13 - Nuclei</p> <p>Practical : 7. To verify the laws of combination (series) of resistances using a metre bridge. 8. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.</p>	

<u>MATHEMATICS</u>	<u>HINDUSTANI MUSIC VOCAL</u>																																										
Chapter 13 : Probability	Theory : 1) Brief Study of Gram, Murchhana, Kan, Khatka, Murki 2) Detailed Study of Sangeet Parijaat Practical : 1) One Drut Khayal in Raag Malkauns 2) One Dhamar in Raag Malkauns 3) Alankars in Raag Malkauns and Rupak taal																																										
<u>PHYSICAL EDUCATION</u>																																											
Unit VIII : Biomechanics & Sports Unit IX : Psychology & Sports Viva Voice (Health/ Games/ Sports/ Yoga)																																											
<u>INFORMATION TECHNOLOGY</u>																																											
Part - B : Unit 4 Work Integrated Learning IT-DMA Part - A : Unit 4 Entrepreneurship Skills Part - A : Unit 5 Green Skills	<u>HEALTH AND PHYSICAL-EDUCATION [HPE]</u>																																										
<u>FINANCIAL MAREKTS MANAGEMENT</u>	AUG. TO OCT.																																										
Chapter 5 : Introduction to Derivatives Chapter 6 : Future Contracts, Mechanism and Pricing Employability Skills : Unit - 4 & 5 Practical : NSE SMART	STRAND - II (Health and Fitness) Part - I Activity : I. Mass P.T. Yoga, Jogging, Aerobic II. Technique of Start, Finishing III. Technique of Track & Field Events Part - II Health and Activity Record																																										
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Unit - 3 : A) The Bengal School 1) Introduction 2) Origin and Development 3) Main Features 4) Appreciation of the following Paintings : (i) Journey's End (ii) Shiv and Sati (iii) Radhika (iv) Meghdoot 5) Contribution of Indian artists in the struggle of National Freedom Movement. 6) National Flag of India and the Symbolic Significance of its forms and colours. B) The modern trends in Indian Art 1) Appreciation of the following Contemporary (Modern) Indian Art : (i) Paintings (ii) Graphic - Prints (iii) Sculptures																																											

Syllabus of Class XII - Science Stream Session (2024-25)
NOVEMBER

ENGLISH

Revision Test

CHEMISTRY

Revision Test

BIOLOGY

Revision Test

PHYSICS

Revision Test

<u>MATHEMATICS</u>	<u>HINDUSTANI MUSIC VOCAL</u>
Revision Test	Practical : (i) Tuning of Tanpura (ii) Practice of Alankars
<u>PHYSICAL EDUCATION</u>	<u>PAINTING</u>
Revision Test	Revision Test
<u>INFORMATION TECHNOLOGY</u>	
Project Work Revision Test	
<u>FINANCIAL MARKETS MANAGEMENT</u>	<u>HEALTH AND PHYSICAL-EDUCATION [HPE]</u>
Project Work Revision Test	<p style="text-align: center;">NOV. TO DEC.</p> STRAND - III (Sewa) Activity : I. Project I, II, III, IV STRAND - IV Health Activity Card (For Record)

Syllabus of Class XII - Science Stream Session (2024-25)
DECEMBER

ENGLISH

Preliminary Examination

CHEMISTRY

Preliminary Examination

BIOLOGY

Preliminary Examination

PHYSICS

Preliminary Examination

<u>MATHEMATICS</u>	<u>HINDUSTANI MUSIC VOCAL</u>
Preliminary Exams	Preliminary Exams
<u>PHYSICAL EDUCATION</u>	<u>PAINTING</u>
Preliminary Test	Preliminary Exams
<u>INFORMATION TECHNOLOGY</u>	
Preliminary Exams	
<u>FINANCIAL MARKETS MANAGEMENT</u>	<u>HEALTH AND PHYSICAL-EDUCATION [HPE]</u>
Preliminary Exams	<p style="text-align: center;">NOV. TO DEC.</p> <p>STRAND - III (Sewa) Activity : I. Project I, II, III, IV STRAND - IV Health Activity Card (For Record)</p>

Syllabus of Class XII - Science Stream Session (2024-25)

JANUARY

ENGLISH

Pre-Board Exams

CHEMISTRY

Pre-Board Examination

BIOLOGY

Pre-Board Exams

PHYSICS

**Pre-Board Exams
Final Practical Examination**

<u>MATHEMATICS</u>	<u>HINDUSTANI MUSIC VOCAL</u>
Pre-Board Exams	Pre-Board Exams
<u>PHYSICAL EDUCATION</u>	<u>PAINTING</u>
Pre-Board Exams Final Practical Exams.	Pre-Board Exams Final Practical
<u>INFORMATION TECHNOLOGY</u>	<u>HEALTH AND PHYSICAL-EDUCATION [HPE]</u>
Pre-Board Exams Final Practical Exams.	
<u>FINANCIAL MAREKTS MANAGEMENT</u>	
Pre-Board Exams Final Practical Exams	

Syllabus of Class XII - Science Stream Session (2024-25)
FEBRUARY

ENGLISH

Revision of Full Syllabus

CHEMISTRY

Final Practical Examination

BIOLOGY

Final Practical Examination

PHYSICS

Final CBSE Board Examination

<u>MATHEMATICS</u>	<u>HINDUSTANI MUSIC VOCAL</u>
Final Practical, Revision of full syllabus	Revision of Full Syllabus Final Exams
<u>PHYSICAL EDUCATION</u>	<u>PAINTING</u>
Revision of Syllabus	Final Exams
<u>INFORMATION TECHNOLOGY</u>	<u>HEALTH AND PHYSICAL-EDUCATION [HPE]</u>
Revision of full Syllabus	
<u>FINANCIAL MAREKTS MANAGEMENT</u>	
Revision of Full Syllabus Final Exams	

Syllabus of Class XII - Science Stream Session (2024-25)
MARCH

ENGLISH

Final Examination

CHEMISTRY

Final Board Examination

BIOLOGY

Final CBSE Exams

PHYSICS

Final Board Exams

<u>MATHEMATICS</u>	<u>HINDUSTANI MUSIC VOCAL</u>
Final Exams	Revision of Full Syllabus Final Exams
<u>PHYSICAL EDUCATION</u>	<u>PAINTING</u>
Final Practical	Final Exams
<u>INFORMATION TECHNOLOGY</u>	<u>HEALTH AND PHYSICAL-EDUCATION [HPE]</u>
Final Exams	
<u>FINANCIAL MARKETS MANAGEMENT</u>	
Final Exams	