

**Hillman Public School, Agra**  
**Annual Syllabus (Session-2024-25)**  
**Class–XII (Science)**

<b>SUBJECT- PHYSICS (042)</b>	
<b>Class Test</b>	Ch1. Electric Charges & Fields
<b>PT 1</b>	Ch1. Electric Charges & Fields Ch.2. Electrostatic Potential & Capacitance Ch.3. Current Electricity
<b>Half Yearly Exam</b>	Ch1. Electric Charges & Fields Ch2. Electrostatic Potential & Capacitance Ch3. Current Electricity Ch4. Moving Charges and Magnetism Ch5. Magnetism & Matter Ch6. Electromagnetic Induction Ch7. Alternating Current
<b>Pre – Board 1</b>	Ch8. Electromagnetic Waves Ch9. Ray Optics and Optical Instruments Ch10. Wave Optics Ch 11. Dual Nature of Radiation and Matter Ch12. Atoms Ch13. Nuclei Ch14. Semiconductor Electronics All Syllabus (From Chapter 1 to Chapter 14)
<b>Pre - Board 2</b>	All Syllabus (From Chapter 1 to Chapter 14)

<b>SUBJECT- CHEMISTRY (043)</b>	
<b>Class Test</b>	Ch1. Solutions
<b>Periodic Test 1</b>	Ch1. Solutions Ch.2. Electrochemistry
<b>Half Yearly Examination</b>	Ch1. Solutions Ch.2. Electrochemistry Ch.3. Chemical Kinetics Ch4. d and f block elements Ch5. Co-ordination Compounds Ch6. Haloalkanes and Haloarenes
<b>Pre – Board 1</b>	Note- Chapters 1 to Ch 6 including Ch7. Alcohols, Phenols & Ethers Ch.8 Aldehydes, Ketones & Carboxylic Acids Ch9. Amines Ch10. Biomolecules
<b>Pre - Board 2</b>	All Syllabus

<b>SUBJECT- PHYSICAL EDUCATION(048)</b>	
<b>Class Test</b>	CHAPTER: 5-Sports and nutrition
<b>Periodic Test 1</b>	CHAPTER 2-Children and women in sports
<b>Half yearly Examination</b>	CHAPTERS: (1-Management of sporting events), (3-Yoga as preventive measures for lifestyle diseases) (4-Physical education and sports for CWSN)
<b>Pre board. 1</b>	CHAPTERS: (1-Management of sporting events) (2-Children and women in sports) (3-Yoga as preventive measures for lifestyle diseases) (4-Physical education and sports for CWSN) (5-Sports and nutrition) (6-Test and measurement in sports) (7-Physiology and injuries in sports) (8-Biomechanics and Sports) (9-Psychology and sports) (10-Training in sports)
<b>Pre board 2</b>	(ALLCHAPTERS1TO10)

<b>SUBJECT- BIOLOGY(044)</b>	
<b>Class Test 1</b>	<ul style="list-style-type: none"> <li>• Sexual Reproduction in flowering plants</li> <li>• Human Reproduction</li> </ul>
<b>Periodic Test 1</b>	<ul style="list-style-type: none"> <li>• Sexual Reproduction in flowering plants</li> <li>• Human Reproduction</li> <li>• Reproductive Health</li> </ul>
<b>Half Yearly Exam</b>	<ul style="list-style-type: none"> <li>• Sexual Reproduction in flowering plants</li> <li>• Human Reproduction</li> <li>• Reproductive Health</li> <li>• Human health and disease</li> <li>• Microbes in human welfare</li> </ul>
<b>Pre – Board 1</b>	<ul style="list-style-type: none"> <li>• Molecular Basis of Inheritance</li> <li>• Biotechnology-Principles and Processes</li> <li>• Biotechnology and its Applications</li> <li>• Sexual Reproduction in flowering plants</li> <li>• Principles of inheritance and variation</li> <li>• Human Reproduction</li> <li>• Reproductive Health</li> <li>• Evolution</li> <li>• Human health and diseases</li> <li>• Microbes in human welfare</li> <li>• Organisms and Populations</li> <li>• Ecosystem</li> <li>• Biodiversity and its Conservation</li> </ul>
<b>Pre - Board 2</b>	All Syllabus (From Chapter 1 to chapter 13)

<b>SUBJECT- ENGLISH</b>	
<b>Class Test</b>	Flamingo -Ch.1, Ch.2 Poetry-1 (my mother at sixty) Vistas–Ch.2, Ch.3 Writing–Notice, Advertisement
<b>Periodic Test1</b>	Flamingo- ch-3, ch-4 ch-5 (Deep water , The rattrap, Indigo) Poetry-2,3(a thing of beauty, Keeping Quiet) Vistas-Ch.-3, Ch.-4, Ch 6(Journey to the end of earth, The enemy , On the face of it.) Writing- Notice, Reading Comprehension,formal and informal invitation and their reply
<b>Half Yearly Examination</b>	Flamingo- Ch1 to Ch 6 Poetry-1,2,3 Vistas-Ch1.to Ch.4 Writing- Articles/Report Writing, Letter, Notice, Job Application, Speech, Debate
<b>Pre-board1</b> <b>Pre-board2</b>	Allsyllabus. All syllabus.

<b>SUBJECT- MATHEMATICS</b>	
<b>Class Test</b>	Chapters: 1, 2 (Relation and Functions, Inverse trigonometric functions)
<b>PT1</b>	Chapters: 1, 2, 3 (Relation and Functions, Inverse trigonometric functions, Matrices)
<b>Half yearly Exam</b>	Chapters : 1,2,3,4 5,6 ( Relation and Functions, Inverse trigonometric functions, Matrices, Determinants, Continuity and differentiability, Application of derivatives, Integrals )
<b>Pre board. 1</b>	Chapter :- 1 To 13 (ALL CHAPTERS)
<b>Pre board 2</b>	Chapter :- 1 To 13 (ALL CHAPTERS)

**SUBJECT- FINE ARTS (PAINTING) (049)**

<b>Class Test</b>	Unit 1- (b) Pahari miniature paintings
<b>Periodic Test1</b>	Unit 1- (a) Rajasthani Miniature painting
<b>Half Yearly Examination</b>	Unit 1- (a) Rajasthani Miniature painting Unit 1- (b) Pahari miniature paintings Unit 2- (a) The Mughalschools of Miniature Painting Unit 2- (b) Deccan schools of Miniature Painting
<b>Pre-board1</b>	Unit 1- (b) Pahari miniature paintings Unit 2- (a) The Mughalschools of Miniature Painting Unit 3-(a) The Bengal school of painting
<b>Pre-board2</b>	Unit 1- (a) Rajasthani Miniature painting Unit 2- (b) Deccan schools of Miniature Painting Unit 3-(b) The Modern trends in Indian Art

**SUBJECT : COMPUTER SCIENCE (083)**

<b>UNITS / CHAPTERS</b>	<b>TEST</b>
<b>UNIT – 1 Computational Thinking and Programming – 2</b> <b>CH – 1</b> Revision of Python topics. <b>CH – 2</b> Functions	<b>CLASS TEST :</b> <b>CH – 1&amp; 2</b>
<b>CH – 3</b> Exception Handling <b>CH – 4</b> DATA FILE HANDLING	
<b>CH –5</b> Data Structure <b>UNIT – 2 COMPUTER NETWORKS</b> <b>CH –6</b> Evolution of networking <b>CH –7</b> Data communication terminologies	<b>PERIODIC TEST 1:</b> <b>CH – 1, 2,3 &amp;4</b>
<b>CH –8</b> Transmission media <b>CH –9</b> Network devices <b>CH –10</b> Network topologies <b>CH –11</b> Introduction to web services	
<b>Unit 3: Database Management</b> <b>CH –12</b> Database concepts <b>CH –13</b> Structured Query Language <b>CH – 14</b> Interface of python with an SQL database	<b>HALF YEARLY/PT2:</b> <b>UNIT 1 &amp; UNIT 2</b> <b>CH – 1 TO 11</b>
<b>PRACTICAL FILE</b>	
<b>COMPLETE SYLLABUS</b>	<b>PRE-BOARD - 1</b>
<b>COMPLETE SYLLABUS</b>	<b>PRE-BOARD - 2</b>

