



**JP INTERNATIONAL SCHOOL, GREATER NOIDA**  
**SESSION 2023-24**  
**PRE BOARD SYLLABUS**  
**CLASS – XII (NMED)**

Date - 21-11-2023

CIRCULAR NO: JPIS /23/195

Subject	Syllabus
<b>English (301)</b>	<p><b>Flamingo (Prose)</b> The Last Lesson, Lost Spring, Deep Water ,The Rattrap ,Indigo Poets and Pancakes, The Interview Going Places</p> <p><b>(Poetry)</b> My Mother at Sixty-Six ,Keeping Quiet ,A Thing of Beauty ,A Roadside Stand ,Aunt Jennifer's Tigers</p> <p><b>VISTAS</b> The Third Level ,The Tiger King ,Journey to the End of the Earth ,The Enemy ,On the Face of It ,Memories of Childhood</p> <p style="padding-left: 20px;">The Cutting of My Long Hair o We Too are Human Beings</p> <p><b>Creative Writing Skills</b> .Notice, up to 50 words, Formal/Informal Invitation and Reply, up to 50 words. Letters based on verbal/visual input, to be answered in approximately 120-150 words. Letter types include application for a job with bio data or resume. Letters to the editor (giving suggestions or opinion on issues of public interest) . Article/ Report Writing, descriptive and analytical in nature, based on verbal inputs, to be answered in 120-150 words.</p>
<b>Mathematics (041)</b>	<p>I. Relations and Functions II. Algebra III. Calculus IV. Vectors and Three - Dimensional Geometry V. Linear Programming VI. Probability</p>
<b>Physics (042)</b>	<p><b>Unit-I Electrostatics</b> Chapter-1: Electric Charges and Fields Chapter-2: Electrostatic Potential and Capacitance</p> <p><b>Unit-II Current Electricity</b> Chapter-3: Current Electricity</p> <p><b>Unit-III Magnetic Effects of Current and Magnetism</b> Chapter-4: Moving Charges and Magnetism Chapter-5: Magnetism and Matter</p> <p><b>Unit-IV Electromagnetic Induction and Alternating Currents</b> Chapter-6: Electromagnetic Induction Chapter-7: Alternating Current</p> <p><b>Unit-V Electromagnetic Waves</b> Chapter-8: Electromagnetic Waves</p> <p><b>Unit-VI Optics</b> Chapter-9: Ray Optics and Optical Instruments Chapter-10: Wave Optics</p> <p><b>Unit-VII Dual Nature of Radiation and Matter</b> Chapter-11: Dual Nature of Radiation and Matter</p> <p><b>Unit-VIII Atoms and Nuclei</b> Chapter-12: Atoms Chapter-13: Nuclei</p> <p><b>Unit-IX Electronic Devices</b> Chapter-14: Semiconductor Electronics: Materials, Devices and Simple Circuits</p>
<b>Chemistry (043)</b>	<p>1.Solutions 2 Electrochemistry 3 Chemical Kinetics 4 d -and f -Block Elements 5 Coordination Compounds 6 Haloalkanes and Haloarenes 7 Alcohols, Phenols and Ethers 8 Aldehydes, Ketones and Carboxylic Acids 9 Amines 10 Biomolecules</p>

<p><b>Computer Science(083)</b></p>	<p><b>Unit I: Computational Thinking and Programming – 2</b></p> <ul style="list-style-type: none"> <li>● Revision of Python topics covered in Class XI.</li> <li>● Functions:</li> <li>● Exception Handling</li> <li>● Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths</li> <li>● Text file</li> <li>● Binary file</li> <li>● CSV file</li> <li>● Data Structure.</li> </ul> <p><b>Unit II: Computer Networks</b></p> <ul style="list-style-type: none"> <li>● Evolution of networking:</li> <li>● Data communication terminologies:</li> <li>● Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves)</li> <li>● Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)</li> <li>● Network topologies and Network types: t</li> <li>● Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP</li> <li>● Introduction to web services:</li> </ul> <p><b>Unit III: Database Management</b></p> <ul style="list-style-type: none"> <li>● Database concepts:</li> <li>● Relational data model</li> <li>● Structured Query Language</li> <li>● Interface of python with an SQL database:</li> </ul>
<p><b>Physical Education (048)</b></p>	<p>UNIT 1 Management of Sporting Events  UNIT 2 Children and Women in Sports  UNIT 3 Yoga as Preventive measure for Lifestyle Disease  UNIT 4 Physical Education &amp; Sports for (CWSN)  UNIT 5 Sports &amp; Nutrition  UNIT 6 Test and Measurement in Sports  UNIT 7 Physiology &amp; Injuries in Sport  UNIT 8 Biomechanics and Sports  UNIT 9 Psychology and Sports  UNIT 10 Training in Sports</p>
<p><b>Artificial Intelligence (843)</b></p>	<p><b>PART A :Employability Skills</b>  Unit 1: Communication Skills-IV  Unit 2: Self-Management Skills-IV  Unit 3: ICT Skills-IV  Unit 4: Entrepreneurial Skills-IV  Unit 5: Green Skills-IV  <b>PART B : Subject Specific Skills</b>  Unit 1: Capstone Project  Unit 2: Model Lifecycle  Unit 3: Storytelling Through Data</p>
<p><b>NCC(076)</b></p>	<p>Ch:2 National Integation  Ch:3 Drill  Ch: 4 Weapon Training  Ch:5 Personality Development &amp; Leadership  Ch:6Disater Management  Ch:7 Social Awareness &amp; Community Development  Ch:9 Health &amp; Hygiene  Ch:10 Adventure Training &amp; Obstacle Training  Ch:11 Environmental Awarness  Ch:12 Basic Organisation of Armed Forces  Ch:13 Map Reading  Ch:14 Field Craft/Battle Craft  Ch:15 Introduction to infrantry Weapons &amp; Equipments  Ch:16 Milletry Histroy  Ch:17 Communication</p>
<p><b>Painting (049)</b></p>	<p>Unit - Rajasthani and Pahari School of Art  Unit 2- Mughal and Deccan school of Art  Unit 3- Bengal School of Painting and Modern Trend in Indian Art</p>

**Psychology (037)**

- I Variations in Psychological Attributes
- II Self and Personality
- III Meeting Life Challenges
- IV Psychological Disorders
- V Therapeutic Approaches
- VI Attitude and Social Cognition
- VII Social Influence and Group Processes

  
**Ms. Ruby Chandel**  
Principal

