



G.D. GOENKA PUBLIC SCHOOL, FIROZABAD

(CBSE Affiliation No. 2131615)

NH-2, Hazratpur, Firozabad

(2018-2019)

Compiled Syllabus for Class XII Science

<u>First Term</u>	<u>Second Term</u>
ENGLISH	
<p>Flamingo: Poetry: 1. My Mother at Sixty-six (UT- I), 2. Keeping Quiet, 3. An elementary School Classroom In a Slum</p> <p>Prose: 1. The Last Lesson (UT-I), 2. Lost Spring, 3. Deep Water, 4. The Rattrap</p> <p>Vistas: 1. The Tiger King (UT-I), 2. The Enemy, 3. Should Wizard....., 4. On the face of it</p> <p>Writing Skills: 1. Invitations and Replies, 2. Poster, 3. Notice UT-I, 4. Advertisements UT-I, 5. Article, 6. Letters (a. Enquiry, b. Placing Orders, c. To the Editor, d. complaints</p> <p>Reading: 1. Comprehension, 2. Note Making</p> <p>Long Reading Text: The Invisible Man; Chapters 1 to 14 (Theme and Plot)</p>	<p>Flamingo: Poetry: 1. A Thing of Beauty (UT-2) 2. Aunt Jennifer's Tigers</p> <p>Prose : 1. Indigo(UT-2) 2. Going Places</p> <p>Vistas: 1. Evans Tries on ----(-UT-2) 2. Memories of Childhood</p> <p>Long Reading Text: The Invisible Man; Chapter 15 to Epilogue</p> <p>Writing Skills: a. Report Writing(UT-2) b. Speech / Debate c. Job Applications</p> <p>Reading Section: Comprehensions and Note Making</p>
MATHEMATICS	
<p>Chapter 1: Relations and Functions Chapter 2: Inverse Trigonometric Functions Chapter 3: Matrices (UT- I) Chapter 4: Determinants (UT- I) Chapter 5: Continuity and Differentiability Chapter 6: Applications of Derivatives</p>	<p>Chapter 1: Relations and Functions Chapter 2: Inverse Trigonometric Functions Chapter 3: Matrices Chapter 4: Determinants Chapter 5: Continuity and Differentiability Chapter 6: Applications of Derivatives Chapter 7: Integrals (UT-II) Chapter 8: Applications of Integrals(UT-II) Chapter 9: Differential Equations (UT-II) Chapter 10: Vector Algebra Chapter 11: Three Dimensional Geometry Chapter 12: Linear Programming Chapter 13: Probability</p>



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<p>PHYSICAL EDUCATION</p> <p>Unit I Planning in Sports. (UT-1) Unit II Sports & Nutrition. Unit III Yoga & Life style (UT-1) Unit IV Physical Education & Sports for Differently - Abled Unit V Children & Sports. Unit VI Women & Sports</p>	<p>Unit I Planning in Sports. Unit II Sports & Nutrition. Unit III Yoga & Life style Unit IV Physical Education & Sports for Differently - Abled Unit V Children & Sports. Unit VII Test & Measurement In Sports \ (UT-2) Unit VIII Physiology & Sports.(UT-2) Unit IX Sports Medicine(UT-2) Unit X Kinesiology, Biomechanics & Sports. Unit XI Psychology & Sports. Unit XII Training in Sports</p>
<p>COMPUTER SCIENCES</p> <p>Unit 1:- Object Oriented Programming with C++(UT-1) Unit 2:-Data Structures Unit 3:-Databases and SQL Note:-All chapters mentioned above will be included in Terminal Examination-1</p>	<p>Unit 1:- Object Oriented Programming with C++ Unit 2:-Data Structures Unit 3:-Databases and SQL Unit 4:- Boolean Algebra(UT-2) Unit 5:-Communication Technologies Note:-All chapters mentioned above will be included in Terminal Examination-2 and Pre Boards</p>
<p>PHYSICS</p> <p>Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance Chapter–3: Current Electricity Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current</p>	<p>Chapter–8: Electromagnetic Waves Chapter–11: Dual Nature of Radiation and Matter Chapter–12: Atoms Chapter–13: Nuclei Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits Chapter–15: Communication Systems Including all the chapters of first term</p>



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<u>First Term</u>	<u>Second Term</u>
Chapter–9: Ray Optics and Optical Instruments Chapter–10: Wave Optics	
 BIOLOGY Chapter-1: Reproduction in Organisms Chapter-2: Sexual Reproduction in Flowering Plants Chapter-3: Human Reproduction Chapter-4: Reproductive Health Chapter-5: Principles of Inheritance and Variation Chapter-6: Molecular Basis of Inheritance Chapter-7: Evolution Unit-VIII Biology and Human Welfare Chapter-9: Strategies for Enhancement in Food Production Chapter-10: Microbes in Human Welfare	Chapter-11: Biotechnology – Principles and processes Chapter-12: Biotechnology and its Application Chapter-13: Organisms and Populations Chapter-14: Ecosystem Chapter-15: Biodiversity and its Conservation Chapter-16: Environmental Issues Including all the chapters of first term
 CHEMISTRY CHAPTER 1 Solid State CHAPTER 2 Solutions CHAPTER 3 Electrochemistry CHAPTER 4 Chemical Kinetics CHAPTER 5 Surface Chemistry CHAPTER 6 General Principles and Processes CHAPTER 7 of Isolation of Elements CHAPTER 8 p-Block Elements	CHAPTER 9 d -and f -Block Elements CHAPTER 10 Coordination Compounds CHAPTER 11 Haloalkanes and Haloarenes CHAPTER 12 Alcohols, Phenols and Ethers CHAPTER 13 Aldehydes, Ketones and Carboxylic Acids. CHAPTER 14 Organic Compounds containing Nitrogen CHAPTER 15 Bio-molecules CHAPTER 16 Polymers CHAPTER 17 Chemistry in Everyday Life Including all the chapters of first term
 MUSIC THEORY Definition of the following : (1) Alankar, Varna,Kan, Meend, Murki, Gamak, Murchhana, Alaap, Tana Classification of Ragas Time theory of Ragas	Ability to recognize the ragas from the given passages of Swaras Writing in notation the composition of the prescribed ragas(raag bhairav,bageshravi, bhimpilasi, and malkauns) Writing the tala- notions, Thah and dagun of prescribed talas jhaptala , rupak,



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<p>Detail study of the following treatises</p> <p>(a) Sangeet ratnakar</p> <p>(b) Sangeet parijat</p> <p>Description of ragas</p> <p>Practical activities</p> <p>(a) One drut khayal in Bhairavi, Bageshri and Malkauns</p> <p>(b) Two vilambit khayal with alaps and tanas in any of the prescribed ragas</p> <p>(c) One tarana nad one Dhamar with dugun and chaugun</p>	<p>tilwada, and dhamar.</p> <p>Contributions of musicians</p> <p>1) Ustad Abdul Karim Khan</p> <p>2) Ustad Faiyaz Khan</p> <p>3) Pt. Krishna Rao Shanker Pandit</p> <p>4) Ustad Bade Ghulam ali Khan</p> <p><u>Practical activities</u></p> <p>(d) One composition of sadra and dadra</p> <p>(e) Recitation of thekas of jhaptala, rupak tilwada and dhamar with dugun, keeping talas with hand beats</p> <p>(f) Ability to recognize the prescribed ragas from the swaras</p> <p>Knowledge of the structure and tuning of tanpura</p>
<p><u>FINE ARTS</u></p> <p>The Rajasthani and Pahari Schools of Miniature Painting</p> <p>2. The Mughal and Deccan Schools of Miniature Painting</p> <p>(1) Origin and development</p> <p>(2) Main features of the Mughal School</p> <p>(3) Study of the following Mughal Paintings :</p> <p>The Deccan School</p> <p>(1) Origin and development</p> <p>(2) Main features of the Deccan School</p> <p>(3) Study of the following Deccan Paintings :</p> <p>(i)</p> <p><u>PRACTICAL ACTIVITIES</u></p> <p>1. Nature and Object Study 25</p> <p>2. Painting Composition 25</p> <p>3. Sessional Work</p>	<p>3. The Bengal School of Painting and the Modern Trends in Indian Art</p> <p>The Moghul School</p> <p><u>The Bengal School of Painting and the Modern Trends in Indian Art</u></p> <p>(1) A. New Era in Indian Art – an introduction Study of the following painting</p> <p>(i) Rama Vanquishing the pride of the ocean – Raja Ravi Verma</p> <p>(2) Evolution of the Indian National Flag (First-1906, Middle-1921 and Final 1947 stages) : Study of the form and the colour scheme</p> <p>Introduction to the Bengal School of Painting (i) Origin and development of the Bengal School</p> <p>(ii) Main features of the Bengal school</p> <p>(i) Magician – Gagendranath Tagore (ii) Mother and Child – Jamini Roy</p> <p>(ii) (iii) Woman Face – Rabindranath Tagore</p> <p>(iv) Three Girls – Amrita Sher Gill</p>



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