

GURU NANAK PUBLIC SCHOOL, SARABHA NAGAR, LUDHIANA
CLASS XII
REVISED TERM WISE SYLLABUS (2021-22)

ENGLISH

TERM I	<p>FLAMINGO The Last Lesson Lost Spring Deep Water</p> <p>Poems MY Mother at Sixty Six An Elementary School Classroom in a Slum Keeping Quiet</p> <p>VISTAS The Third Level The Enemy</p> <p>WRITING SKILLS Notice Classified Advertisement Letter to Editor Article Writing</p>	<p>MCQS (90 mins.)</p> <p>40 MARKS+10 MARKS Internal Assessment</p>
TERM II	<p>FLAMINGO The Rattrap Indigo</p> <p>POEMS A Thing of Beauty Aunt Jennifer's Tigers</p> <p>VISTAS Should Wizard hit Mommy? On the Face of it Evans tries an O Level</p> <p>WRITING SKILLS Invitations and their replies Job Application Report Writing Comprehension Passage</p>	<p>Subjective Paper (2 Hrs)</p> <p>40 MARKS+10 MARKS Internal Assessment</p>

BIOLOGY

TERM I	<p>Ch - 2 Sexual Reproduction in Flowering Plants Ch -3 Human Reproduction Ch - 4 Reproductive Health Ch -5 Principles of Inheritance and Variation Ch – 6 Molecular Basis of Inheritance</p> <p style="text-align: center;">PRACTICALS</p> <p>A – Experiments</p> <ol style="list-style-type: none"> 1. Isolation of DNA from plant material 2. Prepare a temporary mount to observe pollen germination <p>B – Spotting</p> <ol style="list-style-type: none"> 1. Flowers adapted to pollination by different agencies 2. Identification of stages of development of gamete development 3. Meiosis in Onion bud cell 4. T.S blastula through permanent slide 5. Pedigree charts of any one genetic trait 	<p>MCQS (90 mins.)</p> <p>Objective type paper = 35Marks Practical =15 Marks</p>
TERM II	<p>Ch – 8 Human Health and Diseases Ch – 10 Microbes in Human Welfare Ch -11 Biotechnology – Principles and Processes Ch -12 Biotechnology and its Applications Ch – 13 Organisms and Populations Ch -15 Biodiversity and its Conservation</p> <p style="text-align: center;">PRACTICALS</p> <p>A – EXPERIMENTS</p> <ol style="list-style-type: none"> 1. Temporary mount of onion root tip to study Mitosis 2. Study of water samples 3. Study of soil samples <p>B - SPOTTING</p> <ol style="list-style-type: none"> 1. Comment on disease causing organisms 2. Comment upon morphological adaptations of two animals and plants found in xeric conditions 3. Comment upon morphological adaptations of two plants and animals found in aquatic conditions 	<p>Subjective paper = 35 Marks (2 Hrs)</p> <p>Practical = 15 Marks</p>

CHEMISTRY

TERM-I		
Chapter/Unit	Practical	
Unit – 1: Solid State Unit -2: Solutions Unit -7: P-Block Elements Unit-10:Haloalkanes &Haloarenes Unit-11: Alcohols,phenols& ethers Unit- 14: Biomolecules	<ul style="list-style-type: none"> • Volumetric analysis (KMnO₄ titrations VS Mohr's salt) • Identification of carbohydrates, fats and proteins in given samples. • Preparation of colloidal solution (Starch sol) • SALT ANALYSIS 	MCQs (90 mins.) =35 MARKS PRACTICAL = 15 MARKS
TERM-II		
Unit -3: Electrochemistry Unit-4: Chemical Kinetics Unit-5: Surface Chemistry Unit-8: d & f-Block Elements Unit-9: Co-ordination compounds Unit-12: Aldehydes, Ketones & carboxylic acids Unit-13: Amines	Project: Investigatory project on any topic <ul style="list-style-type: none"> • Preparation of CRYSTALS (Potash Alum) • SALT ANALYSIS • Volumetric analysis (KMnO₄ titrations VS Oxalic acid) 	Subjective paper (2 hrs.) =35 MARKS PRACTICAL = 15 MARKS

PHYSICS

TERM-I	
Unit-1 Electrostatics Ch.1-Electric Charges and Fields. Ch.2-Electrostatic Potential and Capacitance.	1. To determine resistivity of two wires by plotting a graph between potential difference V/s current.
Unit-II Current Electricity Ch.3-Current Electricity	2. To find resistance of given wire /standard resistor using meter bridge. OR To verify the law of combination of series/parallel of resistors using a meter bridge.
Unit- III Magnetic Effects of Current and Magnetism Ch.4-Moving Charges and Magnetism. Ch.5-Magnetism and Matter	3. To compare the EMF of two given primary cells using potentiometer. 4. To determine resistance of a galvanometer by half deflection method and to find its figure of merit.
Unit IV Electromagnetic Induction and Alternating Current Ch.6 Electromagnetic Induction Ch.7 Alternating Current	5. To convert the given galvanometer of known resistance and figure of merit into a voltmeter/ammeter of desired range and verify the same.
TERM-II	
Unit -V Electromagnetic Waves Ch.8-Electromagnetic Waves	
Unit-VI Optics Ch.9-Ray Optics and optical instruments Ch.10-Wave Optics	1. To find focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. 2. To find the focal length of a convex mirror/concave lens using a convex lens. 3. To determine angle of minimum deviation for a given prism.
Unit- VII Dual Nature of Radiation and matter Ch.11 Dual Nature of Radiation and matter	
Unit VIII Atoms and nuclei Ch. 12 Atoms Ch. 13 Nuclei	
Unit IX Electronic Devices Ch.14 Semiconductors- Electronics: Materials, Devices and Simple Circuits	4. To draw the I-V characteristic curve for a p-n junction diode in forward bias and reverse bias.
TERM-1 MCQ-35 MARKS PRACTICALS-15 MARKS	TERM-2 THEORY PAPER-35 MARKS PRACTICALS-15 MARKS

MATHEMATICS

TERM I	Ch 1 Relations & Functions Ch 2 Inverse Trigonometric Functions Ch 3 Matrices Ch 4 Determinants Ch 5 Continuity and Differentiability Ch 6 Application of Derivatives Ch 12 Linear Programming	MCQS (90 mins.) 40 MARKS+10 MARKS Internal Assessment
TERM II	Ch 7 Integrals Ch 8 Application of Integrals Ch 9 Differential Equations Ch 10 Vectors Ch 11 Three Dimensional Geometry Ch 13 Probability	Subjective Paper (2 Hrs) 40 MARKS+10 MARKS Internal Assessment

ACCOUNTANCY

TERM I	<p>ACCOUNTING FOR PARTNERSHIP FIRMS: FUNDAMENTALS CHANGE IN PROFIT SHARING RATIO ADMISSION OF A PARTNER</p> <p>COMPANY ACCOUNTS: ACCOUNTING FOR SHARES PART B</p> <p>ANALYSIS OF FINANCIAL STATEMENTS: FINANCIAL STATEMENTS OF A COMPANY (i) Statement of Profit and Loss and Balance Sheet in prescribed form with major headings and sub headings (as per Schedule III to the Companies Act,2013) (ii) Tools of Analysis - Ratio Analysis 2 ACCOUNTING RATIOS Tools of Analysis - Ratio Analysis</p>	<p>MCQS (90 mins.)</p> <p>40 MARKS+10 MARKS Internal Assessment</p>
TERM II	<p>Part A UNIT 1 ACCOUNTING FOR NOT-FOR PROFIT ORGANISATIONS</p> <p>ACCOUNTING FOR PARTNERSHIP FIRMS: 1 RETIREMENT AND DEATH OF A PARTNER 2 DISSOLUTION OF PARTNERSHIP FIRMS</p> <p>COMPANY ACCOUNTS: 1 ACCOUNTING FOR DEBENTURES PART B</p> <p>ANALYSIS OF FINANCIAL STATEMENTS: 1 FINANCIAL STATEMENTS OF A COMPANY (i) COMPARATIVE AND COMMON SIZE STATEMENTS 2 CASH FLOW STATEMENT</p>	<p>Subjective Paper (2 Hrs)</p> <p>40 MARKS+10 MARKS Internal Assessment</p>

BUSINESS STUDIES

TERM I	<p>Principles and Functions of Management</p> <ol style="list-style-type: none"> 1. Nature and Significance of Management 2. Principles of Management 3. Business Environment 4. Planning 5. Organising <p>Business Finance and Marketing. Marketing Management PROJECT WORK (PART 1)</p>	<p>MCQS (90 mins.)</p> <p>40 MARKS+10 MARKS</p> <p>Internal Assessment</p>
TERM II	<p>Principles and Functions of Management</p> <ol style="list-style-type: none"> 6. Staffing 7. Directing 8. Controlling <p>Business Finance and Marketing Financial Management Financial Markets Consumer Protection Total</p> <p>PROJECT WORK (PART-2)</p>	<p>Subjective Paper (2 Hrs)</p> <p>40 MARKS+10 MARKS</p> <p>Internal Assessment</p>

ECONOMICS

TERM I	<p>Part A: Introductory Macroeconomics</p> <p>Money and Banking Government Budget and the Economy Balance of Payments</p> <p>Part B: Indian Economic Development</p> <p>Development Experience (1947-90) and Economic Reforms since 1991; Indian Economy on the eve of Independence Indian Economy (1950-90)-Liberalization, Privatisation and Globalisation : An Appraisal</p> <p>Current challenges facing Indian Economy Poverty Human Capital Formation Rural development Project Work (Part 1):</p>	<p>MCQS (90 mins.)</p> <p>40 MARKS+10 MARKS Internal Assessment</p>
TERM II	<p>Part A: Introductory Macroeconomics</p> <p>National Income and Related Aggregates Determination of Income and Employment</p> <p>Part B: Indian Economic Development</p> <p>Current challenges facing Indian Economy:- Employment Infrastructure Sustainable Economic Development Development Experience of India – A Comparison with Neighbours Project Work Part 2</p>	<p>Subjective Paper (2 Hrs)</p> <p>40 MARKS+10 MARKS Internal Assessment</p>

ENTREPRENEURSHIP

TERM I	Unit 1. Entrepreneurial Opportunity Unit 2 Entrepreneurial Planning Unit 5 Business Arithmetics Project Work (Part 1)	MCQS (90 mins.) 40 MARKS+10 MARKS Internal Assessment
TERM II	Unit 3 Enterprise Marketing Unit 4 Enterprise Growth Strategies Unit 5 Business Arithmetic. Contd... Unit 6 Resource Mobilization Project Work (Part 2)	Subjective Paper (2 Hrs) 40 MARKS+10 MARKS Internal Assessment

PHYSICAL EDUCATION

TERM I	CHAPTER 1-PLANNING IN SPORTS CHAPTER 2-SPORTS AND NUTRITION CHAPTER 5-CHILDREN AND WOMEN IN SPORTS CHAPTER 6- TEST AND MEASUREMENT IN SPORTS CHAPTER 8- BIOMECHANICS AND SPORTS	MCQS (90 mins.) 35 MARKS+15 MARKS PRACTICAL
TERM II	CHAPTER -3 YOGA AND LIFESTYLE CHAPTER -4 PHYSICAL EDUCATION AND SPORTS FOR CWSN CHAPTER -7 PHYSIOLOGY AND INJURIES IN SPORTS CHAPTER -9 PSYCHOLOGY AND SPORTS CHAPTER -10 TRAINING IN SPORTS	Subjective Paper (2 Hrs) 35 MARKS+15MARKS PRACTICAL

PAINTING AND COMMERCIAL ARTS

TERM I	<p>Unit 1</p> <ul style="list-style-type: none"> ★Rajasthani school of miniature paintings ★Pahari School of miniature paintings <p>Unit 2</p> <ul style="list-style-type: none"> ★Mughal school of miniature paintings ★Deccan school of miniature paintings <p>PRACTICAL</p> <p>Painting:- 3 Still Life,3 Compositions,3 landscapes</p> <p>Commercial Arts 3 posters,3 Illustrations,2 Advertisements</p>	<p>MCQS (90 mins.)</p> <p>15 MARKS+35 MARKS Practical</p>
TERM II	<p>Unit 3</p> <ul style="list-style-type: none"> ★Bengal school of paintings <p>Unit 4</p> <ul style="list-style-type: none"> ★The Modern Trends of Indian Art. <p>PRACTICAL</p> <p>Painting 2 Still Life,2 Compositions,2 landscapes</p> <p>Commercial Arts 2 posters,2 Illustrations,3 Advertisements</p>	<p>Subjective Paper (2 Hrs)</p> <p>15 MARKS+35 MARKS Practical</p>

LEGAL STUDIES

TERM I	<p>Judiciary i. Structure and Hierarchy of Courts and Legal Offices in India ii. Constitution, Roles and Impartiality iii. Appointments, Trainings, Retirement and Removal of Judges iv. Courts and Judicial Review</p> <p>Topics of Law i. Law of Property ii. Law of Contracts iii. Law of Torts iv. Introduction to Criminal Laws in India</p> <p>Arbitration ,Tribunal Adjudication and Alternative Dispute Resolution i. Adversarial and Inquisitorial Systems ii. Introduction to Alternative Dispute Resolution iii. Types of ADR iv. Arbitration, Administrative, Tribunals v. Mediation and Conciliation vi. Lok Adalats vii. Ombudsman viii. Lokpal and Lokayukta</p>	<p>MCQS (90 mins.)</p> <p>40 MARKS+10 MARKS</p> <p>Internal Assessment</p>
TERM II	<p>Human Rights in India i.Introduction – International Context ii. Constitutional framework and Related laws in India iii. Complaint Mechanisms of Quasi-judicial Bodies</p> <p>Legal Profession in India Introduction The Advocates Act, 1961, The Bar Council of India, Lawyers and Professional Ethics, Advertising by Lawyers, Opportunities for Law graduates, Legal Education in India, Liberalization of the Legal Profession, Women and the Legal Profession in India</p> <p>Legal Services i. Legal background – Free Legal Aid under Criminal law, Legal Aid by the State, Legal Aid under the Indian Constitution, NALSA Regulations, 2010 ii. Criteria for giving free Legal Services iii. Lok Adalats iv. Legal Aid in Context of Social Justice and Human Rights</p> <p>International Context i. Introduction to International Law ii. Sources of International Law – Treaties, Customs and ICJ Decisions iii. International Institutions, International Human Rights iv. Customary International Law v. International law & Municipal Law vi. International Law & India vii. Dispute Resolution mechanism</p>	<p>Subjective Paper (2 Hrs)</p> <p>40 MARKS+10 MARKS</p> <p>Internal Assessment</p>

POLITICAL SCIENCE

TERM I	Part A contemporary world politics Cold War Era and Non-aligned Movement The End of Bipolarity United Nations and its Organizations Part B: Politics in India Since Independence Challenges of Nation-Building Planning and Development India's Foreign Policy	MCQS (90 mins.) 40 MARKS+10 MARKS Internal Assessment
TERM II	Part A contemporary world politics New Centers of Power South Asia and the Contemporary World Globalization Part B: Politics in India Since Independence Parties and the Party Systems in India Democratic Resurgence Indian Politics: Trends and Developments	Subjective Paper (2 Hrs) 40 MARKS+10 MARKS Internal Assessment

PSYCHOLOGY

Term I	Unit I Variations in Psychological attributes Unit II Self and Personality Unit III Meeting Life Challenges Practical 1. Maudsley Personality Inventory 2. State Trait Anxiety Test	MCQs(90mins) 35 marks Practical 15marks
Term II	Unit IV Psychological Disorders Unit V Therapeutic Approaches Unit VI Attitude and Social Cognition Unit VII Social Influences and Group processes Practical Self- Concept Questionnaire	Subjective Paper (2 HRS) 35marks Practical 15marks

INFORMATIC PRACTICES

TERM I	THEORY 1. Data Handling using Pandas and Data Visualization 2. Societal Impacts PRACTICAL 1. Python Program 2. Practical File (15 pandas programs) 3. Project synopsis 4. Viva	MCQS (90 mins.) 35 MARKS+15 MARKS
TERM II	THEORY 1. Database Query using SQL 2. Introduction to Computer Network PRACTICAL 1. SQL Queries 2. Practical File (12 SQL Queries) 3. Final Project Submission 4. Viva	Subjective Paper (2 Hrs) 35 MARKS+15 MARKS

MUSIC VOCAL

TERM I	<p style="text-align: center;">Theory Topics</p> <ol style="list-style-type: none"> 1. Brief study of the: - Alankar, Alap, Taan, Meend, Gamak. 2. Historical development of time theory of ragas. 3. Detailed study of Sangeet Ratanakar. 4. Description of prescribed taals along with taal notation with Thah, Dugun and Chaugun:- Jhaptaal, Rupak and Dhamaar. 5. Critical study and writing in notation the composition of the prescribed raags from phrases of Swaras and elaborating them: - Bhairav, Bageshwari. <p style="text-align: center;">Practical</p> <ol style="list-style-type: none"> 1. One Vilambait khayal with simple elaborations and few taans in any one the prescribed Raags:- Bhairav, Bageshwari. 2. One Drut khayal with simple elaborations and few taans in each of the following raags :- Bhairav, Bageshwari. 3. Recitation of the Thekas of the Talas with Thah, Dugun and Chaugun, keeping tala with hand beats:- Jhaptaal, Rupak and Dhamaar. 4. Ability to recognize the Ragas from the Phrases of swaras rendered by examiner. 5. Practical file. 	<p>MCQS (90 mins.)</p> <p>Theory – 15 Marks Practical – 35 Marks</p>
TERM II	<p style="text-align: center;">Theory topics</p> <ol style="list-style-type: none"> 1. Brief study of the: - Gram, Murchhana, Kan Khatka, Murki. 2. Detailed study of the: - Sangeet Parijat. 3. Life sketch and contribution to music of: - Faiyaz Khan, Bade Gulam Ali Khan, Krishna Rao Shankar Pandit. 4. Knowledge of tuning of the Tanpura. 5. Critical study and writing in notation the compositions of the prescribed Raga along with recognizing the Raga from phrases of Swaras and elaborating it: - Malkauns. <p style="text-align: center;">Practical</p> <ol style="list-style-type: none"> 1. One Drut Khayal with simple elaboration and few taans in Ragas Malkauns. 2. One Dhamar with Dugun and Chaugun in any one of the Ragas: - Malkauns, Bhairav, Bageshwari. 3. One tarana in any one the prescribed Ragas: - Malkauns, Bhairav, and Bageshwari. 4. Ability to recognize the prescribed Ragas from the phrases of Swaras rendered by the Examiner. 5. Tuning of Tanpura and questions regarding it. 	<p>Subjective Paper (2 Hrs)</p> <p>Theory -15Marks Practical – 35 Marks</p>

MATHEMATICS APPLIED

TERM I	CH.1 Numbers, Quantification and Numerical Applications CH.2 Numerical Inequalities CH.4 Matrices CH.5 Determinants CH.6 Applications of Derivatives CH.9 Probability CH.11 Index Numbers and Time-based Data upto Ex.11.1 only	MCQS (90 mins.) 40 MARKS+10 MARKS Internal Assessment
TERM II	Ch.11 Index Numbers and Time-based Data CH.7. Integrals CH.8 Differential Equations CH.10 Inferential Statistics Ch.12 Perpetuity, Sinking Bonds and EMI CH.14 Returns, Growth and Depreciation CH.15 Linear Programming	Subjective Paper (2 Hrs) 40 MARKS+10 MARKS Internal Assessment

FASHION STUDIES

TERM I	<p style="text-align: center;">THEORY</p> <p>UNIT 1 - History of Fashion UNIT 2 - Basic pattern development UNIT 3 - Elements of Fashion</p> <p style="text-align: center;">PRACTICAL</p> <p>1) To identify the cultural context of body adornment and its continuation in contemporary society. 2) To use visual references to analyze Asian draped garments. 3) To analyze the impact of industrial revolution during the British Raj in India. 4) Design products with self generated prints inspired from nature. 5) To demonstrate creative exploration of pattern created by using food products for dyeing products. 6) Develop Print designs inspired from animal skins by innovative use of materials. 7) Stencil printing technique to create design patterns/motifs.</p>	<p>MCQS (90 mins.)</p> <p>40 MARKS+10 MARKS</p>
TERM II	<p style="text-align: center;">THEORY</p> <p>UNIT 4 - Basics of Garment making</p> <p style="text-align: center;">PRACTICAL</p> <p>1) Develop a Basic Skirt Block. 2) Develop Style variations of skirts- one dart and A-Line. 3) Stitch a sample of continuous placket. 4) Stitch a sample of Basic shirt placket. 5) Stitch a sample of Basic shirt placket with facing. 6) Stitch a sample each of –Extended Facing, Biasfacing, and shaped facing</p>	<p>Subjective Paper (2 Hrs)</p> <p>40 MARKS+10 MARKS</p>

PUNJABI

TERM I	<ol style="list-style-type: none">1. ਕਵਿਤਾਵਾਂ :-ਟੁਕੜੀ ਜੱਗ ਤੋਂ ਨਿਆਰੀ (ਭਾਈ ਵੀਰ ਸਿੰਘ) ਤਾਜਮਹਿਲ (ਪ੍ਰੋ: ਮੋਹਨ ਸਿੰਘ)2. ਕਹਾਣੀਆਂ:- ਸਾਂਝ (ਸੁਜਾਨ ਸਿੰਘ) ਨੀਲੀ (ਕਰਤਾਰ ਸਿੰਘ)3. ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦੀ ਪਛਾਣ - ਪੰਜਾਬ ਦੇ ਮੇਲੇ ਤੇ ਤੇ ਤਿਉਹਾਰ (ਡਾ:ਐੱਸ.ਐੱਸ. ਵਣਜਾਰਾ ਬੇਦੀ)4. ਵਾਕਵਟਾਂਦਰਾ5. ਅਖਾਣ (1-40) <p>Activities:-ਸੁਣਨ ਅਤੇ ਬੋਲਣ ਕੌਸ਼ਲ Listening + Speaking</p>	<p>MCQS (90 mins.)</p> <p>40 MARKS+10 MARKS Internal Assessment</p>
TERM II	<ol style="list-style-type: none">1. ਕਵਿਤਾਵਾਂ:-(i) ਚੁੰਮ ਚੁੰਮ ਰੱਖੋ (ਨੰਦ ਲਾਲ ਨੂਰਪੁਰੀ) ਮੇਰਾ ਬਚਪਨ (ਹਰਿਭਜਨਸਿੰਘ)2. ਕਹਾਣੀ ਮਾੜਾ ਬੰਦਾ (ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼)3. ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦੀ ਪਛਾਣ (i) ਪੰਜਾਬ ਦੇ ਰਸਮ ਰਿਵਾਜ (ਗੁਲਜ਼ਾਰ ਸਿੰਘ ਸੰਧੂ) (ii)ਪੰਜਾਬ ਦੀਆਂ ਲੋਕ ਖੇਡਾਂ (ਸੁਖਦੇਵ ਮਾਦਪੁਰੀ)4. ਕਾਰ ਵਿਹਾਰ ਦੇ ਪੱਤਰ5. ਪੈਰ੍ਹਾ ਰਚਨਾ6. ਸੰਖੇਪ ਰਚਨਾ <p>Activities:- Project Viva</p>	<p>Subjective Paper (2 Hrs)</p> <p>40 MARKS+10 MARKS Internal Assessment</p>