



## WEST BENGAL STATE COUNCIL OF TECHNICAL & VOCATIONAL EDUCATION & SKILL DEVELOPMENT

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### **Reduction in syllabus of Class XII Higher Secondary (Voc.) Examination, 2021**

#### **Subject-wise discarded topics :**

Sl. No.	Subject	Related portions of the Syllabus
1.	Bengali (BENG2)	<ul style="list-style-type: none"><li>● <b>কবিতা :-</b><ul style="list-style-type: none"><li>১) সেই দিন এই মাঠ - ‘জীবনানন্দ দাশ’</li><li>২) ভুলে যাবো না - ‘সুভাষ মুখোপাধ্যায়’</li></ul></li><li>● <b>গদ্য :-</b><ul style="list-style-type: none"><li>১) ঈর্ষা - ‘আশাপূর্ণা দেবী’</li></ul></li><li>● <b>ভাষা / ব্যাকরণ :-</b><ul style="list-style-type: none"><li>১) বাংলা ভাষার শব্দ তৈরীর কৌশল। শব্দ ও অর্থ।</li><li>২) বিরামচিহ্ন।</li></ul></li></ul>
2.	Hindi (HIN2)	<ul style="list-style-type: none"><li>● <b>काव्य :</b><ul style="list-style-type: none"><li>१। अरी वरुणा की शांत कछार – जयशंकर प्रसाद</li><li>२। मैंने देखा, एक बूँद – अक्षेय</li></ul></li><li>● <b>गद्य :</b><ul style="list-style-type: none"><li>१। शिरीष के फूल – हजारी प्रसाद द्विवेदी</li><li>२। सिक्का बदल गया – कृष्णा सोवती</li></ul></li><li>● <b>व्यकरण :</b><ul style="list-style-type: none"><li>१। वाक्य विश्लेषण</li><li>२। प्रूफ</li></ul></li></ul>
3.	Urdu (URD2)	<ul style="list-style-type: none"><li>● <b>Poetry :</b><ul style="list-style-type: none"><li>1. Dar Madh Bahadur Shah Zafar (Qasida) - Sk. Ibrahim Zauq</li><li>5. Dard Ayega Dabey Paaon (Poen) - Faiz Ahmed Faiz</li></ul></li><li>● <b>Prose :</b><ul style="list-style-type: none"><li>3. Insan Kisi Haal Mein (From “Nairang-e-Khayal”) Md. Hussain Azad</li><li>4. Md. Ali Jauhar (From Ganj-hai Giran-Maya) - Rashid A. Siddiqui</li></ul></li><li>● <b>Language/Grammer :</b><ul style="list-style-type: none"><li>• Types of Huroof-Mufrid &amp; Murakkab.</li><li>• I’raab (sings) Zabar, Zer, Paish, Jazam, Mudd, Tashdeed, Tanveen, Hamza, Mauqoof.</li></ul></li></ul>

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4.	Nepali (NEP2)	<p>बाहौँ श्रेणी कृषि विभाग (नेपाली)</p> <ul style="list-style-type: none"> <li>● <b>पद्य :</b> १। नरबहादुर दाहाल : पतझड</li> <li>● <b>गद्य :</b> १। लेनसिंह वाङ्देल् : मूर्तिकारको धोका</li> <li>● <b>भाषा / व्यकरण :</b> १। नेपाली भाषाको शब्द भण्डार : तत्सम, तद्भव र आगन्तुक शब्द। २। नेपाली उखान, तुक्का र बाग्धारा।</li> <li>● <b>रचना खण्ड :</b> १। भाव विस्तार</li> </ul>
5.	English (ENG2)	<ul style="list-style-type: none"> <li>● <b>Prose :</b> 1) The Face of Judas Iscariot</li> <li>● <b>Poetry :</b> 1) Break Break Break</li> <li>● <b>Grammer :</b> 1) Correction of Error</li> <li>● <b>Writing :</b> 1) Personal letter writing. 2) Report writing.</li> </ul>
6.	Environmental Studies (ENST)	<ul style="list-style-type: none"> <li>● <b>Unit 2 :</b> Man and Environment-A (मानुष ओ परिबेश-A)</li> <li>● <b>Unit 4 :</b> Disaster and Environment (विपर्यय ओ परिबेश): विभिन्न प्रकार प्राकृतिक विपर्ययैर प्रभाव</li> <li>● <b>Unit 6 :</b> Environmental Pollution-B (परिवेश दूषण-B)</li> <li>● <b>Unit 8 :</b> Energy and Environment (शक्ति ओ परिवेश)</li> </ul>
7.	Business Studies and Management-II (BSMII)  Discipline : Business Commerce	<ul style="list-style-type: none"> <li>● <b>Chapter 1 : Nature of Management :</b> 1) Management and Administration 2) Management as a profession</li> <li>● <b>Chapter 2 : Management Thoughts :</b> 1) Principles of Scientific Management &amp; Tools of Scientific Management</li> <li>● <b>Chapter 3 : Planning :</b> 1) Corporate Planning, 2) Re-active Planning 3) Pro-active Planning, 4) Functional Planning 5) Strategic Planning, 6) Operational Planning</li> <li>● <b>Chapter 4 : Organising :</b> 1) Spam of Management, 2) Factors of Spam Management</li> <li>● <b>Chapter 5 : Staffing :</b> Importance of Man power planning.</li> <li>● <b>Chapter 8 : Marketing Management :</b> 1) Scope of Marketing 2) Functions of Marketing 3) Elements of Marketing mix 4) Elements of Promotions 5) Medium of Advertisement</li> <li>● <b>Chapter 9 : Financial Management :</b> 1) Importance of Financial Management 2) Estimation of Capital Requirement</li> </ul>

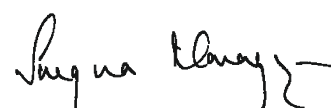
Sl. No.	Subject	Related portions of the Syllabus
8.	Accountancy-II (ACT-II)  Discipline : Business Commerce	<ul style="list-style-type: none"> <li>● <b>Unit III : Accounting for Share Capital :</b> <ul style="list-style-type: none"> <li>• Topic - Treatment of forfeiture and reissue of share.</li> </ul> </li> <li>● <b>Unit IV : Ratio Analysis :</b> <ul style="list-style-type: none"> <li>• Topic - Solvency Ratios - Debt Equity Ratio, Capital- Gearing Ratio</li> </ul> </li> <li>● <b>Unit V : Financial Statement Analysis :</b> <ul style="list-style-type: none"> <li>• Objects, Users of financial Statement analysis.</li> <li>• Tools - Comparative Statement, Common Size Statement, Cash Flow Statement (Elementary ideas &amp; Simple type problems)</li> </ul> </li> <li>● <b>Unit VI : Electronic Accounting System :</b> <ul style="list-style-type: none"> <li>• Topic - Online information Sharing : with financial institution,</li> <li>• Regulatory authorities : Use of Spread sheet in business applications.</li> <li>• Pay Roll Accounting, Assets Accounting,</li> <li>• Graph &amp; Charts for business - Preparation of graphs, charts using excel.</li> <li>• Overview of Data Base Management - System (DBMS).</li> </ul> </li> </ul>
9.	Economics and Business Mathematics & Statistics-II (EBM2)  Discipline : Business Commerce	<ul style="list-style-type: none"> <li>● <b>Economics</b> Chapter 2 : Factor Market - Interest loanable fund theory. Chapter 4 : Money and Banking - Reform in the Banking sector. Chapter 5 : Balance of Payment - Indian foreign trade (export promotion VS import promotion - compensation and direction)</li> <li>● <b>Business Mathematics and Statistics</b> <b>Unit 5</b> : Time Series Definition, Components of time series (basic idea), Measurement of Trend (fitting of straight line and moving average method), simple problems. <b>Unit 6</b> : Cost of Living Index, Simple Problems.</li> </ul>
10.	Business Law (BLAW)  Discipline : Business Commerce	<ul style="list-style-type: none"> <li>● <b>Chapter 2</b> : Law of Contract</li> <li>● <b>Chapter 5</b> : Negotiable Instruments Act</li> </ul>
11.	Dietetics-II (DTC-2)  Discipline : Home Science	<p><b>Chapter 3</b> : Preparation of diet chart and menu planning.</p> <p><b>Chapter 4</b> : Importance of dietetics and role of a dietitian in the society.</p>
12.	Biology (BIOH)  Discipline : Home Science	<ul style="list-style-type: none"> <li>● <b>Chapter 2</b> : Heredity and Variation : <ul style="list-style-type: none"> <li>4. Mendelian disorder in humans - Thalassemia, Chromosomal disorder in human, Down's syndrome.</li> </ul> </li> <li>● <b>Chapter 3</b> : Human Reproduction : <ul style="list-style-type: none"> <li>3. Menstrual Cycle, fertilization, embryo development up to blastocyst formation (elementary idea), Parturition (elementary idea), Lactation (elementary idea)</li> </ul> </li> <li>● <b>Chapter 4</b> : Reproductive Health <ul style="list-style-type: none"> <li>2. Birth control - Need and methods, Conception and Medical Termination of pregnancy (MTP)</li> </ul> </li> <li>● <b>Chapter 5</b> : Health and Diseases <ul style="list-style-type: none"> <li>1. Elementary idea of bacteria, Virus and fungi.</li> <li>2. Basic concept of immunology, vaccines, HIV and AIDS</li> </ul> </li> <li>● <b>Chapter 7</b> : Environmental Issues. <ul style="list-style-type: none"> <li>3. Agrochemicals and their effects.</li> <li>4. Solid waste management.</li> </ul> </li> </ul>

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13.	Human Development (HUDV)  Discipline : Home Science	<ul style="list-style-type: none"> <li>● <b>Chapter 3</b> : Prenatal Development : Including - Birth Process Condition affecting prenatal development hazards.</li> <li>● <b>Chapter 4</b> : Stages of development : Including – Adulthood - Characteristics, Problems Old age - Characteristics, Problems</li> <li>● <b>Chapter 6</b> : Concept of Guidance and Counselling. Including-Guidance and Counselling of disabled children.</li> </ul>
14.	Biology (BIO2)  Discipline : Agriculture	<ul style="list-style-type: none"> <li>● <b>Unit I</b> : Chapter 2 : Human Reproduction (মানব প্রজনন)</li> <li>● <b>Unit II</b> : Chapter 5 : Molecular Basis of Inheritance (বংশগতির আনবিক ভিত্তি) Chapter 7 : Mechanism of Evolution (অভিব্যক্তির কৌশল)</li> <li>● <b>Unit III</b> : Chapter 8 : Health and diseases (স্বাস্থ্য ও রোগব্যাপি)</li> <li>● <b>Unit V</b> : Chapter 16 : Biodiversity and its Conservation (জীববৈচিত্র্য এবং তার সংরক্ষণ) Chapter 17 : Environmental Issues (পরিবেশ বিচার্য বিষয়সমূহ)</li> </ul>
15.	Physics (PHYS)  Discipline : Agriculture / Engineering Technology	<ul style="list-style-type: none"> <li>● <b>Unit I</b> : Electrostatics - Van De Graff Generator.</li> <li>● <b>Unit II</b> : Current Electricity - Wheatstone Bridge, Meter bridge, Potentiometer-Principle and its applications to measure Potential difference and for comparing emf of two cells, measurement of internal resistance of a cell.</li> <li>● <b>Unit V</b> : Electromagnetic waves - Entire chapter.</li> <li>● <b>Unit VI</b> : Optics - Diffraction due to a single slit, width of central maxima (No deduction). Polarization-Plane polarized light, Brewster's law, uses of plane polarized light and polaroids.</li> <li>● <b>Unit VIII</b> : Atoms and Nuclei.</li> <li>● <b>Unit X</b> : Communication System.</li> </ul>
16.	Chemistry (CHEM)  Discipline : Agriculture / Engineering Technology	<ul style="list-style-type: none"> <li>● <b>Unit I</b> : <b>Solid State</b> : Schottky defect and Frenkel defect</li> <li>● <b>Unit II</b> : <b>Solution</b> : Reverse Osmosis (qualitative idea), Determination of molar masses using, colligative properties.</li> <li>● <b>Unit III</b> : <b>Electro Chemistry</b> : Red-ox titration : Oxalic Acid - <math>\text{KMnO}_4</math>, <math>\text{KMnO}_4 - \text{Fe}^{2+}</math> <u>Conductance in electrolytic solutions</u> : In case of Primary dry cell battery : Mercury battery. In case of secondary dry cell battery : Nickel – cadmium ("Ni-cad") battery (precaution in disposal) and Fuel cell. <u>Corrosion</u> : Introduction, Cause of corrosion, Factors influencing corrosion, Various methods of corrosion control.</li> </ul>

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		<ul style="list-style-type: none"> <li>● <b>Unit IV : Chemical Kinetics :</b> Rate law of second order and zero order reaction. Concept of activation energy of a reaction.</li> <li>● <b>Unit V : Surface Chemistry :</b> In case of adsorption, physisorption and chemisorption. In case of properties of colloids, Brownian Movement, electrophoresis. Emulsion : Type of emulsion.</li> <li>● <b>Unit VI : Extraction of Metals :</b> Concentration : Froth floatation. Self reduction. Occurrence and principle of extraction of copper. Composition and uses of Bronze, Brass, Bell Metal.</li> <li>● <b>Unit VII : S-Block &amp; P-Block Elements :</b> For group 1 &amp; 2 Trend in chemical reactivity with halogens. For group 13 Elements : Comparative chemical properties of boron and Aluminium - reaction with acid and alkalis. For group 14 Elements : Allotropic forms of Carbon – physical properties and uses. For group 15 Elements : Allotropy of phosphorus. Comparative chemical reactivity of nitrogen and phosphorus with respect to reaction with oxygen. Important compounds of phosphorus : phosphine, phosphorous acid and phosphoric acid. For group 16 Elements : Natural occurrence (chalcogens) (allotropy of Sulphur). Reaction of ozone with mercury, lead sulphide. Sulfur trioxide [preparation and uses]. For group 17 Elements : In case of comparative reaction of halogens - oxidising property, reaction with water. Hydrohalic acid : preparation and reactions; detection of halides. For group 18 Elements : occurrence, important uses. Compounds of xenon : xenon fluorides - preparation and structure only.</li> <li>● <b>Unit VIII : d block element :</b> For d block elements, general trend in magnetic property, alloy formation, Preparation and properties of <math>K_2Cr_2O_7</math>.</li> <li>● <b>Unit IX : Coordination Compounds :</b> For coordination compounds simple Isomerism. A few important coordination complex (formula, structure, colour) : Brown ring compound, sodium nitroprusside, tetraamine copper (II) sulphate.</li> <li>● <b>Unit X : Haloalkanes and Haloarenes :</b> For haloalkanes : Preparation of chloroform, Chemicals properties – hydrolysis and dehydrohalogenation. Uses of chloroform. DDT and its environmental hazards. For haloarenes : Preparation of bromobenzene.</li> </ul>

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		<p>● <b>Unit XI : Alcohols, Phenols and Ethers :</b></p> <p>In case of Alcohols : For preparation of primary alcohols , Preparation by Hydrolysis of alkyl halides.</p> <p>Preparation of methanol from water gas and synthesis gas.</p> <p>Preparation of ethanol by hydration of ethene. Preparation of rectified spirit, absolute alcohol, spectroscopic alcohol, "super dry" alcohol.</p> <p>Identification of methanol.</p> <p>Chemical properties : Reaction with <math>\text{PCl}_5</math>.</p> <p>Uses of methanol.</p> <p>For Phenols : Preparation (phenol) from aniline (laboratory process).</p> <p>Benzoylation of Phenol.</p> <p>Phenol – formaldehyde resin.</p> <p>For Ethers : In case of chemical properties reaction with HI.</p> <p>Reaction of diethyl ether with aerial oxygen in the presence of light.</p> <p>Preparation of peroxide – free diethyl ether.</p> <p>● <b>Unit XII : Aldehydes, Ketones and Carboxylic Acids and their derivatives.</b></p> <p>For Aldehydes and Ketones : Gatterman aldehyde synthesis of Benzaldehyde.</p> <p>In case of chemical properties of aldehydes and ketones : Reduction with <math>\text{H}_2/\text{Catalyst}</math>; <math>\text{Na} - \text{Hg}</math>, <math>\text{H}_2\text{O}</math>.</p> <p>Hemiacetal and acetal formation.</p> <p>Reaction with hydrazine, phenylhydrazine, Semicarbazide.</p> <p>Benzoin condensation.</p> <p>Perkin reaction.</p> <p>For Carboxylic Acids : Preparation of Carboxylic Acids</p> <p>By the hydrolysis of alkyl and aryl cyanides.</p> <p>By using Grignard reagent.</p> <p>In case of chemical properties of Carboxylic Acids : Reaction with <math>\text{PCl}_3</math>, <math>\text{PCl}_5</math> and <math>\text{SOCl}_2</math>.</p> <p>Hunsdiecker reaction.</p> <p>In case of Derivatives of Carboxylic Acids : Acetyl chloride, acetic anhydride, Acetamide, ethyl acetate – preparation.</p> <p>● <b>Unit XIII : Organic Compounds Containing Nitrogen</b></p> <p>For preparation of primary amines, Gabriel's phthalimide synthesis.</p> <p>For chemical properties of amines :</p> <p>Isocyanide (carbylamine) reaction.</p> <p>For Benzenediazonium Salts : Reactions involving replacement of diazo group by H, CN, <math>\text{NO}_2</math>.</p> <p>Reduction.</p> <p>Cyanides and Isocyanides : Preparation.</p> <p>Reduction of nitrobenzene under different conditions.</p>

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		<ul style="list-style-type: none"> <li>● <b>Unit XIV : Biomolecules</b> For Carbohydrates : Osazone formation. Polysaccharides : Starch, Monomer units, Hydrolysis Identification. For Proteins : In case of Alpha Amino Acids, methionine, aspartic acid. Isoelectric point. Identification of Protein.</li> <li>● <b>Unit XV : Polymers :</b> For Polymers : Homopolymer and copolymer. Thermoplastic and thermosetting plastics (definition with examples). Preparation of Teflon and Terylene.</li> <li>● <b>Unit XVI : Chemistry in Every Day Life :</b> For Chemicals in Medicines : Antimicrobials, antifertility drugs, antihistamines. Cleansing Agents : Soaps and detergents – their chemical composition and cleansing action.</li> </ul>
17.	Mathematics (MTH2) Discipline : Engineering Technology	<ul style="list-style-type: none"> <li>● <b>Unit-I :- Algebra :</b> 1.1 Invertible matrix 1.2 Adjoint &amp; Inverse of a Square Matrix, Cramer's rule</li> <li>● <b>Unit-II :- Differential Calculus :</b> 2.1 Testing of continuity problem 2.4 (a) Maxima - Minima</li> <li>● <b>Unit-III :- Integral Calculus :</b> 3.1 By parts 3.3 Application of definite integral</li> <li>● <b>Unit-IV :- Differential Equation :</b> 4.1 Solution of homogeneous differential equation.</li> <li>● <b>Unit-V :- Vector :</b> 5.1 Projection of a vector on a line.</li> </ul>



Chief Administrative Officer  
WBSC TVESD