

RISHI AUROBINDO MEMORIAL ACADEMY

134, P. K. GUHA ROAD, AIRPORT GATE NO. 1 KOLKATA-28

ANNUAL SYLLABUS OF 2022-23

CLASS XI

TIME DURATION	2 ND WEEK OF APRIL TO LAST WEEK OF AUGUST					
SUBJECTS	ASSESSMENT I	PROJECT/PRACTICAL	MID TERM [Including Assessment I]	ASSESSMENT II	PROJECT/PRACTICAL	FINAL TERM
ENGLISH LANGUAGE	<ol style="list-style-type: none"> PROPOSAL WRITING BOOK REVIEW GRAMMAR FILM REVIEW 	EMAIL WRITING AND THE RELEVANCE OF EMAIL IN THE PRESENT TIMES.	<ol style="list-style-type: none"> ARTICLE WRITING COMPOSITION PERSONAL PROFILE GRAMMAR 	<ol style="list-style-type: none"> REPORT WRITING STATEMENT OF PURPOSE SPEECH WRITING GRAMMAR 	ARGUMENTATIVE ESSAY TOPIC- SCHOOL LIFE IS THE BEST PHASE OF AN INDIVIDUAL'S LIFE. GIVE YOUR VIEWS FOR OR AGAINST THE MOTION.	Full syllabus <ol style="list-style-type: none"> COMPREHENSION Review of cultural programme GRAMMAR FILM REVIEW
ENGLISH LITERATURE	<ol style="list-style-type: none"> Salvatore Fritz The Dolphins Gift of India <p>The Tempest Act I, Scene 1 Act I, Scene 2 (Part)</p>	Write a critical note on JOHN BROWN as an anti war poem. (1000-1500 words).	<ol style="list-style-type: none"> Salvatore Fritz The Dolphins Gift of India The Chinese Statue John Brown Desiderata <p>The Tempest Act I, Scene 1 Act I, Scene 2 Act II, Scene 1</p>	<ol style="list-style-type: none"> The Spider and the Fly A Gorilla in the guest room <p>The Tempest Act II, Scene 2 Act III, Scene 1</p>	Discuss the character of Prospero in <i>The Tempest</i> by William Shakespeare.	Full syllabus <ol style="list-style-type: none"> The Spider and the Fly A Gorilla in the guest room Quality <p>The Tempest Act I. Scenes 1 & 2 Act II. Scenes 1 & 2 Act III. Scenes 1, 2 & 3</p>
HINDI	Literature <ol style="list-style-type: none"> पुत्र प्रेम गौरी साखी बाल लीला <p>सारा आकाश पूर्वार्ध-1, 2,3 व्याकरण वाक्य शुद्धिकरण, निबंध</p>	शरणागत कहानी का सारांश, शीर्षककी सार्थकता ,कहानी का उद्देश्य ऑनलाइन क्लासेज का अनुभव उससे क्या लाभ और हानि हुआ इस महामारी के समय पढ़ाई पर किस तरह प्रभाव पड़ा	<ol style="list-style-type: none"> शरणागत एक फूल की चाह <p>साराआकाश -4-5 व्याकरण- मुहावरा, अपठित गद्यांश</p>	<ol style="list-style-type: none"> सती आउटसाइडर आ: धरती की कितना देती है नदी के दीप <p>साराआकाशपूर्वार्ध 6-10 व्याकरण वाक्य शुद्धिकरण, कहानी लेखन</p>	सती कहानी की शीर्षक की सार्थकता, कहानी का उद्देश्य , कहानी का सारांश ,लेखक का जीवन परिचय.	Full syllabus

<p style="text-align: center;">BENGALI</p>	<ol style="list-style-type: none"> 1. গদ্য ও প্রবন্ধ সংকলন- ঠাকুরদা, জোড়াসাঁকোর ধারে , 2. কবিতা- ওরা কাজ করে, পূব পশ্চিম 3. কোনি- প্রথম ও দ্বিতীয় 4. ব্যাকরণ – প্রবন্ধ , বোধ পরীক্ষণ , বাক্য পরিবর্তন , বাচ্য পরিবর্তন, 	<p>প্রকল্প-রাতের সার্কাস মাঠের আত্মকথা</p>	<ol style="list-style-type: none"> 1. গদ্য ও প্রবন্ধ সংকলন - তাসের ঘর 2. কবিতা - বনলতা সেন 3. কোনি- তৃতীয় ও চতুর্থ 4. ব্যাকরণ - প্রবন্ধ , উক্তি পরিবর্তন, অশুদ্ধ সংশোধন 	<ol style="list-style-type: none"> 1. গদ্য ও প্রবন্ধ সংকলন- অনাচার , ঠাকুরদা , 2. কবিতা- পূব-পশ্চিম , বর্ণপরিচয় 3. কোনি-পঞ্চমওষষ্ঠ 4. ব্যাকরণ - প্রবন্ধ , এক কথায় প্রকাশ , পদ পরিবর্তন , বিপরীত শব্দ , বোধ পরীক্ষণ , 	<p>প্রকল্প- তাসের ঘর ও অনাচার গল্প অবলম্বনে দুটি ভিন্ন নারী মনস্ত্বের আলোচনা করো</p>	<p>Full syllabus গদ্য ও প্রবন্ধ সংকলন – রেকর্ড কবিতা – সালেমনের মা , ওরা কাজ করে কোনি- সপ্তম ব্যাকরণ - ভিন্নার্থক শব্দ, বাংলার প্রবাদ-প্রবচণ</p>
<p style="text-align: center;">PHYSICAL EDUCATION</p>	<ol style="list-style-type: none"> 1. (CH.NO- 1) CONCEPT OF PHYSICAL EDUCATION -MEANING OF PHYSICAL EDUCATION -MISCONCEPT OF PHYSICAL EDUCATION -MEANING OF PLAY AND RECREATION 2. (CH.NO-2) INDIVIDUAL ASPECTS AND GROUP DYNAMICS -INTEREST AND ATTITUDE -MOTIVATION -LEADERSHIP 	<p>ICC CRICKET WORLD CUP</p>	<ol style="list-style-type: none"> 1. (CH.NO-3) EFFECTS OF PHYSICAL EXERCISE ON HUMAN BODY SYSTEMS -SKELETAL SYSTEM -MUSCULAR SYSTEM -RESPIRATORY SYSTEM -DIGESTIVE SYSTEM 	<ol style="list-style-type: none"> 1. (CH.NO-4) NUTRITION , WEIGHT CONTROL AND EXERCISE -NUTRITION BASICS -BALANCED DIET -OBESITY AND WEIGHT CONTROL 2. (CH.NO-5) PHYSICAL FITNESS AND WELLNESS -PHYSIQUE , PHYSICAL FITNESS AND WELLNESS -COMPONENTS OF PHYSICAL FITNESS AND WELLNESS -FACTORS AFFECTING PHYSICAL FITNESS AND WELLNESS 3. (CH.NO-6) GAMES AND SPORTS – A GLOBAL PERSPECTIVE -OLYMPICS AS A SOCIAL FORCE 	<p>FIFA FOOTBALL WORLD CUP</p>	<p>Full syllabus</p>

EVS	<ol style="list-style-type: none"> Chapter – 1 Mode of Existance Chapter – 2 Ecology Chapter – 3 Pollution 	Project – Pollution	<ol style="list-style-type: none"> Chapter – 1 Mode of Existance Chapter – 2 Ecology Chapter – 3 Pollution Chapter - 4 Legal Regimes for Sustainable Development Chapter – 5 Technology & Environment 	<ol style="list-style-type: none"> Chapter – 6 Design & Planning for Environmental Conservation and Protection Chapter – 1 Mode of Existance 	Project – Pollution	Full Syllabus
PSYCHOLOGY	<ol style="list-style-type: none"> Chapter 1: The subject of psychology Chapter 2: Methods of psychology 	SENSORY PROCESS	<ol style="list-style-type: none"> Chapter 1: The subject of psychology Chapter 2: Methods of psychology Chapter 3: Attention and Perception Chapter 4: Emotion and Motivation 	<ol style="list-style-type: none"> Chapter 5: Learning Chapter 6: Remembering and forgetting 	ON MEMORY	Full syllabus Chapter 7: Thinking, Problem Solving and Creativity
COMPUTER	<ol style="list-style-type: none"> Numbers Encodings Propositional logic, Hardware implementation, Arithmetic operations Introduction to Object Oriented Programming using Java Objects Arrays 	15 Java Programs.	<ol style="list-style-type: none"> Numbers Encodings Propositional logic, Hardware implementation, Arithmetic operations Introduction to Object Oriented Programming using Java Objects Basic input/output Data File Handling (Binary and Text) Implementation of algorithms to solve problems Arrays Methods and Constructors 	<ol style="list-style-type: none"> Variables, Expressions Statements, Scope Primitive values, Wrapper classes, Types and casting Strings Recursion Packages Trends in computing and ethical issues 	15 Java Programs(+15 java programs of Mid-Term)	Full syllabus <ol style="list-style-type: none"> Propositional logic, Hardware implementation, Arithmetic operations Primitive values, Wrapper classes, Types and casting Variables, Expressions Arrays Methods and Constructors Strings Recursion Trends in computing and ethical issues Implementation of algorithms to solve problems

PHYSICS	<ol style="list-style-type: none"> Physical world and measurement Kinematics Laws of motion Mechanical properties of solids 	<p>An introduction to semi conductors Black body radiation</p>	<ol style="list-style-type: none"> Gravitation Work, energy and power Mechanical properties of fluid 	<p>System of particles and rotation Heat and thermodynamics</p>	Lab Manual	Full syllabus
CHEMISTRY	<ol style="list-style-type: none"> CH1- Some basic concepts of chemistry CH2- Structure of atom CH3- Classification of elements and periodicity in properties CH4- Chemical bonding 	<p>Project- insecticides, pesticides and chemical fertilizers</p>	<ol style="list-style-type: none"> CH5- States of matter CH8- Redox reactions CH9- Hydrogen CH12- Organic chemistry: some basic principles and techniques 	<ol style="list-style-type: none"> CH6- THERMODYNAMICS CH7- Equilibrium CH10- s block elements CH11- p block elements 	Lab Manual	<p>Full syllabus</p> <ol style="list-style-type: none"> CH13- Hydrocarbon CH14- Environmental Chemistry
MATHEMATICS	<ol style="list-style-type: none"> Sets Relations & Functions Trigonometry Principle of Mathematical Induction 	<p>Using Venn Diagram Verify the Distribute Law for 3 given non-empty sets A, B, C Assessment – 2</p> <ol style="list-style-type: none"> Permutations & Combinations Binomial Theorem Sequence & Series Limits & Derivatives 	<p><u>Sec –A</u></p> <ol style="list-style-type: none"> Sets Relations & Functions Trigonometry (upto Compound & Multiply angles) Principle of Mathematical Induction Complex Numbers Quadratic equations Straight lines Statistic Linear Inequalities <p><u>Sec – B</u></p> <ol style="list-style-type: none"> Conic sections (Only Parabola) Introduction to 3-D Geometry <p><u>Sec –C</u></p> <ol style="list-style-type: none"> Statistics 	<ol style="list-style-type: none"> Relations & functions Trigonometry Permutations & Combinations Sequence & Series Binomial Theorem circles Limits & Derivatives Probability <p>Straight lines</p>	<p><u>Sec- B</u> Write Geometrical significance of X Coordinate, Y coordinate & Z Coordinate in space. Using the above, find the distance of the point in space from x – axis/ y-axis/z-axis. Explain the above using a 3-D model / power point presentation.</p> <p><u>Sec – C</u> Calculate the correlation coefficient by Karl Pearson method between any two variables. (Take 2 case studies). Also draw the scatter diagram.</p>	<p>Full syllabus</p> <p><u>Sec-B</u></p> <ol style="list-style-type: none"> Conic Sections Correlation Analysis Index & Moving Averages

BIOLOGY	<p>1. Unit 1.Diversity of Living Organisms 2. Unit 2.Structural Organisation in Animals and Plants i. Morphology of Flowering Plants</p>	<p>Diabetes/ endocrine disorders/aids/human genome project</p>	<p>1.Unit 2.Structural Organisation in Animals and Plants ii. Anatomy of Flowering Plants iii. Structural Organisation in Animals 2.Unit 3.Cell: Structure and Function i. Cell-The Unit of Life ii. Biomolecules iii. Cell Cycle and Cell Division</p>	<p>1.Unit 4.Plant Physiology</p>	<p>Lab Manual</p>	<p>Full syllabus 1.Unit 5.Human Physiology</p>
POLITICAL SCIENCE	<p>1. Introduction to Political Science 2. The Origin of the State 3. Political Ideologies 4. Sovereignty 5. International Relations:- Cold War 6. Regional Cooperation</p>	<p>Regional Cooperation</p>	<p>1. Introduction to Political Science 2. The Origin of the State 3. Political Ideologies 4. Sovereignty 5. International Relations:- Cold War 6. Regional Cooperation</p>	<p>1. Law 2. Liberty 3. Equality 4. Justice 5. Unipolar World 6. Non Aligned Movement</p>	<p>Non Aligned Movement</p>	<p>Full syllabus</p>

HISTORY	<ol style="list-style-type: none"> 1. Growth of Nationalism 2. Emergence of the Colonial Economy 3. Socio and Religious Movements 4. Protest Movements against Colonial Rule 5. Impact of the second phase of Industrialization in Europe during the late 19th and early 20th centuries 6. World War I 7. Peace Settlements after World War I and the Establishment of the League of Nations 8. The Great Depression 9. Rise of Communism: Russia 	Socio and Religious Movements	<ol style="list-style-type: none"> 1. Growth of Nationalism 2. Emergence of the Colonial Economy 3. Socio and Religious Movements 4. Protest Movements against Colonial Rule 5. Impact of the second phase of Industrialization in Europe during the late 19th and early 20th centuries 6. World War I 7. Peace Settlements after World War I and the Establishment of the League of Nations 8. The Great Depression 9. Rise of Communism: Russia 	<ol style="list-style-type: none"> 1. Gandhian Nationalism 2. Rise of Fascism: Italy 3. Rise of Nazism: Germany 4. Rise of Militarism: Japan 	Life sketch and contribution of Tilak/ Rabindranath Tagore towards Nationalism	Full syllabus
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GEOGRAPHY	<p>Geography as a discipline; Age and Origin of the Earth; Interior of the Earth; Rocks; Endogenous processes and associated landforms; Drifting of continent and plate tectonics; Isotasy; Volcanoes and Earthquakes; Exogenous processes and associated landforms; Soils;</p> <p>Map work:</p> <ul style="list-style-type: none"> (i) Mountains (ii) Plateaus (iii) Water Bodies (iv) Rivers 	<p>A NATURAL HAZARD: ANY TROPICAL CYCLONES. [ANY NATURAL HAZARDS LIKE DROUGHT, FLOOD, EROSION, LANDSLIDE, ETC. IN A LOCAL AREA.]</p>	<p>Fluvial process and associated landform; Aeolian process and associated landforms; Glacial and associated landforms; Work of ground water and associated landforms; Marine and associated landforms; Coral Reefs; Composition and Structure of the atmosphere; Insolation and Temperature; Atmospheric Pressure and Wind; Atmospheric Moisture; [Including Assessment I]</p>	<p>Submarine relief and deposits; Marine deposits; Ocean water; Ocean Water movements; The Biosphere; Biodiversity; Biodiversity for sustenance of mankind; India as a mega diversity nation; Loss of Biodiversity; Strategies for conservation of Biodiversity;</p>	<p>Practical: Survey, statistical diagrams and map projection</p>	<p>Full syllabus World climate types; Climate change; Natural Hazards;</p> <p>Map work:</p> <ul style="list-style-type: none"> (i) Ocean currents (ii) Island (iii) Climatic region
ECONOMICS	<ol style="list-style-type: none"> 1. Chapter: Definition of Economics 2. Chapter: Basic concepts of economics 3. Chapter: Basic problems of economy 4. Chapter: Solution to the basic problems of an economy 	<p>Role of human capital in India</p>	<ol style="list-style-type: none"> 1. Chapter: Economic Growth and development 2. Chapter: Human Capital formation in India 3. Chapter: Introduction to statistics (theory) 4. Chapter: Measures of Central tendency 	<ol style="list-style-type: none"> 1. Chapter: Poverty 2. Chapter: Sustainable development 3. Chapter: Correlation 4. Chapter: Dispersion 5. Chapter: Parameter of economic development 	<p>Agriculture in India</p>	<p>Full syllabus Chapter: Index Number Chapter: Agriculture Chapter: Post and pre liberalisation Chapter: Unemployment (Whole syllabus as per the rules of CISCE).</p>
COMMERCE	<ol style="list-style-type: none"> 1. Chapter: Nature and purpose of business 2. Chapter: Forms of business organization (sole proprietorship and partnership) 	<p>Formation of Partnership Business</p>	<ol style="list-style-type: none"> 1. Chapter: Forms of business organization 2. Chapter: Social Responsibility of Business and Business Ethics 3. Chapter: Stock exchange 	<ol style="list-style-type: none"> 1. Chapter: Emerging modes of business 2. Chapter: Inland trade 	<p>Ecommerce</p>	<p>Full syllabus</p> <ol style="list-style-type: none"> 1. Chapter: Foreign trade 2. Chapter: Insurance (Whole syllabus as per the rules of CISCE).

<p style="text-align: center;">ACCOUNTS</p>	<ol style="list-style-type: none"> 1. Chapter: Introduction to Accounting 2. Chapter: Journal, ledger 3. Chapter: Journal proper 4. Chapter: Trial Balance 	<p>Bank Reconciliation statement</p>	<ol style="list-style-type: none"> 1. Chapter: Cash Book 2. Chapter: Bank Reconciliation Statement 3. Chapter: Final Account with adjustment 	<ol style="list-style-type: none"> 1. Chapter: Single Entry 2. Chapter: Bills of Exchange 3. Chapter: Rectification of errors 	<p>Non trading Organisation</p>	<p>Full syllabus Whole syllabus as per the rules of CISCE</p>
<p style="text-align: center;">BUSINESS STUDIES</p>	<ol style="list-style-type: none"> 1. Chapter: Business environment 2. Chapter: Entrepreneurship 	<p>SWOT ANALYSIS</p>	<ol style="list-style-type: none"> 1. Chapter: Business Risk and failure. 2. Chapter: Authority, responsibility and accountability 	<ol style="list-style-type: none"> 1. Chapter: Managerial roles 2. Chapter: Change Management 	<p>Entrepreneurship</p>	<p>Full syllabus</p> <ol style="list-style-type: none"> 1. Chapter: Automation at work place 2. Chapter: Productivity tools (Whole syllabus as per the rules of CISCE).