

<b>ST. MONTFORT'S SENIOR SECONDARY SCHOOL</b>	
<b>SYLLABUS OF CLASS-XI (SCIENCE), FOR SESSION 2023 - 24</b>	
<b>1</b>	<b>SUBJECT: ENGLISH CORE (Code: 301)</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
<b>APRIL, MAY</b>	<b>HORNBILL (Prose)</b> : Portrait of a Lady
	<b>HORNBILL (Poetry)</b> : A Photograph
	<b>SNAPSHOTS (Prose)</b> : The Summer of the Beautiful White Horse
	<b>GRAMMAR</b> : Gap Filling, general grammar
	<b>COMPOSITION</b> : Poster, Debate
	<b>COMPREHENSION</b> : Unseen
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM APRIL - MAY)</b>	
<b>JUNE, JULY, AUGUST</b>	<b>HORNBILL (Prose)</b> : Discovering Tut: The Saga Continues
	<b>HORNBILL (Prose)</b> : "We're Not Afraid To Die... if We All Can Be Together"
	<b>HORNBILL (Poetry)</b> : The Laburnum Top
	<b>HORNBILL (Poetry)</b> : The Voice of the Rain
	<b>SNAPSHOTS</b> : The Address
	<b>GRAMMAR</b> : Transformation of Sentences / Reordering
	<b>COMPOSITION</b> : Advertisement
	<b>COMPREHENSION</b> : Unseen
<b>HALF YEARLY SYLLABUS (PORTIONS FROM APRIL - AUGUST)</b>	
<b>2.1</b>	<b>SUBJECT: PHYSICS (Code: 042) THEORY</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
<b>APRIL, MAY</b>	UNIT AND MEASUREMENT
	MOTION IN A STRAIGHT LINE
	MOTION IN A PLANE
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM APRIL - MAY)</b>	
<b>JUNE, JULY, AUGUST</b>	MOTION IN A PLANE
	LAWS OF MOTION
	MECHANICAL PROPERTIES OF SOLID
	MECHANICAL PROPERTIES OF LIQUID
<b>HALF YEARLY SYLLABUS (PORTIONS FROM APRIL - AUGUST)</b>	
<b>2.2</b>	<b>SUBJECT: PHYSICS PRACTICAL</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
<b>APRIL, MAY</b>	TO MEASURE THE INTERNAL DIAMETER AND DEPTH OF A GIVEN BEAKER USING VERNIER CALLIPERS & HENCE FIND ITS VOLUME
	TO MEASURE DIAMETER OF A GIVEN WIRE USING SCREW GAUGE
	TO DETERMINE RADIUS OF CURVATURE OF A GIVEN SPHERICAL SURFACE BY A SPHEROMETER
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM APRIL - MAY)</b>	

<b>JUNE, JULY, AUGUST</b>	TO FIND WEIGHT OF A GIVEN BODY USING PARALLELOGRAM LAW OF VECTORS
	USING SIMPLE PENDULAM,PLOT ITS L-T <sup>2</sup> GRAPH AND USE IT TO FIND THE EFFECTIVE LENGTH.
<b>HALF YEARLY SYLLABUS (PORTIONS FROM APRIL - AUGUST)</b>	
<b>3.1</b>	<b>SUBJECT: CHEMISTRY (Code: 043)</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
<b>APRIL, MAY</b>	CH 1 : SOME BASIC CONCEPTS OF CHEMISTRY
	CH 2 : STRUCTURE OF ATOM
	CH 3 : CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM APRIL - MAY)</b>	
<b>JUNE, JULY, AUGUST</b>	CH 3 : CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES(CONT.)
	CH 4 : CHEMICAL BONDING AND MOLECULAR STRUCTURE
	CH 6 : THERMODYNAMICS
	CH 7 : EQUILIBRIUM
	CH 12 : ORGANIC CHEMISTRY - SOME BASIC PRINCIPLES AND TECHNIQUES
<b>HALF YEARLY SYLLABUS (PORTIONS FROM APRIL - AUGUST)</b>	
<b>3.2</b>	<b>SUBJECT: CHEMISTRY PRACTICALS</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
<b>APRIL, MAY</b>	USING A MECHANICAL BALANCE OR ELECTRONIC BALANCE
	PREPARATION OF THE STANDARD SOLUTION OF OXALIC ACID
	DETERMINATION OF THE STRENGTH OF A GIVEN SOLUTION OF NaOH BY TITRATING IT AGAINST A STANDARD SOLUTION OF OXALIC ACID
	PREPARATION OF THE STANDARD SOLUTION OF SODIUM CARBONATE
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM APRIL - MAY)</b>	
<b>JUNE, JULY, AUGUST</b>	DETERMINATION OF THE STRENGTH OF THE GIVEN SOLUTION OF HCl BY TITRATING IT AGAINST A STANDARD SOLUTION OF SODIUM CARBONATE
	DETERMINATION OF THE MELTING POINT OF AN ORGANIC COMPOUND
	DETERMINATION OF THE BOILING POINT OF AN ORGANIC COMPOUND
	DETERMINATION OF THE pH OF SOME SOLUTIONS OBTAINED FROM FRUIT JUICES, SOLUTION OF KNOWN AND VARIED CONCENTRATIONS OF ACIDS, BASES AND SALTS USING pH PAPER OR UNIVERSAL INDICATORS
<b>HALF YEARLY SYLLABUS (PORTIONS FROM APRIL - AUGUST)</b>	
<b>4.1</b>	<b>SUBJECT : BIOLOGY (Code: 044) THEORY</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
<b>APRIL, MAY</b>	CHAPTER-1 : THE LIVING WORLD
	CHAPTER-8 : CELL : THE UNIT OF LIFE
	CHAPTER-10 : CELL CYCLE AND CELL DIVISION
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM APRIL - MAY)</b>	
	CHAPTER-2 : BIOLOGICAL CLASSIFICATION

<b>JUNE, JULY, AUGUST</b>	CHAPTER-3 : PLANT KINGDOM
	CHAPTER-5 : MORPHOLOGY OF FLOWERING PLANTS
	CHAPTER-14 : RESPIRATION IN PLANTS
	CHAPTER-15 : PLANT, GROWTH AND DEVELOPMENT
	CHAPTER-17 : BREATHING AND EXCHANGE OF GASES
<b>HALF YEARLY SYLLABUS (PORTIONS FROM APRIL - AUGUST)</b>	
<b>4.2</b>	<b>SUBJECT : BIOLOGY PRACTICAL</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
<b>APRIL, MAY</b>	Parts of a compound microscope.
	Specimens/slides/models and identification with reasons - Bacteria, Spirogyra, Rhizopus, mushroom, yeast, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.
	Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM APRIL - MAY)</b>	
<b>JUNE, JULY, AUGUST</b>	Study and description of locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location)
	Study of osmosis by potato osmometer.
	Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).
	Different types of inflorescence (cymose and racemose).
<b>HALF YEARLY SYLLABUS (PORTIONS FROM APRIL - AUGUST)</b>	
<b>5</b>	<b>SUBJECT : MATHEMATICS (Code: 041)</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
<b>APRIL, MAY</b>	<b>1. SETS</b>
	<b>2. RELATIONS AND FUNCTINS</b>
	<b>3. TRIGONOMETRIC FUNCTIONS</b>
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM APRIL - MAY)</b>	
<b>JUNE, JULY, AUGUST</b>	<b>5. COMPLEX NUMBERS AND QUADRATIC EQUATIONS</b>
	<b>6. LINEAR INEQUALITIES</b>
	<b>7. PERMUTATIONS AND COMBINATIONS</b>
	<b>8. BINOMIAL THEOREM</b>
	<b>9. SEQUENCES AND SERIES</b>
	<b>MATHS ACTIVITY</b>
<b>HALF YEARLY SYLLABUS (PORTIONS FROM APRIL - AUGUST)</b>	
<b>6.1</b>	<b>SUBJECT: COMPUTER SCIENCE (Code: 083)</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
<b>APRIL, MAY</b>	Ch 1 Computer And its Organisation
	Ch 2 Number System

	Ch 3 Problem Solving
	Ch 4 Boolean Algebra
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)</b>	
JUNE, JULY, AUGUST	Ch 5 Getting Started with Python
	Ch 8 Flow of Control
	Ch 9 String Manipulation
<b>HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)</b>	
<b>6.2</b>	<b>SUBJECT: COMPUTER SCIENCE (Code: 083) PRACTICAL</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
<b>APRIL, MAY</b>	Input a welcome message and display it.
	Perform four basic mathematical calculations with two numbers taken as input.
	Perform mathematical expression using Python
	Given two integers 'x' and 'n', compute $x^n$ .
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM APRIL - MAY)</b>	
<b>JUNE, JULY, AUGUST</b>	Swap two values taken as input.
	Compare two variables using Boolean operator.
	Input two integers and display the larger / smaller number.
	Input three integers and display the larger / smaller number.
	Input the value of 'x' and 'n' and print the sum of different series.
	Input a number and check if the number is a prime or a composite number.
	Determine whether a number is a perfect number, an armstrong number or a palindrome
	Display the terms of a Fibonacci series.
	Compute the greatest common divisor and least common multiple of two integers
<b>HALF YEARLY SYLLABUS (PORTIONS FROM APRIL - AUGUST)</b>	
<b>7</b>	<b>SUBJECT: I.T. (Code: 802)</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
<b>APRIL, MAY</b>	Communication Skills III
	Computer Organisation
	Self Management Skill III
	Networking And Internet
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM APRIL - MAY)</b>	
<b>JUNE, JULY, AUGUST</b>	ICT Skills III
	Office Automation Tools
	Green Skills III
	Programs in Java
	RDBMS
	Practical File
<b>HALF YEARLY SYLLABUS (PORTIONS FROM APRIL - AUGUST)</b>	
<b>8</b>	<b>SUBJECT: PHYSICAL EDUCATION (Code: 084 )</b>
<b>MONTHS</b>	<b>UNIT/TOPIC/CONTENT</b>
	<b>Unit 1: Changing Trends &amp; Career in Physical Education.</b>

<b>APRIL, MAY</b>	<b>Unit 2: Olympism</b>
	<b>Unit 3: Yoga</b>
	<b>Yoga (Practical)</b>
<b>FIRST MID - TERM SYLLABUS (PORTIONS FROM APRIL - MAY)</b>	
<b>JUNE, JULY, AUGUST</b>	<b>Unit 4: Physical Education &amp; Sports for (CWSN)</b>
	<b>Physical Fitness Test :SAI Khelo India Test</b>
	<b>Unit 5: Physical Fitness, Health &amp; Wellness</b>
	<b>Practical Test</b>
	<b>Unit 6: Test, Measurement &amp; Evaluation</b>
	<b>Record File</b>
	<b>VIVA VOCE (Health , Yoga)</b>
<b>HALF YEARLY SYLLABUS (PORTIONS FROM APRIL - AUGUST)</b>	











