	ST. MONTFORT'S SENIOR SECONDARY SCHOOL	
	SYLLABUS OF CLASS-XII (SCIENCE), FOR SESSION 2023 - 24	
1	SUBJECT: ENGLISH CORE (Code: 301)	
MONTHS	UNIT/TOPIC/CONTENT	
	FLAMINGO (Poetry): My Mother at Sixty - six	
	FLAMINGO (Prose): The Last Lesson, The Lost Spring	
	VISTAS (Prose): The Third Level	
	FLAMINGO (Poetry) : Keeping Quiet	
MARCH, APRIL, MAY	FLAMINGO (Prose) : Deep water	
/ (i i (i <b>L</b> , i <b>v</b> i) (i	VISTAS (Prose): The Tiger King	
	GRAMMAR: General grammar	
	COMPOSITION: Notice / Formal and informal invitation and reply	
	COMPREHENSION: Unseen	
	FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)	
	COMPOSITION: Letter (based on verbal / visual)	
	COMPREHENSION: Unseen	
	FLAMINGO (Prose): The Rat Trap, Indigo	
	VISTAS (Prose): The Journey to the End of the Earth	
JUNE, JULY,	VISTAS (Poetry): A Thing of Beauty	
AUGUST	VISTAS (Prose): The Enemy	
	FLAMINGO (Prose): Poets and Pancakes	
	FLAMINGO (Poetry) : Aunt Jennifer's Tiger	
	GRAMMAR: General grammar	
	COMPREHENSION: Unseen	
	HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)	
2.1	SUBJECT: PHYSICS (Code: 042 ) THEORY	
MONTHS	UNIT/TOPIC/CONTENT	
MARCH	ELECTRIC CHARGES & FIELDS	
MARCH, APRIL, MAY	ELECTROSTATIC POTENTIAL AND CAPACITANCE	
/ (	CURRENT ELECTRICITY	
	FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)	
JUNE, JULY, AUGUST	ALTERNATING CURRENT	
	MOVING CHARGES AND MAGNETISM	
	MAGNETISM AND MATTER	
	ELECTRO MAGNETIC INDUCTION	
	ELECTROMAGNETIC WAVES	
	HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)	
2.2	SUBJECT: PHYSICS PRACTICAL	

MONTHS	UNIT/TOPIC/CONTENT
MARCH, APRIL, MAY	TO DETERMINE RESISTIVITY OF TWO WIRES BY PLOTING A GRAPH FOR POTENTIAL DIFFERENCE VS CURRENT
	TO FIND RESISTANCE OF A GIVEN WIRE USING METER BRIDGE
	FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)
JUNE, JULY, AUGUST	TO VERIFY THE LAWS OF COMBINATION OF RESISTANCE USING A METER BRIDGE
	TO DETERMINE THE INTERNAL RESISTANCE OF A GIVEN CELL BY POTENTIOMETER
	TO CONVERT THE GIVEN GALVANOMETER INTO A VOLTMETER OF DERIVED RANGE
	HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)
3.1	SUBJECT: CHEMISTRY (Code: 043) THEORY
MONTHS	UNIT/TOPIC/CONTENT
	CH 2 : SOLUTIONS
MARCH,	CH 3: ELECTROCHEMISTRY
APRIL, MAY	CH 4 : CHEMICAL KINETICS
	CH 8 : THE d- BLOCK AND f- BLOCK ELEMENTS
	FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)
	CH 8 : THE d- BLOCK AND f- BLOCK ELEMENTS
	CH 9 : COORDINATION COMPOUNDS
JUNE, JULY,	CH 10 : HALOALKANES AND HALOARENES
AUGUST	CH 11 : ALCOHOLS, PHENOLS AND ETHERS
	CH 12 : ALDEHYDES, KETONES AND CARBOXYLIC ACID
	HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)
3.2	SUBJECT: CHEMISTRY PRACTICAL
MONTHS	UNIT/TOPIC/CONTENT
	TO STUDY THE VARIATION OF CELL POTENTIAL IN Zn / Zn // Cu / Cu CELL WITH CHANGE IN CONCENTRATION OF ELECTROLYTES (CuSO AND ZnSO ) AT ROOM TEMPERATURE
	DETERMINE THE ENTHALPY OF NEUTRALISATION OF HYDROCHLORIC ACID AND NaOH SOLUTION
MARCH,	TO STUDY THE EFFECT OF CONCENTRATION ON THE RATE OF REACTION BETWEEN
APRIL, MAY	SODIUM THIOSULPHATE AND HCI ACID TO STUDY THE REACTION RATE OF REACTION OF IODIDE IONS WITH HYDROGEN
	PEROXIDE AT DIFFERENT CONCENTRATION OF IODIDE IONS
	TO PREPARE A PURE SAMPLE OF POTASS ALUM (FITKARI)
	PREPARATION OF POTASSIUM FERRIC OXALATE
	TO PREPARE AN ORGANIC COMPOUND (ANILINE, DIBENZALACETONE, P-NITRO ACETANILIDE OR 2-NAPTHOL ANILINE DYE)
	FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)
	PREPARE M/40 SOLUTION OF OXALIC ACID. WITH ITS HELP DETERMINE THE MOLARITY AND STRENGTH OF THE GIVEN SOLUTION KMnO
JUNE, JULY,	DETERMINE THE NO. MOLECULES OF WATER OF CRYSTALLIZATION IN A SAMPLE OF MOHR'S SALT, ( ) PROVIDED 0.01M KMnO

	TO DETECT THE PRESENCE OF CARBOHYDRATES, FATS AND PROTEIN IN THE FOLLOWING
	FOOD STUFFS : GRAPES, POTATOES, RICE, BUTTER, BISCUITS, MILK, GROUNDNUT,
	BOILED EGGS.
	HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)
4.1	SUBJECT: BIOLOGY (Code: 044) THEORY
MONTHS	UNIT/TOPIC/CONTENT
	Chapter 3: Human Reproduction
MARCH, APRIL, MAY	Chapter 4: Reproductive Health
	Chapter 5: Principles of Inheritance and Variation.
	Chapter 8: Human Health and Diseases.
	FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)
	Chapter 7: Evolution
	Chapter 11: Biotechnology: Principles and Processes.
JUNE, JULY, AUGUST	Chapter 12: Biotechnology and its Applications.
//00001	Chapter 13: Organisms and Populations.
	Chapter 14: Ecosystem.
	HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)
4.2	SUBJECT: BIOLOGY PRACTICAL
MONTHS	UNIT/TOPIC/CONTENT
	SPOTTING : TS OF TESTIS
MARCH,	TS OF OVARY
APRIL, MAY	MEIOSIS IN ONION BUD CELL
,,	COMMON DISEASE CAUSING ORGANISM LIKE ASCARIS, ENTAMOEBA, PLASMODIUM, ANY
	FUNGUS CAUSING RINGWORM.
	FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)
JUNE, JULY,	STUDY THE PLANT POPULATION DENSITY BY QUADRAT METHOD
AUGUST	STUDY THE PLANT POPULATION FREQUENCY BY QUADRAT METHOD
	HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)
5	SUBJECT: MATHEMATICS (Code: 041)
MONTHS	UNIT/TOPIC/CONTENT
MARCH,	RELATIONS AND FRACTIONS
APRIL, MAY	INVERSE TRIGONOMETRIC FUNCTIONS
,	MATRICES
	FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)
	DETERMINANTS
	CONTINUITY AND DIFFERENTIABILITY
JUNE, JULY, AUGUST	APPLICATIONS OF DERIVATIVES
AUGUSI	INTEGRALS
	MATHS ACTIVITY
	HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)
6	SUBJECT: PHYSICAL EDUCATION (Code: 048)
MONTHS	UNIT/TOPIC/CONTENT

	Unit 1: Management of Sporting Events
MARCH, APRIL, MAY	Unit 2: Children and Women in Sports
	Unit 3: Yoga as Preventive Measure for lifestyle Disease
	Yoga (Practical)
	FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)
	Unit 4: Physical Education And Sports for CWSN
	Fitness Test: SAI Khelo India
	Unit 5: Sports and Nutrition
JUNE, JULY, AUGUST	Unit 6: Test, Measurement in Sports
	Viva Voce (Health, Games / Sports, Yoga)
	Record File
	Practical Test
	HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)
7.1	SUBJECT: COMPUTER SCIENCE (Code: 083)
MONTHS	UNIT/TOPIC/CONTENT
	Ch 1 Revision Python
MARCH,	Ch 3 Functions
APRIL, MAY	Ch 4 File Handling
	FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)
	Ch 5 Data Structure: Stack
JUNE, JULY,	Ch 6 Computer Networks I
AUGUST	Ch 7 Computer Networks II
	HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)
7.2	SUBJECT: COMPUTER SCIENCE (Code: 083) PRACTICAL
MONTHS	UNIT/TOPIC/CONTENT
	Write a function that returns the greater of two numbers.
	Write a random number generator that generates random numbers between 1 and 6
	(Stimulates a dice).
MARCH,	Read a text file line by line and display each word separated by a #.
APRIL, MAY	Read a text file and display the number of vowels / consonants / uppercase / lowercase
	characters in a file. Create a bin file with name and roll number. Search for a given roll no. and update the
	marks.
	Remove all the lines that contain a character from a file.
	FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)
	Implement a stack and queue using a list data - structure
JUNE, JULY,	Take a sample of ten phishing E - mails and find most commonly occuring words.
AUGUST	Write the code for push (Roll no.) and pop ( ) percentage obtained.
	HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)
8	SUBJECT: I.T. (Code: 802)
MONTHS	UNIT/TOPIC/CONTENT
	SUBJECT: I.T. (Code: 802)

MARCH, APRIL, MAY	ICT IV	
	Java	
	Communication Skill	
	Green Skill IV	
	Self Management Skill IV	
FIRST MID - TERM SYLLABUS (PORTIONS FROM MARCH - MAY)		
JUNE, JULY, AUGUST	Operating Web - based application	
	RDBMS	
	Practical File	
HALF YEARLY SYLLABUS (PORTIONS FROM MARCH - AUGUST)		