



Shree Narayana Central School
Annual Syllabus-Class XII Sci-Academic Sessions:2022-23



Subject :-

English

Month	Course Book	Literature Reader	Writing	Grammar	Activity
April	Flemingo Vistas	L1-The Last Lesson My Mother At sixty six (poem),The third Level	Notice Writing		ASL
May			Summer Break		
June	Flemingo Vistas	Lost Spring (F),Keeping Quiet(Poem) The Tiger King (V)	Invitations/ Replies		ASL
PA-1 Syllabus					
FLAMINGO-The Last Lesson,Lost Spring Poem - My Mother At sixty six,Keeping Quiet			VISTAS-The third Level,The Tiger King CREATIVE WRITING -Notice Writing,Invitation and reply		
July	Flemingo Vistas	Deep Water (F),A Thing Of Beauty (Poem) Journey to The End(V)			ASL
August	Flemingo Vistas	The Rattrap (F)			ASL
September	Flemingo Vistas	SA-1			
Half Yearly Syllabus					
FLAMINGO-The Last Lesson, Lost Spring, Deep Water,The rattrap, A thing of beauty. My Mother At sixty six,Keeping Quiet			VISTAS-The third Level,The Tiger King , Journey to the end CREATIVE WRITING -Notice Writing ,Invitation and reply		

Subject :-

English

Month	Course Book	Literature Reader	Writing	Grammar	Activity
October	Flemingo Vistas	Indigo (F),The Road Side Stand (P) The Enemy (V)	Letter Writing/ Application		ASL
November	Flemingo Vistas	Poets and Pancakes(F),Aunt Jennifer's Tiger (P) On the Face Of it (V)	Article /Report Writing		ASL
December	Flemingo Vistas	The Inerview (F),Memories of Childhood (V)			ASL
PA-2 Syllabus					
FLAMINGO -Indigo,Poets and Pancakes,The Inerview VISTAS -The Enemy,-On the Face Of it , Memories of Childhood			POEM -The Road Side Stand Aunt Jennifer's Tiger CREATIVE WRITING-Letter Writing/ Application Article/Report Writing		
January	Flemingo Vistas	Going Places (F)			ASL
February	Flemingo Vistas	Prelims			ASL
Annual Exam Syllabus					
FLAMINGO-The Last Lesson , Lost Spring,Deep Water The rattrap,-Indigo ,-Poets and Pancakes, The Inerview going places Poem - My Mother At sixty six,Keeping Quiet,A thing of beauty The Road Side Stand,Aunt Jennifer's Tiger			VISTAS-The third Level The Tiger King Journey to the end The Enemy On the Face Of it Memories of Childhood CREATIVE WRITING -Article/Report Writing,Notice Writing Invitation and reply Letter Writing/Application		



Shree Narayana Central School

Annual Syllabus - Class XII Science

Academic Sessions:2022-23



Subject :-		Physics
Month	Lessons/Chapters	Experiments / Activities /Projects
April	Chapter -1 Electric charges and fields	Experiment - 1 To determine resistivity of two wires by plotting a graph for potential difference versus current.
May	Chapter -2 Electrostatic Potential and Capacitance	
June	* Chapter -2 Electrostatic Potential and Capacitance Chapter -3 Current Electricity	Experiment -2 To find resistance of a given wire / Standard resistor using meter bridge. Experiment -3 To verify the laws of combination of resistance using a meter bridge.
Unit Test -1 Syllabus		
	Chapter -1 Electric Charges and fields Chapter -2 Electrostatic Potential and Capacitance	
July	Chapter -4 Moving charges and magnetism Chapter -5 Magnetism and matter	Experiment -4 To determine resistance of a galvanometer by half - deflection method and to find its figure of merit. Experiment - 5 Optics Experiment 1 Experiment - 6 Optics Experiment 2
August	Chapter -6 Electromagnetic Induction Chapter - 7 Alternating Current	Experiment - 7 Optics Experiment 3 Experiment -8 To draw the I - V characteristics curve for a p-n junction diode in forward and reverse bias.
September	* Chapter -7 Alternating Current	Section - A activity 1
Half Yearly Syllabus		
	Chapter -1 Electric Charges and fields Chapter -2 Electrostatic Potential and capacitance Chapter -3 Current Electricity Chapter -4 Moving charges and magnetism Chapter -5 Magnetism and matter Chapter -6 Electromagnetic Induction	

October	Chapter -8 Electromagnetic Waves Chapter - 9 Ray Optics	Section - A Activity 2 Section - A Activity 3
November	* Chapter 9 Ray Optics Chapter - 10 Wave Optics Chapter - 11 Dual Nature of Radiation and Matter	Section - B Activity -1 Section - B Activity -2 Section - B Activity - 3
December	Chapter -12 Atoms Chapter - 13 Nuclei	
Pre- Board - 1 Syllabus		
	Chapter -1 Electric Charges and fields Chapter -2 Electrostatic Potential and Capacitance Chapter -3 Current Electricity Chapter -4 Moving charges and magnetism Chapter -5 Magnetism and matter Chapter -6 Electromagnetic Induction Chapter - 7 Alternating Current Chapter -8 Electromagnetic Waves Chapter - 9 Ray Optics and Optical instruments Chapter -10 Wave Optics Chapter -11 Dual Nature of Radiation and Matter	
January	Chapter -14 Semiconductor Electronics , Materials , Devices and Simple Circuits	
February	Board Practical Examination and Revision	
Pre-Board 2 Syllabus		
	As per CBSE 2022-23 Syllabus	



Shree Narayana Central School
Annual Syllabus-Class XII Sci-Academic Sessions:2022-23



Subject :- Chemistry		
Month	Lessons/Chapters	Activities/Practicals/Projects
April	2. Solutions 3. Electrochemistry	1. Determination of concentration/ molarity of KMnO ₄ solution by titrating it against a standard solution of: (i) Ferrous ammonium sulphate, (ii) Oxalic acid
May		Summer Vacation
June	3. Electrochemistry (contd) 4. Chemical Kinetics	Chemical Kinetics, Preparation of Inorganic Compounds Preparation of Organic Compounds, Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given foodstuffs
UT-1 Syllabus		
	2. Solutions	3. Electrochemistry, 4. Chemical Kinetics
July	10. Haloalkanes and Haloarenes 11. Alcohols, Phenols and Ethers	Surface Chemistry, Preparation of one lyophilic and one lyophobic sol Chromatography, Thermochemistry
August	12. Aldehydes, ketones and Carboxylic acids	Tests for the functional groups present in organic compounds: Investigatory Project
September	13. Amines	3. Salt analysis-Determination of one cation and anion in the given salt
Half Yearly Syllabus		
	2. Solutions 3. Electrochemistry, 4. Chemical Kinetics	10. Haloalkanes and haloarenes 11. Alcohols, Phenols and Ethers 12. Aldehydes, ketones and Carboxylic acids
Subject :- Chemistry		
Month	Lessons/Chapter	Activities/Practicals/Projects
October	14. Biomolecules	3. Salt analysis-Determination of one cation and anion in the given salt
November	8. d and f block elements	
December	9. Coordination compounds	
Practice Test		
	2. Solutions 3. Electrochemistry, 4. Chemical Kinetics	10. Haloalkanes and haloarenes, 11. Alcohols, Phenols and Ethers 12. Aldehydes, ketones and Carboxylic acids, 13. Amines 14. Biomolecules 8. d and f block elements
January	Revision	
February	Revision	
Preboard		
	Full syllabus as given by CBSE for 2022-23	



Shree Narayana Central School
Annual Syllabus-Class XII Sci-Academic Sessions:2022-23



Subject :- Mathematics

Month	Lessons/Chapters	Activities/Practicals
April	2. Inverse Trigonometric Functions, 3. Matrices	To draw a graph of inverse of $\sin x$ and demonstrate the concept of mirror reflection.
May	Summer Vacation	
June	4. Determinants, 1. Relations & Functions	To Demonstrate a function which is not one-one but is onto
PA-1 Syllabus		
	1. Relations and Functions. 2. Inverse Trigonometric Functions	3. Matrices, 4. Determinants
July	5. Continuity & Differentiability	To find analytically the limit of function $f(x)$ at $x = c$ and also to check availability of function at that point.
August	6. Applications of Derivatives, 7. Integrals	To Verify that among all the rectangles of the same perimeter, the square has the minimum area
September	7. Integrals	
Half Yearly Syllabus		
	1. Relations & Functions, 2. Inverse Trigonometric Functions, 3. Matrices	4. Determinants, 5. Continuity & Differentiability 6. Applications of Derivatives

Subject :- Mathematics

Month	Lessons/Chapters	Activities/Practicals
October	8. Applications of Integrals, 9. Differential Equations	To evaluate the definite integral as the limit of a sum, verify it by actual integration.
November	10. Vectors, 11. Three Dimensional Geometry	
December	12. Linear Programming, 13. Probability	To verify geometrically that $c^*(a + b) = c^*a + c^*b$. To explain the computation of condition probability of a given event A when event B has already occurred, through an example of throwing a dice (pair of dice).
PA-2 Syllabus		
	7. Integrals 8. Applications of Integrals 9. Differential Equations	
January	Revision	
February	Revision	
Annual Exam Syllabus		
	Full syllabus as given by CBSE for 2022-23	



Shree Narayana Central School

Annual Syllabus-*Class XII Sci*

Academic Sessions:2022-23



Subject :- **Biology**

Month	Lessons/Chapters	Activities/Practicals/Projects
April	Chapter-2: Sexual Reproduction in Flowering Plants Chapter-3: Human Reproduction,Chapter-4: Reproductive Health	1. Prepare a temporary mount to observe pollen grain germination.2. Pollen germination on stigma through permanent slide.
May		
June	Chapter-5: Principles of Inheritance and Variation	3. Flowers adapted to pollination by different agencies.4. Controlled pollination - emasculation, tagging and bagging.5. Identification of stages of gamete development, T. S. of testis and ovary.
Unit Test-1 Syllabus:		
	Chapters- 2, 3, 4	
July	Chapter-6: Molecular Basis of Inheritance Chapter-7: Evolution	6. Mendelian inheritance using seeds of different colours/ sizes of any plant. 7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness, 8. T. S. of blastula through permanent slides.
August	Chapter-8: Human Health and Diseases Chapter-10: Microbes in Human Welfare	9. Prepare a temporary mount of onion root tip to study mitosis,10. Meiosis in onion bud cell or grasshopper testis through permanent slides.
September	Chapter-11: Biotechnology - Principles and Processes	11. Study the plant population density by quadrat method,12. Study the plant population frequency by quadrat method.
Half Yearly Syllabus		
	Chapter-2, 3, 4, 5, 6, 7, 8	

Subject :- **Biology**

Month	Lessons/Chapter	Activities/Practicals/Projects
October	Chapter-12: Biotechnology and its Applications Chapter-13: Organisms and Populations	13. Isolate DNA from available plant material such as spinach, green pea seeds, papaya etc. 14. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on the symptoms of diseases that they cause.
November	Chapter-14: Ecosystem	15. Models specimen showing symbiotic association in root nodules of leguminous plants, cuscuta on host, lichens,16. Flash card models showing examples of homologous and analogous organs.
December	Chapter-15: Biodiversity and Conservation	
January	Revision	
February	Revision	
Annual Exam Syllabus		
	Chapters-2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15	



Shree Narayana Central School

Annual Syllabus-Class XII Sci-Academic Sessions:2022-23



Subject : Computer Science		
Month	Lessons/Chapters	Activities/Practicals/Projects
April	Ch-1 Revision of Python Basics,Introduction to Python,Structure of a Python Program, Variables and Data types ,Keywords, Mutable and immutable types, Operators and operands, Input and output python's built in functions,	Practical Assissgnment
May	Summer Vacation	
June	Ch-1 Revision of Python Basics,Flow of Exceution,Strings and lists,tuples,dictionary and sorting techniques, Ch-2 Function-Introduction to Functions	Practical Assissgnment
UT-1 Syllabus		
	Ch-1 Revision of Python Basics	
July	Ch-2 Functions-Built in functions in Python,Modules in Pythones and user defined functions,How functions return a vaule,passing arguments like list,strings,tuple,dictionary	Practical Assissgnment
August	Ch-2 Functions-Scope of variable,using main function,Recursion	Practical Assissgnment,Practical File (Assissgnment) (15 Programs)
September	Ch-3 Data file handling,Introduction to file handling Opening and closing files,reading files,writing in files appending in files,Binary files reading and writing.CSV files reading and writing	Practical Assissgnment,Practical File (Assissgnment) (7 Programs) Project Finalization-Topic and documentation
Half YearlySyllabus		
	Ch-1 Revision of Python Basics,Ch-2 Functions,Ch-3 Data File Handling (Half)	
Subject : Computer Science		
Month	Lessons/Chapters	Activities/Practicals/Projects
October	Ch-5 Program efficiency,Algorithm Analysis,Program effceny on basis of time and number of operations,Ch-6 Data structure,Introduction to data structure	Practical Assissgnment,(Project Coding)
November	Ch-6 Data Structure-Implementation of stack push and pop operation Ch-7 Computer networks,Advantages of network,disadvantages of network Switching techniques, network devices, Toplogies, Communicate media, Network termologies	Practical Assissgnment
December	Ch-8 Relational Database and SQL,Introduction to relational database,advantages and disadvantages sql commands and sql functions	Practical Assissgnment
UT-2 Syllabus		
	Ch-4 Data file handling (remaining),Ch-5 Program efficiency Ch-6 Data Structure,Ch-7 Computer Networks	
January	ch-9 Interface Python with SQL,MySQL connectivity with python interface ,operation on tables	Practical Assissgnment
February	Term-II Syllabus for Board Practice,Ch-5 to Ch-9 (Paper Solving)	(Paper Solving)
Annual Exam Syllabus		
	Full syllabus as given by CBSE for 2022-23	



Shree Narayana Central School-Annual Syllabus-Class XII Sci

Academic Sessions:2022-23



Subject :- Physical Education

Month	Lessons/Chapters	Activities/Practicals/Projects
April	chapter 3 Yoga as preventive measure for lifestyle Disease	Physical education Record file prepare Topic 1
May	chapter 6 Test & Measurement in Sports	Physical education Record file prepare Topic 1
June	Chapter 2 Children and Women in Sports	Physical education Record file prepare Topic 2
	PA-1 Syllabus : chapter : 3&6	
July	chapter 4 Physical education & sports for CWSN	Practical Demonstration Test 1 & Yoga Asanas practice
August	chapter 5 Sports & Nutrition	Practical Demonstration Test 1 & Yoga Asanas practice
September	Chapter 7 Physiology & Injuries in Sports	Game Skills Practice & Record file Prepration Topic 3
	Half YearlySyllabus : Chapter : 3,6,2,4 & 5	
October	Chapter 8 Biomechanics & Sports	Game Skill practice and yoga asanas practice
November	Chapter 9 Psychology & Sports	Record file Prepration Topic 4
December	Chapter 10 Training in Sports	Practical Demonstration
	PA-2 Syllabus : chapter : 7&8	
January	Chapter 1 Management of Sporting events	Practical Demonstration
February	Revision	practical
Annual exam Syllabus		
	Full syllabus as given by CBSE for 2022-23	