

SANT NANDLAL SMRITI VIDYA MANDIR, GHATSILA

SYLLABUS - STD XI SCIENCE

SESSION 2026-27

SUBJECT – COMPUTER SCIENCE



Month	No of Working Days	Topic to be Taught	Activities	Learning Outcomes	Values & Skills Imparted	Assessment
April	23	Number System, Computer System Organisation	Number System	Students learn about the computer architecture	Studying the number system enables the student to do mathematics; calculate, solve equations and represent measurements.	Exercise of Ch-2 & Ch-1
		Number System, Computer System Organisation	Number System			Exercise of Ch-2 & Ch-1
		Number System, Computer System Organisation	Number System			Exercise of Ch-2 & Ch-1
		Number System, Computer System Organisation	Number System			Exercise of Ch-2 & Ch-1
May	8	Computer Software and Operating System & Computing and Ethics and Getting Started with Python	Problem Solving on Fundamental of Computer	Students learn about software and hardware and also laws of cyber ethics	Computers help the students to learn about the world and know what is happening in it. It helps them to aim for excellent jobs in the future and succeed in it.	Exercise of Ch-1 & Ch-3
		Computer Software and Operating System & Computing and Ethics and Getting Started with Python	Problem Solving on Fundamental of Computer			Exercise of Ch-1 & Ch-3
June	11	Computer Software and Operating System & Computing and Ethics and Getting Started with Python	Problem Solving on Software Concepts			Exercise of Ch-1 & Ch-3
		Computer Software and Operating System & Computing and Ethics and Getting Started with Python	Problem Solving on Software Concepts			Exercise of Ch-1 & Ch-3
July	26	Python Programming Fundamental, Computer Software and Operating System & Computing and Ethics	Problem Solving on Software Concepts and Programming		Python gives the ability to automate trivial stuff, and let you focus on more exciting and useful things. Python experience	Exercise of Ch-1 & Ch-4

					allows you to do a lot more than R e.g. you can create scripts to go into web development and so much more than go into Deep Learning, Deep Machine Learning with Python.	
		Python Programming Fundamental, Microprocessor, Conditional and Looping Constructs	Programming in Python	Students learn about the programming feature and concept		Exercise of Ch-1 & Ch-5
		Python Programming Fundamental, Microprocessor, Conditional and Looping Constructs	Programming in Python			Exercise of Ch-1 & Ch-5
		1 st Pre Term Test	Programming in Python			
August	23	Input/Output in Python, Flowcharts	Programming in Python	Students learn about the programming feature and concept	Students develop their skills on the working of computer programming and connecting with real world application.	Exercise of Ch-2, Ch-4 & Ch-5
		Input/Output in Python, Flowcharts	Programming in Python		Values- Dignity, truthfulness, fairness & Responsibility.	Exercise of Ch-2, Ch-4 & Ch-5
		Input/Output in Python, Flowcharts	Programming in Python			Exercise of Ch-2, Ch-4 & Ch-5
		Operators and Expressions in Python	Programming in Python	Students learn about the programming feature and concept		Exercise of Ch-2, Ch-4 & Ch-5
September	23	Operators and Expressions in Python	Programming in Python		Students develop their skills on the working of computer programming	Exercise of Ch-2, Ch-4 & Ch-5
		Operators and Expressions in Python	Programming in Python and Problem	Students learn about the programming		Exercise of Ch-2, Ch-4 & Ch-5

			Solving in Python	feature and concept		
		Half Yearly Exam	Programming in Python			
		Half Yearly Exam	Programming in Python			
October	16	Conditional and looping Constructs, String in Python and Society, Law and Ethics	Programming in Python and Problem Solving on Cyber, Society and Law		Students develop their skills on the working of computer programming	Exercise of Ch- 5, Ch-6 & Ch-10
		Conditional and looping Constructs, String in Python and Society, Law and Ethics	Programming in Python and Problem Solving on Cyber, Society and Law		Values- Dignity, truthfulness, fairness & Responsibility.	Exercise of Ch- 5, Ch-6 & Ch-10
		Conditional and looping Constructs, String in Python and Society, Law and Ethics	Programming in Python and Problem Solving on Cyber, Society and Law			Exercise of Ch- 5, Ch-6 & Ch-10
November	19	String in Python, List in Python, Cyber Safety, Boolean Logic	Programming in Python and Problem Solving on Boolean Logic	Students learn about the programming feature and concept		Exercise of Ch- 2, Ch-7 & Ch-11
		Revision & Test	Programming in Python and Problem Solving on Boolean Logic			
		List in Python, Boolean Logic, Cyber Safety	Programming in Python, Problem Solving on Cyber, Society and Law and Problem Solving on Boolean Logic		Students develop their skills on the working of computer programming, circuit design and logical proof.	Exercise of Ch- 2, Ch-7 & Ch-11
		List in Python, Boolean Logic, Cyber Safety	Programming in Python, Problem Solving on Cyber, Society and Law and Problem Solving on Boolean Logic		Values- Dignity, truthfulness, fairness & Responsibility.	Exercise of Ch- 2, Ch-7 & Ch-11
December	19	Tuples and Dictionary in Python, Boolean Logic	Programming in Python and Problem Solving on Boolean Logic	Students learn about the programming feature and concept	Students will develop their skills on python's rich set of operators, function and methods for	Exercise of Ch-2 & Ch-8
		Tuples and Dictionary in Python, Boolean Logic	Programming in Python and			Exercise of Ch-2 & Ch-8

			Problem Solving on Boolean Logic		working with strings. They will develop how to access and extract portions of strings and also be familiar with the methods to manipulate and modify string data.	
		Tuples and Dictionary in Python, Boolean Logic	Programming in Python and Problem Solving on Boolean Logic			Exercise of Ch-2 & Ch-8
January	20	Introduction to Python Modules, Functions	Programming in Python	Students learn about the programming feature and concept	Values- Dignity, truthfulness, fairness & Responsibility.	Exercise of Ch-9
		Introduction to Python Modules, Functions	Programming in Python			Exercise of Ch-9
		Introduction to Python Modules, Functions	Programming in Python			Exercise of Ch-9
		Revision	Revision			
February	23	Revision	Revision			
		Revision	Revision			
		Revision	Revision			
		Revision	Revision			