

N. C. JINDAL PUBLIC SCHOOL,PUNJABI BAGH, NEW DELHI

ANNUAL CURRICULUM (2024-25)

CLASS:XI	SUBJECT:Computer Science		SUBJECT TEACHER: Vijay Lakshmi Gupta		DESIG: PGT -Computer Science		
Syllabus Topic	Academic Book	Chapter	Chapter Topic	Term	Start Date	End Date	No. of Periods
	Computer Sc. With Python by preeti Arora	<b>Computer System &amp; Organisation</b>	Intoduction	I	1-7-2024	3-7-2024	2
			Basic Components of a computer System	I			
			Software Concepts	I			
			Concept of Operating System	I			
		<b>Getting started with Python</b>	Introduction &Features of Python	I	4-7-2024	7-7-2024	4
		<b>Python Programming Fundamentals</b>			10-7-2024	15-7-2024	6
			Introduction	I			
			Variables and Types	I			
			Keywords	I			
			Expressions	I			
			Operators	I			
			User Input	I			
			User defined Functions	I			
			Indentation In python	I			
			Tokens	I			
			Comments	I			
		<b>Conditional and Looping Constructs</b>			17-07-2024	04-08-2024	15
			Introduction	I			
			Decision Making	I			
			Iterations	I			
			Nested Loops	I			
			Jump Statements	I			
		<b>Data Representation &amp; Boolean Logic</b>			5-8-2024	25-8-2024	15
			Introduction	I			
			Number System	I			
			Boolean Logic	I			
			Boolean Operators, Truth table, Logic Gates	I			
			Demorgans Theoram	I			
		<b>REVISION</b>			27-8-2024	11-9-2024	12
		<b>Strings in Python</b>	Introduction	II	3-10-2024	19-10-2024	13
			Special String Operators	II			
			Strings Are Immutable	II			
			Strings Methods & Built-In Functions	II			
		<b>List in Python</b>	Introduction	II	25-10-2024	24-11-2024	20
			List	II			
			Operations on List	II			

			Built- In Functions	II			
			Deletion Operator	II			
			Sorting	II			
		<b>Tuples and Dictionary</b>	Introduction	II	28-11-2024	22-12-2024	17
			Tuples	II			
			Tuple Creation	II			
			Nesting Of Tuples	II			
			Accessing And Treversing a Tuple	II			
			Common Tuple Operations	II			
			Comparing Tuples	II			
			Dictionary in Python	II			
			Create, Traversing, Append, Update, Remove Item from a Dictionary	II			
			IN & Not In membership Operator	II			
			Common Dictionary Functions and Methods	II			
		<b>Introduction to Python modules</b>	Importing module using 'import <module>' and using from statement	II	26-12-2024	30-12-2024	5
			Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange)				
			statistics module (mean, median, mode)				
		<b>Society, Law and Ethics</b>	Introduction	II	16-1-2024	25-1-2024	9
			• Digital Footprints	II			
			• Digital society and Netizen: net etiquettes, communication etiquettes, social media etiquettes	II			
			• Data protection: Intellectual Property Right (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source softwares and licensing (Creative Commons, GPL and Apache)	II			

			<ul style="list-style-type: none"> <li>• Cyber-crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, preventing cyber crime</li> </ul>	II			
			<ul style="list-style-type: none"> <li>• Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying.</li> </ul>	II			
			<ul style="list-style-type: none"> <li>• Safely accessing web sites: malware, viruses, trojans, adware</li> </ul>	II			
			<ul style="list-style-type: none"> <li>• E-waste management: proper disposal of used electronic gadgets</li> </ul>	II			
			<ul style="list-style-type: none"> <li>• Indian Information Technology Act (IT Act)</li> </ul>	II			
			<ul style="list-style-type: none"> <li>• Technology &amp; Society: Gender and disability issues while teaching and using computers</li> </ul>	II			
		<b>Project Work</b>		II	29-1-2025	5-2-2025	6
		<b>Revision</b>		II	06-02-2025	12-02-2025	6