



# N.C. JINDAL PUBLIC SCHOOL

Road No.-73, PUNJABI BAGH (W), NEW DELHI-110026

## ANNUAL CURRICULUM (2026-27)

CLASS: XII	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>Review of Python Basics</b>	Intoduction	I	1-4-2026	4-4-2026	3
			Structure of Python Program	I	}		
			Flow of Control	I			
			Strings	I			
			Lists	I			
			Tuple	I			
			Dictionary	I			
		<b>Functions/</b>	Introduction	I	6-4-2026	6-4-2026	1
		<b>Python Libraies</b>	User defined Functions	I	7-4-2026	8-4-2026	2
			parameters and Arguments	I	09-04-2026	16-4-2026	5
			Scope of variables	I	16-04-2026	18-04-2026	3
			Built- In Functions	I	15-04-2026	16-04-2026	2
			Module in Python	I	17-04-2026	21-04-2026	4
			Standard Python librares	I	22-04-2026	23-04-2026	2
			Flow of Execution	I	24-04-2026	28-04-2026	3
		<b>Data File handling</b>	Introduction	I	29-4-2026	29-4-2026	1
			Datafile operations	I	30-04-2026	30-04-2026	1
			<b>Text file operations</b>	I	01-05-2026	01-05-2026	1
			Open and Close	I	02-05-2026	02-05-2026	1
			Reading from a text File	I	04-05-2026	04-05-2026	1
			Writing and Appending to a Text File	I	05-05-2026	05-05-2026	1
			<b>Binary file operations</b>	I	06-05-2026	06-05-2026	1
			Open and Close	I	07-05-2026	07-05-2026	1
			Reading from a Binary File	I	08-05-2026	08-05-2026	1
			Writing and Appending to a Binary File	I	11-05-2026	11-05-2026	1
			<b>CSV file operations</b>	I	12-05-2026	12-05-2026	1
			Open and Close	I	13-05-2026	13-05-2026	1
			Reading from a CSV File	I	14-05-2026	14-05-2026	1
			Writing and Appending to a CSV File	I	15-05-2026	15-05-2026	1

			Recapitulation:File Handling		17-05-2026	17-05-2026	1
		<b>Database Management</b>	Introduction to Database concepts and its need		01-07-2026	02-07-2026	1
			<b>Relational data model</b>		03-07-2026	03-07-2026	1
			Relation, Tuple, Attribute, Domain, Degree, Cardinality		06-07-2026	06-07-2026	1
		<b>Structured Query Language</b>	Introduction, DDL, DML		07-07-2026	07-07-2026	1
			<b>DDL Commands</b> Create Drop Alter		08-07-2026	10-07-2026	3
			<b>DML Commands</b> Insert Delete Update Select		13-07-2026	14-07-2026	2
		<b>SQL Operators</b>	Arithmetic Relational Logical Special		15-7-2026	17-7-2026	3
			<b>Aggregate Function</b> MAX() MIN() SUM() AVG() COUNT()		18-7-2026	18-7-2026	1
			Group BY and Having Clause		20-7-2026	21-7-2026	2
			<b>SQL JOINS</b> 1. Cartesian Product 2. Equi Join 3. Natural Join		22-7-2026	24-7-2026	3
		<b>Interface Python with SQL</b>	Introduction Establishing Connection		27-7-2026	28-7-2026	2
			Manage SQL database transaction in Python		29-7-2026	30-7-2026	2
			Read Operations		31-7-2026	1-8-2026	2
		<b>Computer Networks</b>	Introduction		3-8-2026	3-8-2026	1
			Advantages and Disadvantage		4-8-2026	4-8-2026	1
			Components of Data Communication		5-8-2026	5-8-2026	1
			<b>Switching Techniques</b> Circuit Switching Packet Switching		6-8-2026	7-8-2026	2
			<b>Transmission media</b> Wired communication media Wireless media		10-8-2026	11-8-2026	2

			<b>Network Devices:</b> Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card	I	12-8-2026	13-8-2026	2
			<b>Types of Networks</b> PAN LAN MAN WAN	I	14-8-2026	14-8-2026	1
			<b>Networking Topologies</b> Mesh ,Star,Bus,Ring,Tree	I	17-8-2026	18-8-2026	2
			Modulation	I	19-8-2026	22-8-2026	3
			<b>PROTOCOLS:</b> HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP	I	24-8-2026	29-8-2026	5
			Web Services	I			
			WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting	I			
		<b>Revision:</b>			31-8-2026	10-9-2026	12
		<b>Data Structure in Python</b>	Introduction:Stack	II	1-10-2026	3-10-2026	2
			Creating Stack	II	5-10-2026	9-10-2026	5
			Checking the status of stack -	II	12-10-2026	17-10-2026	5
			Operations on Stack:Push,POP				
			Programs on Stack	II	21-10-2026	29-10-2026	6
		<b>Project Work &amp; Revision</b>		II	2-11-2026	4-12-2026	25



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<b>Periodic Test Schedule( 2026-27)</b>		
<b>CLASS: XII</b>		
<b>SUBJECT: Computer Science</b>		
<b>S. No.</b>	<b>Chapter/Topic</b>	<b>Max. Marks-20</b>
<b>PT-1</b>	REVIEW OF PYTHON	5
	FUNCTIONS	15
<b>PT-2</b>	FILE HANDLING	15
	MY SQL	5
<b>PT-3</b>	MY SQL	15
	NETWORKING	5



# **N.C. JINDAL PUBLIC SCHOOL**

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HALF YEARLY EXAM Marking Scheme: 2026-27

<b>CLASS:XII</b>		<b>SUBJECT:Computer Science</b>	
<b>Sl. No.</b>	<b>Chapter/Topic</b>	<b>Max. Marks</b>	
1	Review of Python basics	10	
2	Functions	20	
4	Data File handling	20	
6	MySql	20	
	Total (Theory)	70	
	Total (Practical)	30	
	Total	100	



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**PREBOARD EXAM Marking Scheme: 2026-27**

<b>CLASS: XII</b>		<b>SUBJECT:Computer Science</b>	
<b>Sl. No.</b>	<b>Chapter/Topic</b>	<b>Max. Marks</b>	
1	Programming and Computational Thinking-2	40	
2	Computer Networks	10	
3	Database Management System	20	
	Total(Theory)	70	
	Total(Practical)	30	
	Total	100	