

**O. P. JINDAL SCHOOL, SAVITRI NAGAR, TAMNAR**  
**Annual Syllabus Break-up for the session 2025-2026**

**Subject: Informatics Practices    Class: XII**

Sl.	Month	No. of Instructional days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
1	April	23	23	Unit 2: Database query using SQL	<p>Prepare a list and charts of all the functions according to their categories.</p> <p>Prepare Power point presentation on above topic.</p>	MySQL, SQL revision tour, functions, querying using SQL, Aggregate functions etc.	Database Management Techniques using MySQL

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2	June	09	09	Unit 2: Database query using SQL	<p>Prepare a list and charts of all the functions according to their categories.</p>	MySQL, SQL revision tour, functions, querying using SQL, Aggregate functions etc.	Database Management Techniques using MySQL

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3	July	26	26	Unit 3: Introduction to Computer Networks.  Unit 4: Society, Law and Ethics	<p>Create a team of students : for creating a network design to connect different Labs , Offices in the school.</p> <p>Make a list of websites by categorizing them in static and dynamic categories.</p> <p>Make a list of usable add-ons, plugins and extensions in education domain for different browsers.</p> <p>Divide students in group to make a video by each group on different topics of the unit like – different types of cyber crime, netiquette, plagiarism etc.</p>	<p>Network devices, topologies, website, web browsers, internet and web services etc.</p> <p>Digital footprints, Intellectual property rights, plagiarism, digital rights management etc.</p> <p>Privacy laws, fraud; cybercrime etc. Technology and society etc.</p>	<p>Thin Client Server Network etc.</p> <p>Cyber Security Techniques</p>

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4	August	23	23	Unit 4: Society, Law and Ethics	Divide students in group to make a video by each group on different topics of the unit like – different types of cyber crime, netiquette, plagiarism etc.	E-waste management etc. Identity theft, unique ids, and biometrics etc. Gender and disability issues while teaching and using computers etc. Issues with the internet: internet as an echo chamber, net neutrality, internet addiction etc. Case studies - Arab Spring, WikiLeaks, Bit coin etc.	Cyber Security Techniques

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5	September	09	09	Unit 1: Data Handling (Pandas-I)  <b>Revision and Assessment</b>  <b>Half Yearly Examination</b>	How create a Pandas Series.  Make a charts to represent the main benefits of Pandas.	Python Pandas, Advanced operations on Data Frames etc. Create a histogram, and quantiles etc. Function application etc. Numpy 1D array, 2D array	Different functions / methods of create dictionary and lists.
						Arrays: slices, joins, and subsets etc.	

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6	October	17	17	Unit 1: Data Handling and Data Visualization (Pandas-2)	Make a charts to represent the tips for Data Visualization Design in Pandas.	Arithmetic operations on 2D arrays Covariance, correlation and linear regression Plotting with Pyplot Plot bar graphs, histograms, frequency polygons, box plots, and scatter plots etc.	Different functions / methods of plotting data in Python Plot
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7	November	21	21	Revision / Assessment	Revision / Assessment	Revision / Assessment	Revision / Assessment
Sl.	Month	No. of Instructional days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
8	December	13	13	Revision / Assessment /Preboard Examination  Project, Practical and Revision		Revision / Assessment / Preboard Examination  Project, Practical and Revision	

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9	January	25	25	Revision / Assessment /Preboard Examination  Project, Practical and Revision		Revision / Assessment / Preboard Examination  Project, Practical and Revision	

Sl.	Month	No. of Instructional days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
10	February	07	07	Annual Examination		Annual Examination	

**SYLLABUS FOR EXAMINATION**

SN	EXAMINATION	EXAMINATION'S MONTHS	MAX MARKS	Max Time	SYLLABUS FOR EXAMINATION
1	Weekly Test-1	July	20	1 Hr	Unit 2: Database query using SQL
	Weekly Test-2	August	20	1 Hr	Unit 3: Introduction toComputer Networks.
2	Half Yearly Examination	September	70	3 Hrs	Unit 2: Database query using SQL Unit 3: Introduction toComputer Networks. Unit 4: Society, Law andEthics Unit 1: Data Handling(Pandas-I)
3	Weekly Test-1	November	20	1 Hr	Unit 1: Data Handling and
	Weekly Test-2	January	20	1 Hr	Data Visualization (Pandas-2)
4	Board Examination	February	70	3 Hrs	Complete Syllabus