

**O. P. JINDAL SCHOOL, SAVITRINAGAR, TAMNAR**  
**Annual Syllabus Break-up for the session 2024-2025**

**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	21	17	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>	<p>MySQL, SQL revision tour, functions, querying using SQL, Aggregate functions etc.</p>	<p>Database Management Techniques using MySQL</p>

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
2	June	11	09	Unit 2: Database query using SQL	<p>Prepare a list and charts of all the functions according to their categories.</p>	<p>MySQL, SQL revision tour, functions, querying using SQL, Aggregate functions etc.</p>	<p>Database Management Techniques using MySQL</p>

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
3	July	23	20	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>

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
4	August	23	20	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

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
5	September	12	08	Unit 1: Data Handling (Pandas-I)  Revision and Assessment  Half Yearly Examination	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.	

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
6	October	20	14	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
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
7	November	13	07	Unit 1: Data Handling and Data Visualization (Pandas-2)	Make a charts to represent the power of 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
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	19	15	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
9	January	22	14	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	15	06	Annual Examination		Annual Examination	

**SYLLABUS FOR EXAMINATION**

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