



**BLOOM PUBLIC SCHOOL**  
**C-8 Vasant Kunj, New Delhi**  
**Syllabus for the Session 2025-26**

**Class: IX**

**Subject: Data Science**

<b>SYLLABUS</b>			
<b>MONTH</b>	<b>CHAPTER ( NCERT Text book)</b>	<b>CONTENT (Topics)</b>	<b>Practical/Activities</b>
<b>April</b>	Unit 1: Communication Skills I	Introduction to Communication Verbal Communication, Non-Verbal Communication, Writing Skills: Parts of Speech, Writing Skills: Sentences,	<ul style="list-style-type: none"> <li>Project on Popular dog breed</li> <li>Writing pros and cons of written, verbal and nonverbal communication.</li> <li>Listing do's and don'ts for avoiding common body language mistakes.</li> </ul>
	<b>(Subject Specific)</b> Unit 1: Introduction to Data Science	What is data? Data vs Information DIKW model How does data influence our lives?	
<b>May</b>	Unit 1: Communication Skills I	Pronunciation Basics, Greetings and Introduction, Talking about Self, Asking Questions	<ul style="list-style-type: none"> <li>Project on Popular dog breed</li> <li>Draw a diagram of communication cycle</li> </ul>
	<b>(Subject Specific)</b> Unit 1: Introduction to Data Science	What are data footprints? Data loss and recovery	
<b>July</b>	Unit 2: Self-Management Skills-I	Introduction to Self-management, Strength and Weakness Analysis. Self-confidence, Positive Thinking, Personal Hygiene, Grooming	<ul style="list-style-type: none"> <li>A Bar graph or dot plot using your classmates' personal information.</li> <li>Role play exercises on building self confidence</li> </ul>
	<b>(Subject Specific)</b> Unit 2: Arranging and collecting data	What is data collection? What are variables? What are the different types of data? What are data sources?	

<p><b>August</b></p>	<p>Unit 3: ICT Skills-I</p> <p><b>(Subject Specific)</b> Unit 2: Arranging and collecting data</p>	<p>Introduction to ICT, ICT Tools: Smartphones and Tablets, Parts of Computer and Peripherals, Basic Computer Operations</p> <p>What is big data? Asking questions on data? Univariate vs multivariate</p>	<ul style="list-style-type: none"> <li>• A Bar graph or dot plot using your classmates' personal information.</li> <li>• Preparing posters / collages for showing the role of ICT at workplace</li> </ul>
<p><b>September</b></p>	<p>Unit 3: ICT Skills-I</p>	<p>Performing Basic File Operations, Communication and Networking, Basics of Internet, Communication and Networking</p>	<ul style="list-style-type: none"> <li>• Preparing posters / collages for showing the role of ICT at workplace</li> </ul>
<p><b>October</b></p>	<p><b>(Subject Specific)</b> Unit 3: Data Visualizations – Part 1</p> <p><b>Employability Skills</b> Unit 4: Entrepreneurial Skills-I</p>	<p>The importance of visualization Plotting data Histograms Use of shapes Use of single and multivariable plots</p> <p>What is Entrepreneurship? Role of Entrepreneurship, Qualities of a Successful Entrepreneur, Distinguishing Characteristics of Entrepreneurship and Wage Employment</p>	<ul style="list-style-type: none"> <li>• Represent the data using various plots.</li> <li>• Presentations by entrepreneurs on their experiences and success stories</li> </ul>
<p><b>November</b></p>	<p><b>(Subject Specific)</b> Unit 4: Ethics in Data Science</p> <p><b>Employability Skills</b> Unit 4: Entrepreneurial Skills-I</p>	<p>Ethical guidelines around data analysis Need for ethical guidelines in data analysis Goals of ethical guidelines in data analysis Data governance framework Why do we need to govern data? Goals of data governance</p> <p>Types of Business Activities, Product, Service and Hybrid Businesses, Entrepreneurship Development Process</p>	<ul style="list-style-type: none"> <li>• Discussion on the precautions you need to take before handing out your details.</li> <li>• Presentations by entrepreneurs on their experiences and success stories</li> </ul>

<b>December</b>	<b>(Subject Specific)</b> Unit 4: Ethics in Data Science  <b>Employability Skills</b> Unit 5: Green Skills-I	Ethical guidelines around data analysis Need for ethical guidelines in data analysis Goals of ethical guidelines in data analysis  Society and Environment, Conserving Natural Resources, Sustainable Development and Green Economy	• Discussion on the precautions you need to take before handing out your details. • Group discussion on hazards of deteriorating environment
<b>January</b>	Project		
<b>February</b>	Revision		
<b>March</b>	TERM-2 Exam		

### ASSESSMENT SYLLABUS

<b>PERIODIC ASSESSMENT -1</b>	<b>Subject specific skills:</b> Unit 1: Introduction to Data Science  <b>Employability Skills</b> Unit 1: Communication Skills
<b>PERIODIC ASSESSMENT -2</b>	<b>Subject specific Skills</b> Unit 3: Data Visualizations – Part 1  <b>Employability Skills-</b> Unit 3: ICT Skills
<b>MID TERM EXAM</b>	<b>Subject specific skills:</b> Unit 1: Introduction to Data Science Unit 2: Arranging and collecting data  <b>Employability Skills:</b> Unit 1: Communication Skills Unit 2: Self-Management Skills-I
<b>FINAL EXAMINATION</b>	<b>Subject specific skills:</b> Unit 1: Introduction Unit 2: Arranging And Collecting Data Unit 3: Data Visualizations – Part 1 Unit 4: Ethics in Data Science  <b>Employability Skills:</b> Unit 1: Communication Skills Unit 2: Self-Management Skills-I Unit 3: ICT Skills Unit 4: Entrepreneurial Skills-I Unit 5: Green Skills-I