



BLOOM PUBLIC SCHOOL
C-8 Vasant Kunj, New Delhi
Syllabus for the Session 2024-25

Class: X

Subject: Data Science

SYLLABUS			
MONTH	CHAPTER (NCERT Textbook)	CONTENT	Practical/Activities
April	Unit 1: Communication Skills I	Methods of Communication Verbal Communication Non-verbal Communication Communication Cycle and Writing Skills — Parts of Speech Writing Skills — Sentences	Listing do's and don'ts for avoiding common body language mistakes
	(Subject Specific) Unit 1: USE OF STATISTICS IN DATA SCIENCE	What are subsets and relative frequency? Meaning of mean What is median and its usage in data science? What does absolute deviation mean? What is Standard Deviation?	Calculate the average height and weight
May	Unit 2: Self-management Skills	Stress Management Self-awareness-Strength and Weakness Analysis Self-motivation Self-regulation — Goal Setting Self-regulation — Time Management	Discussion on the qualities required for Working independently
	(Subject Specific) Unit 2: DISTRIBUTION IN DATA SCIENCE	What is distribution in data science? Different types of continuous distribution Different types of discrete distribution Statistical Problem Solving Process Activity – Choosing groups for school dance program	Perform detailed analysis and interpret the result

July	Unit 3: Information and Communication Technology Skills (Subject Specific) Unit 3: IDENTIFYING PATTERNS	Basic Computer Operations Performing Basic File Operations Computer Care and Maintenance Computer Security and Privacy What is partiality, preference and prejudice and how to identify them? What is the Central Limit Theorem and its importance Probability for Statistics	Discussion of the procedures to be followed for cleaning, care and maintenance of hardware and software Calculating central limit theorem
August	Unit 4: Entrepreneurial Skills (Subject Specific) Unit 4: DATA MERGING	Entrepreneurship and Society Qualities and Functions of an Entrepreneur How to merge data sets? What is Z-Score - calculate, importance and interpretation What is Standard Deviation and what are different ways to calculate it?	Make a plan in team for setting up a business Calculate IQR and Z-score
September	Unit 4: Entrepreneurial Skills	Myths about Entrepreneurship Entrepreneurship as a Career Option	Make a plan in team for setting up a business
October	Employability Skills Unit 5: Green Skills (Subject Specific) Unit 5: ETHICS IN DATA SCIENCE	Sustainable Development Our Role in Sustainable Development Note about data governance framework Ethical guidelines around data analysis Discarding the Data	Identify the problem related to sustainable development in the community Discussion on the technique that you would use to discard the data
November	PRE BOARD EXAMINATION 1	Whole syllabus	-
December	PRE BOARD EXAMINATION 2	Whole syllabus	-
January	Revision/ BOARD PRACTICALS	Whole syllabus	-

February	BOARD EXAMINATION	Whole syllabus	-
March	BOARD EXAMINATION	Whole syllabus	-

ASSESSMENT SYLLABUS	
PERIODIC ASSESSMENT -1	<p>Subject specific skills: Unit 1: USE OF STATISTICS IN DATA SCIENCE</p> <p>Employability Skills Unit 1: Communication Skills</p>
PERIODIC ASSESSMENT -2	<p>Subject specific Skills Unit 1: USE OF STATISTICS IN DATA SCIENCE Unit 2: DISTRIBUTIONS IN DATA SCIENCE Unit 3:IDENTIFYING PATTERNS</p> <p>Employability Skills Unit 1: Communication Skills Unit 2: Self-Management Skills-I Unit 3: Information and Communication Technology Skills</p>
MID TERM EXAM	<p>Subject specific skills: Unit 1: USE OF STATISTICS IN DATA SCIENCE Unit 2: DISTRIBUTIONS IN DATA SCIENCE Unit 3:IDENTIFYING PATTERNS Unit 4:DATA MERGING</p> <p>Employability Skills: Unit 1: Communication Skills Unit 2: Self-Management Skills-I Unit 3: Information and Communication Technology Skills Unit 4: Entrepreneurial Skills</p>
PRE BOARD EXAMINATION 1	<p>Subject specific skills: Unit 1: USE OF STATISTICS IN DATA SCIENCE Unit 2: DISTRIBUTIONS IN DATA SCIENCE Unit 3:IDENTIFYING PATTERNS Unit 4:DATA MERGING Unit 5: ETHICS IN DATA SCIENCE</p> <p>Employability Skills: Unit 1: Communication Skills Unit 2: Self-Management Skills-I Unit 3: Information and Communication Technology Skills Unit 4: Entrepreneurial Skills Unit 5: Green Skills</p>

<p>PRE BOARD EXAMINATION 2</p>	<p>Subject specific skills: Unit 1: USE OF STATISTICS IN DATA SCIENCE Unit 2: DISTRIBUTIONS IN DATA SCIENCE Unit 3:IDENTIFYING PATTERNS Unit 4:DATA MERGING Unit 5: ETHICS IN DATA SCIENCE</p> <p>Employability Skills: Unit 1: Communication Skills Unit 2: Self-Management Skills-I Unit 3: Information and Communication Technology Skills Unit 4: Entrepreneurial Skills Unit 5: Green Skills</p>
<p>BOARD EXAMINATION</p>	<p>Subject specific skills: Unit 1: USE OF STATISTICS IN DATA SCIENCE Unit 2: DISTRIBUTIONS IN DATA SCIENCE Unit 3:IDENTIFYING PATTERNS Unit 4:DATA MERGING Unit 5: ETHICS IN DATA SCIENCE</p> <p>Employability Skills: Unit 1: Communication Skills Unit 2: Self-Management Skills-I Unit 3: Information and Communication Technology Skills Unit 4: Entrepreneurial Skills Unit 5: Green Skills</p>