DATA SCIENCE SESSION PLAN 2025-26 (STANDARD X)

MONTH	Emp. Skills UNITS	TOPICS COVERED	
		THEORY	PRACTICAL
Apr-25	Chapter 1: Use of Statistics in Data Science	Subsets, Two-way frequency tables, Mean, Median, Mean Absolute Deviation, Standard Deviation	Create a two-way table; Calculate and compare mean/median, Use real-life datasets to calculate MAD and SD
May-25	Chapter 1: Use of Statistics in Data Science /Emp. Skills UNIT 1: COMMUNICATION SKILLS – II	Standard Deviation # Methods of communication Verbal Non-verbal Visual	# Writing pros and cons of written, verbal and non-verbal communication # Listing do's and don'ts for avoiding common body language mistakes
	SUMMER VACATION (11TH MAY- 30TH JUNE)		
Jun-25	**SUMMER VACATION (11TH MAY- 30TH JUNE)**		
Jul-25	Chapter 2: Distributions in Data Science /Emp. Skills UNIT 1: COMMUNICATION SKILLS – II	Types of distributions (discrete, continuous) # Descriptive feedback - written comments or conversations # Specific and non-specific feedback Activity/Q&A	Conduct a class survey for music preference; Analyze using distribution types and statistical questions
Aug-25	Chapter 2: Distributions in Data Science /Emp. Skills UNIT 1: COMMUNICATION SKILLS – II	Statistical Problem Solving Process # Barriers to effective communication – types and factors	Enlisting barriers to effective communication
		# Measures to overcome barriers in effective communication	Applying measures to overcome barriers in communication
		# Principles of effective communication	Constructing sentences that convey all facts required by the receiver
		# 7 Cs of effective communication #Writing skills to the following: Sentence Phrase Kinds of Sentences Parts of Sentence Parts of Speech Articles Construction of a Paragraph Q&A UNIT TESTS	# Expressing in a manner that shows respect to the receiver of the message # Exercises and games on applying 7Cs of effective communication

Sep-25	Emp. Skills UNIT 2: SELF - MANAGEMENT SKILLS – II/Emp. Skills UNIT 3: Information and Communication Technology Skills	Stress Management Self-awareness — Strength and Weakness Analysis Self-motivation Self-regulation — Goal Setting Self-regulation — Time Management	# Demonstration and practice of writing sentences and paragraphs on topics related to the subject. #Exercises on stress management techniques — yoga, meditation, physical exercises
		Basic Computer Operations Performing Basic File Operations Computer Care and Maintenance Computer Security and Privacy	Observation Checklist: Students complete tasks like creating folders, scanning USB, cleaning up software, etc.
	MID TERM EXAMINATION 16 SEPTEMBER 2025-1 OCTOBER 2025		
Oct-25	Chapter 3: Identifying Patterns	Bias (selection, linearity, recall, etc.), Central Limit Theorem, Probability	Identify types of bias in media/ads; Use CLT with simulated data; Simple
Nov-25	Chapter 4: Data Merging	Data joining (One-to-One, One-to-Many, Many-to-Many), Z-score, Percentiles, Quartiles, Deciles	Merge sample datasets using IDs; Calculate Z-scores for student height/weight; Analyze percentiles in class data
	Emp. Skills Unit 4: Entrepreneurial Skills	Entrepreneurship and Society Qualities and Functions of an Entrepreneur Myths about Entrepreneurship Entrepreneurship as a Career Option	Case Study Analysis: Study how entrepreneurs like Kiran Mazumdar Shaw (Biocon) or Verghese Kurien (Amul) made social impact. Local Business Survey: Interview a local entrepreneur about how their business affects the community. Role Play: Act out how an entrepreneur solves a local problem (e.g., waste management, water scarcity).
Dec-25	Unit 5 Green Skills	Sustainable Development Our Role in Sustainable Development	Students perform a simple audit of daily waste at home or school for a week. Categorize into: biodegradable, recyclable, non-recyclable.
	Preboard 1		
Jan-26	**WINTER BREAK 1 JAN 2026-15 JAN 2026**		
	Preboard 2		
	REVISION		
	REVISION		
Feb-26	**ANNUAL EXAMINATION 2026**		
Mar-26	**ANNUAL EXAMINATION 2026**		