DATA SCIENCE SESSION PLAN 2025-26 (STANDARD XI)

MONTH	UNITS	TOPICS COVERED	
		THEORY	PRACTICAL
Apr-25	Chapter 1: Ethics in Data Science	Evolution of Data Ecosystem, Importance of Ethics, Data Governance Framework	Case Study Analysis on Data Breach; Group Discussion on Ethical Practices
	UNIT 1: COMMUNICATION SKILLS – III	# 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
May-25	UNIT 1: COMMUNICATION SKILLS – III	#Communication stylesassertive, aggressive, passiveaggressive, submissive, etc.	# Observing and sharing communication styles of friends, teachers and family members and adapting the best practices # Role plays on communication styles.
	SUMMER VACATION (11TH MAY- 30TH JUNE)		
Jun-25	**SUMMER VACATION (11TH MAY- 30TH JUNE)**		
Jul-25	UNIT 1: COMMUNICATION SKILLS – III	# Writing skills to the following: • Sentence • Phrase • Kinds of Sentences • Parts of Sentence • Parts of Speech • Articles • Construction of a Paragraph	Demonstration and practice of writing sentences and paragraphs on topics related to the subject
	UNIT 2: SELF - MANAGEMENT SKILLS – III	#Describe the importance of dressing appropriately, looking decent and positive body language # Describe the term grooming #Prepare a personal grooming checklist	# Demonstration of impressive appearance and groomed personality # Demonstration of the ability to self- explore
Aug-25	Chapter 2: Assessing Data	Story vs Facts, Trial Assessment, Correlation and Causation	Trial Assessment Activity (e.g., practice vs no practice groups); Seed Growth Experiment
	UNIT 2: SELF - MANAGEMENT SKILLS – III	# Describe the important factors that influence in team building	Group discussion on strategies that are adopted for team building and team work
		# Meaning and importance of time management – setting and prioritizing goals, creating a schedule, making lists of tasks, balancing work and leisure, using different optimization tools to break large tasks into smaller tasks.	# Game on time management # Checklist preparation # To-do-list preparation
	UNIT 3: INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS – III	# . Introduction to word processing.	Demonstration and practice of the following: • Listing the features of word processing • Listing the software packages for word processing • Opening and exit the word processor • Creating a document
	Chapter 3: Forecasting on Data	Forecasting, Observational Study, Pros and Cons of Observational Studies	Conduct an Observational Study in school environment; Weather Forecast Analysis

Sep-25	UNIT 3: INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS – III	"# Software packages for word processing. " #Opening and exiting the word processor. # Creating a document	Demonstration and practice of the following: • Listing the features of word processing • Listing the software packages for word processing • Opening and exit the word processor • Creating a document

MID TERM EXAMINATION 16 SEPTEMBER 2025-1 OCTOBER 2025

Oct-25	Chapter 4: Randomization	Surveys, Sampling Bias, Confidence Interval, Sensor & Internet Data Collection, XML	Design a Survey; Bias Detection; Confidence Interval Calculation using Sample Data
	UNIT 3: INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS – III	Numbering and bullet Creating table Find and replace Page numbering. Printing document. Saving a document in various formats.	. Demonstration and practicing the following: • Editing the text • Word wrapping and alignment • Changing font type, size and face • Inserting header and footer • Removing header and footer . Using autocorrect option Insert page numbers and bullet Save and print a document
	UNIT 4: ENTREPRENEURIAL SKILLS- III	#Values in general and entrepreneurial values	Listing of entrepreneurial values by the students
		#Entrepreneurial value orientation with respect to innovativeness, independence, outstanding performance and respect for work	# Group work on identification of entrepreneurial values and their roles after listing or reading 2-3 stories of successful entrepreneur. # Exhibiting entrepreneurial values in Ice breaking, rapport building, group work and home assignments.
Nov-25	Chapter 5: Introduction to R Studio	R Studio Orientation, Vectors, Lists, Matrices, Arrays	Hands-on with R Studio: Create Vectors, Lists, Data Frames, Basic Graphs using ggplot2
	UNIT 4: ENTREPRENEURIAL SKILLS- III	# Attitudes in general and entrepreneurial attitudes # Using imagination/ intuition	Demonstrating and identifying own entrepreneurial attitudes during the following micro lab activities like thematic appreciation test
		# Enjoying freedom of expression and action	Preparing a short write-up on "who am I"
		# Looking for economic opportunities	Take up a product and suggest how its features can be improved
Dec-25	Chapter 5: Introduction to R Studio	Data Frames, Basic Visualization with ggplot2	Hands-on with R Studio: Create Vectors, Lists, Data Frames, Basic Graphs using ggplot2
	UNIT 4: ENTREPRENEURIAL SKILLS- III	# Analyzing situation and planning action	Group activity for suggesting brand names, names of enterprises, etc.
		# Involving in activity	Group activity for suggesting brand names, names of enterprises, etc.

WINTER BREAK 1 JAN 2026-15 JAN 2026

Jan-26	UNIT 5: GREEN SKILLS – III	# Utilization of animals in Bio-wastes and Biogas plant # Main sectors of green economy- Ewaste management, green transportation, renewal energy, green construction, water management	Preparing a poster on any one of the sectors of green economy
		# Policy initiatives for greening economy in India	Writing a two-page essay on important initiatives taken in India for promoting green economy
		Stakeholders in green economy	Preparing posters on green

Feb-26	UNIT 5: GREEN SKILLS – III	Role of government and private agencies in greening cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries	Sectors/Areas: cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries
		REVISION	
Mar-26		**ANNUAL EXAMINATION 2026**	