

DATA SCIENCE SESSION PLAN 2025-26 (STANDARD IX)

MONTH	Emp. Skills UNITS	TOPICS COVERED	
		THEORY	PRACTICAL
Apr-25	Chapter 1: Introduction to Data	What is data?, Data vs Information, DIKW model	Think of how data helps in crime solving and news
	Emp. Skills UNIT 1: COMMUNICATION SKILLS – I	Introduction to General Employability skills course 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	Chapter 1: Introduction to Data	Data footprints, Data loss and recovery	Identify personal data footprint and its implications
	SUMMER VACATION (11TH MAY- 30TH JUNE)		
Jun-25	SUMMER VACATION (11TH MAY- 30TH JUNE)		
Jul-25	Chapter 2: Arranging and Collecting Data	# Revision of previous session topics. # Orientation of vocational education and Enrolment of Students.	Revision of previous session topics.
		Data collection, Variables, Types of data, Sources of data, Big Data, Univariate vs Multivariate	Record attendance for 7 days and create a bar chart; Collect data using primary/secondary methods
	Emp. Skills UNIT 1: COMMUNICATION SKILLS – I	Meaning of communication Importance of communication skills Elements of communication cycle– sender, ideas, encoding, communication channel, receiver, decoding, and feedback	Communication Cycle Role Play, Visual Encoding Challenge
		Activity/Q&A	
Aug-25	Chapter 2: Arranging and Collecting Data /Emp. Skills UNIT 1: COMMUNICATION SKILLS – I	Data collection, Variables, Types of data, Sources of data, Big Data, Univariate vs Multivariate	Record attendance for 7 days and create a bar chart; Collect data using primary/secondary methods # Group discussion on factors affecting perspectives in communication
		# Perspectives in communication # Factors affecting perspectives in communication Visual perception Language Past experience Prejudices Feelings Environment	# Sharing of experiences on factors affecting perspectives # Sharing experiences on factors affecting communication at workplace

	Chapter 2: Arranging and Collecting Data/Emp. Skills UNIT 1: COMMUNICATION SKILLS – I	Data collection, Variables, Types of data, Sources of data, Big Data, Univariate vs Multivariate # Writing skills related to the following: Phrases Kinds of sentences Parts of sentence Parts of speech Use of articles Construction of a paragraph	Record attendance for 7 days and create a bar chart; Collect data using primary/secondary methods # Demonstration and practice of writing sentences and paragraphs on topics related to the subject
Sep-25	Emp. Skills UNIT 2: SELF-MANAGEMENT SKILLS – I	# Meaning of self-management # Positive results of self-management # Self-management skills	# Identification of self-management skills # Strength and weakness analysis
		# Factors that help in building self-confidence – social, cultural, and physical factors	# Role play exercises on building self-confidence # Use of positive metaphors/ words
	Emp. Skills UNIT 3: INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS – I	# Introduction to ICT Role and importance of ICT in personal life and at workplace	# Discussion on the role and importance of ICT in personal life and at workplace.
		# ICT in our daily life (examples) # ICT tools - Mobile, tab, radio, TV, email, etc. # Introduction to ICT Role and importance of ICT in personal life and at workplace Q&A # ICT in our daily life (examples)	# Preparing posters / collages for showing the role of ICT at workplace. # Discussion on the role and importance of ICT in personal life and at workplace.
		# ICT tools - Mobile, tab, radio, TV, email, etc. # Computer system - Central Processing Emp. Skills UNIT (CPU), memory, motherboard, storage devices.# Role and functions of Random Access Memory (RAM) and Read Only Memory (ROM)	
MID TERM EXAMINATION 16 SEPTEMBER 2025-1 OCTOBER 2025			
Oct-25	Chapter 3: Data Visualization/Emp. Skills UNIT	Importance of visualization, Dot plots, Bar Graphs	Create dot plots, bar graphs, and histograms using OpenOffice or Google
Nov-25	Chapter 3: Data Visualization/Emp. Skills UNIT	plots	Create dot plots, bar graphs, and histograms using OpenOffice or Google
Dec-25	Chapter 4: Ethics in Data Science /Emp. Skills UNIT 3: INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS – I	Ethical guidelines in data analysis, Data governance, Privacy and safety of personal data # Peripherals devices and their uses – mouse, keyboard, scanner, webcam, etc. of a computer system	Discuss real-life data misuse cases; Design a classroom data ethics code Identification of various parts and peripherals of a computer Demonstration and practice on the use of mouse Demonstration and practice on the use of keyboard Demonstration of the uses of printers, webcams, scanner and other peripheral devices Drawing diagram of computer system and labelling it

		# Primary operations on a computer system – input, process, storage, output, communication networking, etc.	Discuss real-life data misuse cases; Design a classroom data ethics code Identification of the various input and output Emp. Skills UNITs and explanation of their purposes
WINTER BREAK 1 JAN 2026-15 JAN 2026			
Jan-26	Chapter 4: Ethics In Data Science /Emp. Skills UNIT 4: ENTREPRENEURIAL SKILLS- I	# Ethical guidelines in data analysis, Data governance, Privacy and safety of personal data # Skills UNIT Business activities around us	# Discuss real-life data misuse cases; Design a classroom data ethics code # Best out of waste # Costing of the product made out of waste # Selling of items made from waste materials # Prepare list of businesses that provides goods and services in exchange for money
		# Time of application of manures, fertilizers and biofertilizers # Meaning of entrepreneurship development # Distinguishing characteristics of entrepreneurship # Role and rewards of entrepreneurship	# Visit to a Vegetable farm for applying manures and fertilizers as per the recommended dose to various vegetables # Prepare charts showing advantages of entrepreneurship over wages # Group discussions on role and features of entrepreneurship # Lectures/presentations by entrepreneurs on their experiences and success stories # Identify core skills of successful entrepreneur
Feb-26	REVISION Emp. Skills UNIT 5: GREEN SKILLS – I	REVISION OF Emp. Skills UNIT 1-Emp. Skills UNIT 4 # Introduction to environment, # Relationship between society and environment, ecosystem and factors causing imbalance # Natural resource conservation # Environment protection and conservation	# Group discussion on hazards of deteriorating environment # Prepare posters showing environment conservation # Discussion on various factors that influence our environment
		# Definition of green economy # Importance of green economy	# Discussion on the benefits of green skills and importance of green economy # Prepare a Poster showing the importance of green economy with the help of newspaper/ magazine cuttings
	REVISION		
Mar-26	ANNUAL EXAMINATION 2026		