CLIL Lesson Plan: Data Interpretation

Teacher: Dr. B. Spoorthi

Grade Level: B.Tech 1st Year – CSE/BT/MME

Course: English for Technical Communication

Subject: Data Interpretation

Duration: 120 minutes

Objectives:

Content Objective:

- By the end of this lesson, students will understand how to interpret and analyze data presented in different formats, such as line graphs and infographics.

Language Objective:

- By the end of this lesson, students will be able to describe data trends, compare statistics, and write structured analytical paragraphs based on visual data.

Materials:

- Projector and screen
- Handouts with examples of line graphs and infographics
- Sample data sets for analysis
- Notebooks or digital devices for note-taking

Preparation:

- Prepare a PowerPoint presentation covering key concepts of data interpretation.
- Provide handouts with guidelines on analyzing data trends and structuring written responses.
- Arrange classroom seating to facilitate group discussions and collaborative writing exercises.

Procedure:

1. Introduction to Line Graphs (20 minutes)

- Begin with a discussion on how line graphs present trends and patterns over time.
- Explain key components of a line graph (x-axis, y-axis, labels, data points, trends).
- Demonstrate how to describe trends using appropriate vocabulary (increase, decrease, fluctuate, plateau, peak, dip).
- Provide students with a sample line graph and guide them through the process of interpretation.

2. Group Activity: Writing a Paragraph on Line Graphs (25 minutes)

- Divide students into small groups.
- Assign each group a different line graph with data trends.
- Ask groups to analyze the data and write a structured paragraph summarizing the key trends.
- Groups share their written paragraphs with the class.

3. Introduction to Infographics (20 minutes)

- Explain what infographics are and how they present complex information in a visually engaging way.
- Showcase different types of infographics (statistical, informational, comparison-based, etc.).
- Discuss how to extract key data points from an infographic and structure a response.

4. Group Activity: Writing a Paragraph on Infographics (25 minutes)

- Assign each group an infographic related to a technical or general topic.
- Students analyze the infographic and write a structured paragraph summarizing its key points.
- Groups present their findings to the class.

5. Peer Evaluation (20 minutes)

- Groups exchange their written paragraphs with another group for peer review.
- Each group provides constructive feedback on clarity, accuracy, and completeness.
- Groups refine their paragraphs based on peer feedback.

Conclusion (10 minutes)

- Summarize key takeaways from the session.
- Discuss the importance of data interpretation in technical and academic communication.

- Thank students for their participation.

Assessment:

- Observation of students' participation in group activities and discussions.
- Evaluation of written paragraphs for accuracy, clarity, and effective data interpretation.
- Peer review feedback analysis.

Homework/Extension:

- Assign students to find a real-world data set (from news, research papers, or reports) and write a structured analysis of the trends.
- Encourage students to create their own infographic based on a dataset of their choice.

Note: This CLIL lesson plan integrates data analysis with structured writing practice, helping engineering students improve their ability to interpret and communicate data effectively.