***Patuakhali Science and Technology***

***University***

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Lab Problem 01

Course Code: CCE 112

Course Title: Engineering Drawing

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QUESTION-02: Define Algorithm

Answer: A flowchart, sometimes spelled as flow chart, is a graphical representation of a process, system, or algorithm. It uses simple shapes and arrows to depict the steps involved and the decision points that influence the flow. Think of it as a visual roadmap for understanding and communicating complex processes.

Here are some key points about flowcharts:

Components:

**Shapes:** Different shapes represent different types of steps or elements. Common shapes include rectangles for processes, diamonds for decisions, ovals for input/output points, and terminators for the end of the flowchart.

**Connectors:** Arrows show the direction of the flow between different steps. Solid lines generally indicate the main path, while dotted lines might show alternative paths or loops.

**Text:** Each shape typically contains brief text describing the specific action, decision, or information at that point.

**Benefits:**

**Clarity**: Flowcharts make complex processes easier to understand by providing a visual representation of the steps and their relationships.

**Communication**: They provide a clear and concise way to communicate the logic of a process to others, regardless of their technical background.

**Problem-solving:** By visualizing the flow, it can be easier to identify potential problems or inefficiencies in a process and make improvements.

**Documentation:** Flowcharts serve as a valuable documentation tool, providing a reference point for understanding and replicating the process.