

**CS-05: CRITICAL THINKING AND PROBLEM SOLVING****Objective:**

- Identify and define problems clearly and accurately
- To use logic, reasoning and analytical tools to evaluate information
- To recognize the value of ongoing learning and reflection in problem-solving, and continuously work to improve skills and approaches.
- To generate creative and innovative solutions to complex problems, and evaluate potential outcomes and consequences.

**Prerequisites:**

- A willingness to engage in self-evaluation.

<b>Unit No.</b>	<b>Topic</b>	<b>Details</b>
1	<b>Personality Development</b>	<ul style="list-style-type: none"><li>• Self-awareness Conducting self-assessment exercises, personality tests.</li><li>• Emotional Intelligence Practicing emotional regulation and social skills</li><li>• Motivation Setting personal and academic goals and developing strategies to achieve them.</li></ul>
2	<b>Introduction to Critical Thinking and Problem Solving</b>	<ul style="list-style-type: none"><li>• Definition of critical thinking and problem solving</li><li>• Importance of critical thinking and problem solving in personal and professional life</li><li>• Approaches to critical thinking and problem solving</li><li>• Techniques of problem solving</li></ul>
3	<b>Time Management and Goal Setting</b>	<ul style="list-style-type: none"><li>• Importance of time management</li><li>• Techniques for managing time effectively</li><li>• Goal setting and its importance</li><li>• SMART goal setting</li><li>• Prioritizing tasks</li></ul>

**Course Outcome:**

- Develop a deep understanding of critical thinking concepts.
- Develop the ability to identify and analyze problems critically, using logic and reasoning to evaluate different solutions and arrive at an effective decision.
- Enhance the ability to collaborate and communicate effectively with others, and work together to solve complex problems.



- Develop a creative mindset and an ability to think outside the box, and generate innovative solutions to complex problems.
- Develop the ability to learn from failure, and use these experiences to grow and improve problem-solving skills.

**Reference Books:**

- "Thinking, Fast and Slow" by Daniel Kahneman
- "Critical Thinking: An Introduction to Analytical Reading and Reasoning" by Larry Wright
- "The Art of Thinking Clearly" by Rolf Dobelli
- "Critical Thinking: A User's Manual" by Debra Jackson and Paul Newberry