



INTRODUCTION TO LEAN & SIX SIGMA KNOWLEDGE

COURSE OVERVIEW

Introduction to Lean and Six Sigma is a comprehensive course designed to provide a solid foundation in the principles and methodologies of these two powerful process improvement approaches. The course offers an overview of Lean and Six Sigma, exploring their origins, core concepts, and key tools. Students will gain an understanding of how Lean focuses on reducing waste and improving efficiency, while Six Sigma aims to minimize defects and variations in processes. Through interactive lectures, case studies, and hands-on exercises, participants will learn to identify opportunities for improvement, analyze data, and implement effective solutions. By the end of the course, students will be equipped with the knowledge and skills to drive continuous improvement and achieve operational excellence in various industries and organizational settings.

LEARNING OBJECTIVES

- ✓ Identify and classify different types of waste within processes and apply Lean tools to eliminate or minimize them.
- ✓ Comprehend the DMAIC (Define, Measure, Analyze, Improve, Control) framework and its application in problem-solving and process improvement.
- ✓ Identify process bottlenecks, root causes of defects, and opportunities for improvement using data-driven approaches.
- ✓ Apply Lean and Six Sigma tools such as value stream mapping, 5S, Kaizen, and process flow analysis to enhance process efficiency and effectiveness.
- ✓ Develop skills in project management and change management to successfully implement Lean and Six Sigma initiatives within an organization.
- ✓ Gain awareness of real-world case studies and best practices in Lean and Six Sigma implementation across various industries.



Participants are required to bring their personal laptops for an enriched learning experience. Or the organization should provide tablets to ensure every participant has the necessary tools for the course.