

# AGNEL TECHNICAL COLLEGE

Bandstand, Bandra, Mumbai-50

## DIPLOMA IN PRODUCTION ENGINEERING

### PROGRAM OBJECTIVES

**Diploma in Production Engineering Program** is designed to train students in the underlying principles of engineering to provide comprehensive preparation for careers in manufacturing, beginning as supervisors and junior level engineers and technicians.

**They are expected to demonstrate proficiency in:**

- **Materials and manufacturing processes:**  
Understanding the behavior and properties of materials as they are altered and influenced by processing in manufacturing
- **Process, assembly and product engineering:**  
Understanding the design of products and equipments, tooling and environment, necessary for their manufacture.
- **Manufacturing competitiveness;**  
Understanding the creation of competitive advantage through manufacturing planning, strategy, and control and supply chain management.
- **Manufacturing systems design:**  
Understanding the manufacturing operations using statistical and mathematical tools, simulation and information technology.
- **Laboratory practices:**  
Understanding the principles of measurements of manufacturing process variables in a laboratory and make technical inferences about the quality of the product and the processes.

## **PROGRAM OUTCOMES:**

To achieve the above objectives the curriculum has been designed to achieve the following student academic outcomes:

- 1. An ability to apply knowledge of mathematics, science and engineering.**
- 2. An ability to design and conduct experiments, as well as to analyze and interpret data.**
- 3. An ability to design/use a system, component or process to meet desired needs subject to constraints.**
- 4. An ability to function on multi-disciplinary teams.**
- 5. An ability to identify, formulate and solve engineering problems.**
- 6. An understanding of professional and ethical responsibility.**
- 7. An ability to think, listen and communicate effectively.**
- 8. Recognize the need for and acquire the ability to engage in life-long learning.**