

VIVEKANAND COLLEGE KOLHAPUR, (AUTONOMOUS)

Department of Foundry Technology (B.VOC.)

Course Outcomes (CO)

B. Voc. in Foundry Technology

B.Voc Part III Sem V	Course Name : Secondary Steel Making
CO1	Differentiate the special grades of steel
CO2	Importance of making clean steel
CO3	Use of different techniques to clean steel in liquid form
CO4	Use of various heat treatment processes for improving mechanical properties
B.Voc Part III Sem V	Course Name : Quality Control
CO1	Study various approaches of quality
CO2	Understand kaizen, Deming and Juran's quality control policies.
CO3	Understand statistical processes control in quality and reliability assessment of product.
CO4	Understand and apply Taguchi's experimental design for quality control.
B.Voc Part III Sem V	Course Name : Industrial Management for Foundry
CO1	Apply principles of management and carry out various functions of management
CO2	Analyze and select financial and marketing strategies of project.
CO3	Apply various strategies of management for Human Resource Planning.
CO4	Understand Management Information System and Industrial safety

B.Voc Part III Sem VI	Course Name : Welding and Salvaging Processes
CO1	Analyze various welding techniques for salvaging.
CO2	Use appropriate welding process according material specification.
CO3	Salvage different components according to physical and metallurgical characteristics.

CO4	Use of various methods of repairs: Metal Spraying
B.Voc Part III Sem VI	Course Name : Energy Conservation and Pollution Control
CO1	Select appropriate energy source including alternate energy sources.
CO2	Apply and create energy conservation techniques.
CO3	Design the procedure to control the pollution in foundries.
CO4	Gas recovery in metal processing industries, gas cleaning and removal of particulate matter from gases
B.Voc Part III Sem VI	Course Name: Fracture Mechanics and Analysis of Failure
CO1	Analyze the cast component for failure using concepts of fracture mechanics.
CO2	Analyze various types of failure at different condition.
CO3	Evaluate different case studies of failures.
CO4	Evaluate Failures due to faulty heat treatments, Failures in metal forming and welding

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HEAD
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