

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)
Department of Foundry Technology (B.VOC.)

Course Outcomes (CO)
Diploma in Foundry Technology (B.Voc. I)

B.Voc Part I Sem I	Course Name : Business Communication-I
CO1	Use appropriate words and sentences for effective communication.
CO2	Use appropriate skills for resume writing.
CO3	Use various data representation techniques.
CO4	Understand skills required for effective interview.
B.Voc Part I Sem I	Course Name : ENGINEERING GRAPHICS-I
CO1	Draw various Conics such as Ellipse & Parabola.
CO2	Draw various special curves.
CO3	Visualize and Draw appropriate projections of given point.
CO4	Visualize and Draw appropriate projections of given Line.
B.Voc Part I Sem I	Course Name : ENGINEERING MATERIALS
CO1	Select appropriate materials and its compositions amongst Ferrous Metals.
CO2	Select & Recommend suitable Non-ferrous Metal for Materials of Construction.
CO3	Apply knowledge of Plastics & Fibers for Material selection.
CO4	Apply knowledge of Refractory Materials in Industry.
B.Voc Part I Sem I	Course Name : PATTERN CONSTRUCTION TECHNOLOGY
CO1	Identify various types of Patterns & their Allowances.
CO2	Study of patterns for special processes
CO3	Study process of pattern making.
CO4	Study of various pattern making tools & machines

B.Voc Part I Sem I	Course Name : MOULDING TECHNOLOGY
CO1	Understand different sand molding techniques.
CO2	Understand working of sand molding machines.
CO3	Understand various mold design techniques.
CO4	Understand Core making processes.

B.Voc Part I Sem II	Course Name : Business Communication-II
CO1	Use appropriate communication skills and vocabulary for effective group discussion on a particular topic
CO2	Communicate professionally with his/her subordinates and business concerns effectively.
CO3	Use various negotiation techniques for business dealings for his/her organization
CO4	Use effective marketing aids for organizational business growth
B.Voc Part I Sem II	Course Name : ENGINEERING GRAPHICS-II
CO1	Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries
CO2	Visualize and draw various projection methods for lines and planes
CO3	Understand sketching of development of surfaces
CO4	Read and Interpret concepts of Isometric and Perspective Projections.
B.Voc Part I Sem II	Course Name : MELTING TECHNOLOGY
CO1	Handle scraps and select proper charging method in furnace
CO2	Find appropriate melting operations and decide post melting treatments as per type and grade of metal
CO3	Decide correct procedure of composition control as per required properties and composition
CO4	Optimize different parameters for furnace efficiency
B. Voc Part I Sem II	Course Name : GATING SYSTEM AND RISERING
CO1	Select appropriate Gating System.
CO2	Design Gating system for given mould.

CO3	Design risers for a particular mould
CO4	Select appropriate technique to increase riser efficiency
B.Voc Part I Sem II	Course Name :CASTING PROCESSES
CO1	Study of various special casting techniques
CO2	Select appropriate casting method for different casting materials
CO3	Study of various casting defects
CO4	Analysis of casting defects & implement remedial measures in the foundry

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