



SYLLABUS COVERAGE		Total Periods:56			Theory:56		
Sr No	Period Nos	Topic	Details	Instruction Reference	Additional Study Recommend	Remarks	
3	23-28	<b>Boring</b>	3.1 Principle of boring 3.2 Classification of boring machines and their description 3.3 Specification of boring machine 3.4 Boring tools 3.5 Boring bars and boring heads 3.6 Alignment of bores and its importance	Workshop Technology by BS Raghuvanshi.			
4	29-38	<b>Shaping, Planning and Slotting</b>	4.1 Working principle of shaper, planer and slotter 4.2 Quick return mechanism 4.3 Types of tools used and their geometry 4.4 Specifications of shaper, planer and slotting machine 4.5 Speeds and feeds in above processes.	Elements of Workshop Technology by SK Chaudhary & Hajra.			
5	39-56	<b>Foundry Practices</b>	5.1 Pattern making 5.1.1 Types of patterns 5.1.2 Pattern materials 5.1.3 Pattern allowances 5.1.4 Colour coding of patterns 5.1.5 Introduction to cores 5.1.6 Core materials and types of cores 5.2 Moulding 5.2.1 Introduction to moulding 5.2.2 Types of moulding sand and additives, their properties 5.2.3 Sand mixing and mould preparation 5.2.4 Casting defects - causes and their remedies 5.3 Melting and pouring 5.3.1 Types of melting furnaces -: Pit furnace, Cupola, Reverberatory and Electric melting furnace 5.3.2 Closing and pouring of mould 5.4 Special casting methods	----do----			

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DATE :- 30/8/2022	<i>Cherno</i>