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32046 - SPECIAL MACHINES PRACTICAL

DETAILED SYLLABUS

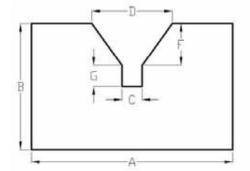
OBJECTIVES

- Identify a milling machine and its parts
- Identify a cylindrical grinder, surface grinder and tool and cutter grinder
- Identify shaper, Slotter and its parts
- Identify the tools and instruments used in milling.
- Handle the different types of work holding devices
- Machine a component using different machine tools.
- Calculate the indexing for a work
- Machine a gear using milling machine.
- Machine a cutting tool using Tool and Cutter grinder.
- Machine a plug gauge using Cylindrical grinding machine.
- Machine components by shaping machine
- Machine components by slotting machine
- Prepare a record of work for all the exercises.

EXERCISES

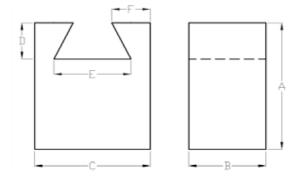
Raw Material: M.S. / C.I

1. Make 'V' Block using shaping machine



	Dimensions			
	Sl.No	Part Name	Actual	Obtained
	()()			
-				

2. Make dovetail using shaping machine



Dimensions				
SI.No	Part Name	Actual	Obtained	
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Available in /AllAbtEngg Android App too,

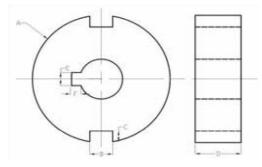
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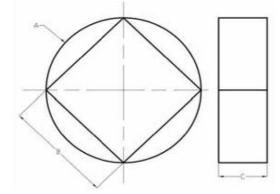
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3. Make groove cut using slotting machine



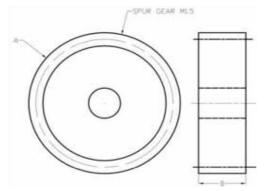
4. Make round to square in milling machine.



	Dime	nsions	
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		2	
-	-	0	

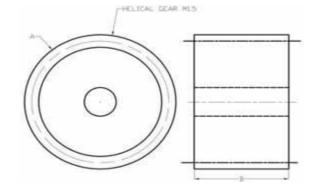
Dimensions				
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5. Make Spur Gear using milling machine by Differential Indexing.



Dimensions				
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6. Make Helical Gear using milling machine



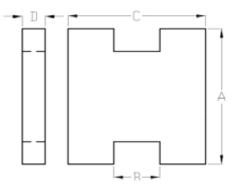
Dimensions				
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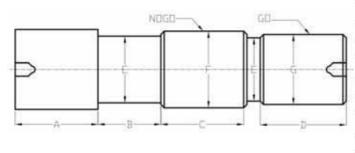
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7. Make slot cut using milling machine.



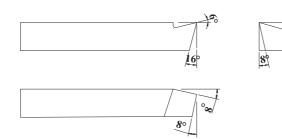
	Dimensions					
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3						
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8. Make Progressive type Plug gauge using Cylindrical Grinding machine



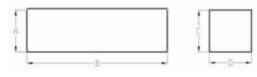
Dime	nsions	
Part Name	Actual	Obtained
	1 TT 27 C N TP	Dimensions Part Name Actual

9. Make a turning tool using Tool and Cutter Grinder



Part Name		
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	-)	
	11 - 12 - 13 - 13 - 13 - 13 - 13 - 13 -	

10. Make plain surfaces (four surfaces) using surface Grinder



Dimensions				
SI.No	Part Name	Actual	Obtained	
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