ENGINEERING WORKSHOP AND MANUFACTURING PRACTICES

Course Code		Category Hours /			Week Credits		Maximum Marks		
A5ME03		ESC	L	Т	Р	С	CIE	SEE	Tota
		200	1	-	3	2.5	30	70	100
OURSE OF		ES:							
tudent will be									
		he hands on experience on various trades.							
		arious machining opera							
	•	o make useful products	-	e or m	ore opera	tions.			
4.	Learn varı	ous manufacturing pro	cesses.						
		LIST	OF EXPE	RIME	NTS				
WEEKS		BASIC TRADES			BASIC MANUFACTURING				
		Fitting			Machine Shop				
Week 1 Fil		Filing Four Sides of Work piece			Facing & Step Turning on Lathe				
Week 2	LF	L Fit			Milling and Drilling				
		Carpentry			Black Smithy				
Week 3		Half Lap Joint			Convert round rod to S-hook				
Week 4	Do	Dove Tail Joint			Convert round rod to Chisel				
		Tin Smithy	/			C	asting		
Week 5		Tin Smithy- Prepare a Rectangular Tray			Preparation of Mould Cavity for Multi Piece Pattern				
Week 6	Pre	Prepare A Square Tin			Casting of Simple pattern				
		Electrical			Welding Shop				
Week 7	Week 7 House Wiring Parallel and S Connection Connection		I Series		Lap/Butt joint Using Arc Welding				
Week 8	Но	use Wiring Two Way S	witch		Lap/But	t joint Using	g Gas V	Velding	
		Electronics			Plastic Moulding				
Week 9	So	Soldering Parallel Connection			Injection moulding of Simple Components				
Week 10 Soldering Series C		Idering Series Connect	ction		1				
Week 11	Ma	king useful product usi	ng 3 or m	ore	Making	useful prod	uct usir	ng 3 or m	ore

	operations.	operations.			
Note: Total 16 e	xperiments are to be conducte	d.			
TEXT BOOKS:					
1. Worksho	p Manual by P. Kannaiah and	K. L. Narayana.			
2. Rao P.N., "Manufacturing Technology", Tata McGraw Hill House, Vol. I and Vol. II.					
REFERENCE B	OOKS:				
Technology 2. Kalpakjia	", Media promoters and publisl	ury A.K. and Nirjhar Roy S.K., "Elements of Workshop ners private limited, Mumbai, Vol. I 2008 and Vol. II 2010. I, "Manufacturing Engineering and Technology", Pearson			
	COMES:				