Department of Freshman Engineering

Basic Workshop

Course			20ES1153 Year				Ι		Sem	Semester		Ι		
Code													•	
Course			Engine	ering	g Branch			CE		Cou	Course Type		Lab	
Category			Scie											
Credits			3		L-T-P			1-		Prerequisites		s	Nil	
Continuous			15		Sem	Semester End		35		Total		50		
Internal					Eval	Evaluation				Marks				
Evaluation														
							ourse (
1			completi											
CO1														
CO2	CO2 Practice on manufacturing of components using workshop trades including Tin smithy									fitting				
<u> </u>	and carpentry. (L3)													
CO3		pply basic electrical engineering knowledge for house wiring and soldering practice. (L3)												
CO4	Den	Demonstrate basic concepts of software installations, operating systems and networking. (L3)												
	Co	ontrib	ution of	f Cours	se Out	comes	towar	ds ach	ievem	ent of P	rogram	Outcon	nes &	
										dium, 1	0			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	2	2			3		2	2	3	2
CO2	3	2				2			3		2	2	3	2
CO3	3	2				2			3		2	2	3	2
CO4	3	2	2	2	2	2			3		2	2	3	2
							Syll	abus						
Unit I	Jnit No. Syllabus									Mapped CO's				
1									ls and	l tools ı	ised in	wood		
	working and make following joints								001					
		1. Half – Lap joint.											CO1, CO2	
		 Mortise and Tenon joint. Corner Dovetail joint or Bridle joint. 												J2
2										cod in	shoot	motal		
2 Familiarity with different types of tools used in sheet metal working, Developments of following sheet metal job from GI sheets														
			1. Tap			5 01 10	10 11 11	Since	t meta	1 JOD 11		Sheets		
		2. Conical funnel											CO1, CO2	
			3. Elbo	w pipe	e								C	52
3						ent ty	pes of	f tools	used	in fittin	g and o	do the		
		foll	owing f	itting	exerci	ses								
				V-fit									CC	D1.
				Doveta										D2
				Semi-c					0					
A										o wheel				
4							types	of ba	asic el	ectrical	circuit	is and		
	make the following connections													
		 Preparation of a circuit for Parallel and series connection. Preparation of a circuit for Go down lighting using Two-way 						.7	CO1,					
	switch to connect tube light.						у	C	03					
				lering of			.S							
			5.500	iering (5								

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5	 Students have to be given a PC which does not boot due to improper assembly or defective peripherals. They should identify the problem and fix it to get the computer back to working condition. Installation of MS-Windows and Linux. Connection of LAN and access the Internet, Configuration of TCP/IP setting and access of websites and email. Exploring MS-Word and sample tasks. Document creation and editing text documents in your web browser using Google docs. 	CO4					
Learning Resources							
Text Books							
1. Work shop Manual - P.Kannaiah/ K.L.Narayana/ Scitech Publishers.							
2. Workshop Manual / Venkat Reddy/ BS Publications/Sixth Edition.							

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