Prasad V. Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada

PVP20

Department of Freshman Engineering

Basic Workshop

Code		20ES1252		Year	Year		I		Sem	Semester		II			
Code Course		Engineering		Brai	Branch		ECE		Cou	Course Type		Lab			
Category		Science								<i>.</i> .					
Credits			3			L-T-P		1-0-4			Prerequisites		Nil		
Continuous			15			Semester End		35			Total		50		
Internal				Evaluation		1			Mar	Marks					
Evaluation Course Outcomes															
Unon	CHCC	accful.	completi	on of t	ha cou					, to					
CO1	Upon successful completion of the course, the student will be able to CO1 Study and practice on basic hand tools and their operations. (L3)														
CO2		Practice on manufacturing of components using workshop trades including Tin smithy, fitting													
002		and carpentry. (L3)													
CO3	_	oply basic electrical engineering knowledge for house wiring and soldering practice. (L3)													
CO4		Demonstrate basic concepts of software installations, operating systems and networking. (L3)													
Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (3:High, 2: Medium, 1:Low)															
	PO1	PO		PO4	PO5	PO6	,	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	3	2	2 2	2	2	2	107	100	3	1010	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 N	Vo.	o. Syllabus												Mapped CO's	
1			miliarit						ds and	l tools ı	used in	wood			
	working and make following joints														
		1. Half – Lap joint.											CO1, CO2		
		2. Mortise and Tenon joint. 3. Corner Devetail joint or Bridle joint											C)2	
2		3. Corner Dovetail joint or Bridle joint. Familiarity with different types of tools used in sheet metal													
		working, Developments of following sheet metal job from GI sheets													
				ered tra			,,	8		- J			CC	\1	
		2. Conical funnel												CO1, CO2	
			3. Elbo											<i>J</i> 2	
3			miliarit				pes of	f tools	used i	in fittin	g and d	do the			
		fol	lowing f	_	exerci	ses									
		1. V-fit												CO1,	
		2. Dovetail fit3. Semi-circular fit											CC)2	
							e and	change	of two	o wheel	er tire				
4	4. Bicycle tire puncture and change of two wheeler tire Familiarities with different types of basic electrical circuits and														
make the following connections															
	1. Preparation of a circuit for Parallel and series connection.								CO1,						
	2. Preparation of a circuit for Go down lighting using Two-						ſwo-way	y	CO3						
		switch to connect tube light. 3. Soldering of wires													
			3. Solo	dering (of wire	S									

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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.