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

PVP20

## **Department of Freshman Engineering**

#### **Basic Workshop**

Course		20ES1252		Year	Year		I		Sem	Semester		II		
Code												_		
Course		Engineering		Brai	Branch		EEE		Cou	Course Type		Lab		
Category		Science		V 70										
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														
Course Outcomes  Upon successful completion of the course, the student will be able to														
CO1		udy and practice on basic hand tools and their operations. (L3)												
CO2		actice on manufacturing of components using workshop trades including Tin smithy, fitting									fitting			
	and carpentry. (L3)													
CO3	Ap	ply basic electrical engineering knowledge for house wiring and soldering practice. (L3)												
CO4	De	emonstrate 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)														
	PO	PO	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
								abus						
Unit N	No.						Syllabı					_	Mappe	d CO's
1			miliarit						is and	tools 1	used in	wood		
	working and make following joints								CO1,					
		<ol> <li>Half – Lap joint.</li> <li>Mortise and Tenon joint.</li> </ol>											CO2	
		3. Corner Dovetail joint or Bridle joint.											Č.	
2		Fa	miliarit							sed in	sheet	metal		
			rking, I	•			-							
		1. Tapered tray											CO1,	
		2. Conical funnel											CO1,	
			3. Elbo					0 . 1						
3			miliarit	•		•	pes of	tools	used i	in fittin	ig and o	do the		
		101	lowing f	_	exerci	ses								
		<ol> <li>V-fit</li> <li>Dovetail fit</li> </ol>											CO1, CO2	
		3. Semi-circular fit										C	)2	
							e and	change	of two	o wheel	er tire			
4		Fa										s and		
	4 Familiarities with different types of basic electrical circuits and make the following connections													
			1. Prep	oaration	of a c	ircuit f	for Par	allel an	d serie	s conne	ction.		CO1,	
	2. Preparation of a circuit for Go down lighting using Two-way								y	CO3				
	switch to connect tube light.								-					
	3. Soldering of wires													

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5	<ol> <li>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.</li> <li>Installation of MS-Windows and Linux. Connection of LAN and access the Internet, Configuration of TCP/IP setting and access of websites and email.</li> <li>Exploring MS-Word and sample tasks. Document creation and additing text documents in your web browser using Google docs.</li> </ol>	CO4			
	editing text documents in your web browser using Google docs.				
Learning Resources					
Toyt Rool	70				

#### Text Books

- 1. Work shop Manual P.Kannaiah/ K.L.Narayana/ Scitech Publishers.
- 2. Workshop Manual / Venkat Reddy/ BS Publications/Sixth Edition.