SCHEME OF COURSE WORK

CourseTitle	ENGINEERING WORKSHOP							
Course Code	22ES11EW L T P C 10-						1043	
Program	B Tech							
Specialization	Computer Science and Engineering							
Semester	Ι							

Course Outcomes(COs):

At the end of the course, the student will be able to

CO1	Demonstrate Wood working and Sheet metal working skills
CO2	Demonstrate Fitting trade and House wiring skills
CO3	Demonstrate 3-D Printing and Engraving skills
CO4	Demonstrate the installation of Operating Systems and identify the components of the Computer.
CO5	Use MS office tools in crafting word documents, spreadsheets, and PowerPoint presentations
CO6	Use Latex tools to prepare documents

Course Outcome Versus Program Outcomes Versus Program Specific Outcomes:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO-1	3			2											
CO-2	3			2											
CO-3	3			2											
CO-4	3			2										2	
CO-5	3			2											2
CO-6	3			2											2

3-Stronglycorrelated, 2-Moderatelycorrelated, 1-Weaklycorrelated, Blank–Nocorrelation

Teaching-LearningandEvaluation

W	Topic/contents	Course Sample questions								
ee k		Outcomes		LEARNING STRATEGY	nt Method					
n				JIKAILUI	&					
			- 117		Schedule					
1	Preparation of half – lap joint using wooden pieces	CO1	 1. What are different types of wood? 2. What is the function of trysquare? 	Experiment						
2	Preparation of Mortise and Tenon joint using wooden pieces	CO1	 Applications of mortise and tenon joint What are various Marking tools 	Experiment						
3	Preparation of a tapered tray using sheet metal, Preparation of a conical funnel using sheet metal	CO1	 Name different tools of sheet metal What do you mean by galvanization 	Experiment	Day to Day Analysis					
4	Preparation of a V-fit using mild steel pieces, Preparation of a semi- circular fit using mild steel pieces	CO2	 Name fitting tools What is mild steel 	Experiment	-I and Lab Internal- I					
5	Wiring of two bulbs in Parallel and Series, Wiring to control a lamp with two-way switches	CO2	 1. What do you mean by parallel connection 2. What is 	Experiment						
6	Wiring to control a fluorescent tube light with one-way switch	CO2	series connection	Experiment						
7	Manufacture of components by 3-D Printing	CO3	1. Explain cutting with laser beam	Experiment						
8	Engraving / Cutting with laser beam	CO3		Experiment						
9	9 Lab Internal-1									
10	peripherals of a computer or laptop, block diagram of the CPU	CO4	1. Draw the block diagram of CPU and explain them.	□ Lecture □ PPT	Day to Day Analysis -II and					

11	installation operating systems like Linux and MS windows	CO4	1. Write the steps to install linux operating system	Discussion	Lab Internal- II					
12	Using MS word perform functionalities	CO5	 Format Images, Textboxes using MS Word Use Drawing toolbar and Word Art in MS Word 	LecturePPTDiscussion						
13	Using MS Excel perform functionalities	CO5	 Perform conditional formatting in excel. Use Charts in excel. 	LecturePPTDiscussion						
14	Using MS Powerpoint functionalities	CO5	 Perform Orientation in powerpoint. Use Slide Layouts, Auto Shapes in powerpoint. 	 Lecture PPT Discussion 	Day to Day Analysis -II and					
15	simple document using Latex -1	CO6	1. Perform Typesetting and use Tables in Latex	LecturePPTDiscussion	Lab Internal- II					
16	Create a newsletter using Latex-2	CO6	1. Use figures, Equations and References in Latex	LecturePPTDiscussion						
17	Create a newsletter using MS word ,Calculate GPA of all students in a class using Excel	CO5	1. Create a news letter in MS Word	LecturePPTDiscussion						
18	18 Lab Internal-2									