Course Code	Course Name	Teaching Scheme (Contact Hours)				Credits Assigned				
		Theory	y Pra	act.	Tut.	Theory	Tut.	Pract.	Total	
FEL105	Basic Workshop Practice-I	-	2					1	1	
Course Code	Course Name	Examination Scheme								
		Theory					Term		Total	
		Internal Assessment End				Exam.		Pract.		
		Test1	Test 2	Avg.	Sem. Exam.	Duration (in Hrs)	Work	/oral	Iotai	
FEL105	Basic Workshop Practice-I						50		50	

Objectives

- 1. To impart training to help the students develop engineering skill sets.
- 2. To inculcate respect for physical work and hard labor.
- 3. To get exposure to interdisciplinary engineering domain.

Outcomes: Learners will be able to...

- 1. Develop the necessary skill required to handle/use different fitting tools.
- 2. Develop skill required for hardware maintenance.
- 3. Able to install an operating system and system drives.
- 4. Able to identify the network components and perform basic networking and crimping.
- 5. Able to prepare the edges of jobs and do simple arc welding.
- 6. Develop the necessary skill required to handle/use different plumping tools.
- 7. Demonstrate the turning operation with the help of a simple job.

	Detailed Content	Hrs.			
Demonstra same. Repowork CO-1 is re CO-2 to CO CO-5 is re CO-6 is re CO-7 is re	Trade 1 and 2 are compulsory. Select any ONE trade topics out of the topic at trade 3 to 5. Demonstrations and hands on experience to be provided during the periods allotted for the same. Report on the demonstration including suitable sketches is also to be included in the term				
Trade-1	 Fitting (Compulsory): Use and setting of fitting tools for chipping, cutting, filing, marking, center punching, drilling, tapping. Term work to include one job involving following operations: filing to size, one simple male-female joint, drilling and tapping 	10			

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Trade-2	Hardware and Networking: (Compulsory) • Dismantling of a Personal Computer (PC), Identification of Components of a PC such as power supply, motherboard, processor, hard disk, memory (RAM, ROM), CMOS battery, CD drive, monitor, keyboard, mouse, printer, scanner, pen drives, disk drives etc. • Assembling of PC, Installation of Operating System (Any one) and Device drivers, Boot-up sequence. Installation of application software (at least one) • Basic troubleshooting and maintenance • Identification of network components: LAN card, wireless card, switch, hub, router, different types of network cables (straight cables, crossover cables, rollover cables) Basic networking and crimping. NOTE: Hands on experience to be given in a group of not more than four students	08
Trade-3	 Welding: Edge preparation for welding jobs. Arc welding for different job like, Lap welding of two plates, butt welding of plates with simple cover, arc welding to join plates at right angles. 	06
Trade 4	 Plumbing: Use of plumbing tools, spanners, wrenches, threading dies, demonstration of preparation of a domestic line involving fixing of a water tap and use of coupling, elbow, tee, and union etc. 	06
Trade-5	Machine Shop: • At least one turning job is to be demonstrated and simple job to be made for Term Work in a group of 4 students.	06