

ENGINEERING WORKSHOP

Objective: To familiarize with the basic manufacturing processes and to study the various tools and equipment used, Hands on training is given in different sections. Essentially student should know the labour involved, machinery or equipment necessary, time required to fabricate and also should be able to estimate the cost of the product or job work.



Sections Handled: I YEAR II SEM A, B

Major Equipment Details:

S. No	Name of the Equipment	Quantity
1	Carpentry bench vice 205	16
2	Carpentry bench vice 8"C	2
3	Bench wise	28
4	Try square 6"	46
5	Scribers200mm	10
6	Divider6"	10
7	Nylon mallet	15
8	Nose plier6"	6
9	Ball pin hammer	10
10	Hand saw	20
11	Firmer chisel	8
12	Mortise chisel	8
13	Wooden mallet	12
14	Claw hammers	1
15	Screw drivers	4
16	Tape3m	1
17	Pincer	1
18	Metal jack planer	20

19	Marking gauge	12
20	Curved snips	15
21	Straight snips	20
22	Hack saw frame	18
23	Bench grinder	1
24	Grinding stone	1
25	Number punch set	1
26	Letters punch set	1
27	Tongs	20
28	Shearing machines	1
29	Wood rasp file	6
30	Steel rule	35
31	Cutting plier	2
32	Testers	1
33	Flat files	15
34	STRAIGHT peen HAMMER	4
35	Inside and outside calipers	12
36	Drilling machine	1
37	Oil stone 6"	1
38	Smooth planer	4
39	Funnel stake	1
40	Tenon saw	10
41	Stakes	5
42	Anvil(100kgs)	4
43	Leather bellow	1
44	Leg vice on stand	1
45	Vernier callipers	2
46	Square file 10"r	4
47	Round file	4

48	Triangle file10"r	4
49	Half round file10"r	12
50	Dot punch100mm	6
51	Diamond point chisel	1
52	Surface plate	4
53	Vernier height guage	2
54	Cold chisel flat	2
55	C.i swage block	2
56	Wire guage	2
57	Feller guage	1
58	SCREW pitch GUAGE(COMBINED)	1
59	Round nose chisel150mm	1
60	Round nose tongs	4
61	Flat nose tongs	4
62	Square nose tongs	2
63	Hot chisel	1
64	Cold chisel	1
65	Swages	2
66	Flatter rodde	2
67	Hand blower on stand	1
68	Cclamp	1
69	Claw hammers	2
70	Hammer(8kgs)	1
71	Vblock	2
72	Pickup tongs	4
73	Flatters	2

Lab In charge with qualification: - Mr. K. Pavan Kumar, M. Tech
 Lab Technical name with qualification: S. Venkat Rao -DME

Experiment list as per curriculum:

1. Preparation of Cross Lap Joint
2. Preparation of Mortise and Tenon Joint
3. Preparation of Vee Fit
4. Preparation of Half Round Fit
5. Preparation to Round Rod to square Rod
6. Preparation of Round Rod to Flat Ring.
7. Preparation of Series and parallel Connection of three bulbs
8. Preparation of Stair Case Wiring.
9. Preparation of Open Scoop
10. Preparation of square Box without lid

Experiment list beyond the curriculum

1. Preparation of Bridle Joint
2. Preparation of Arrow Fit