University Roll no. - T91/ECE/204058, Page No. - 01, Signature-Archane Gri.

University Roll no. - T91/ECE/204058

Subject - Workshop Practice

Semester - 2nd

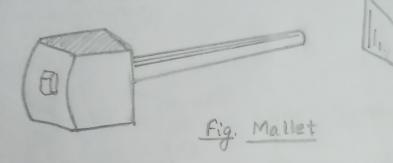
Paper code - ME 207

Date - of - enamination - 03,08,2021

Signature - Aschane kni

Page No. - 01.

1) a) MALLET:



→ Mallet is a hamming tool, used for driving chisel handle as well as assisting in assembling jobs. It is also used and called as wooden hammer.

It has has a long-handled wooden stick with a head-like a hanner often made of wood or rubber.

6) MARKING GAUGE

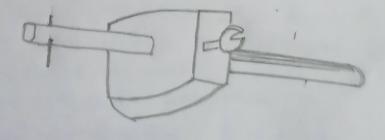
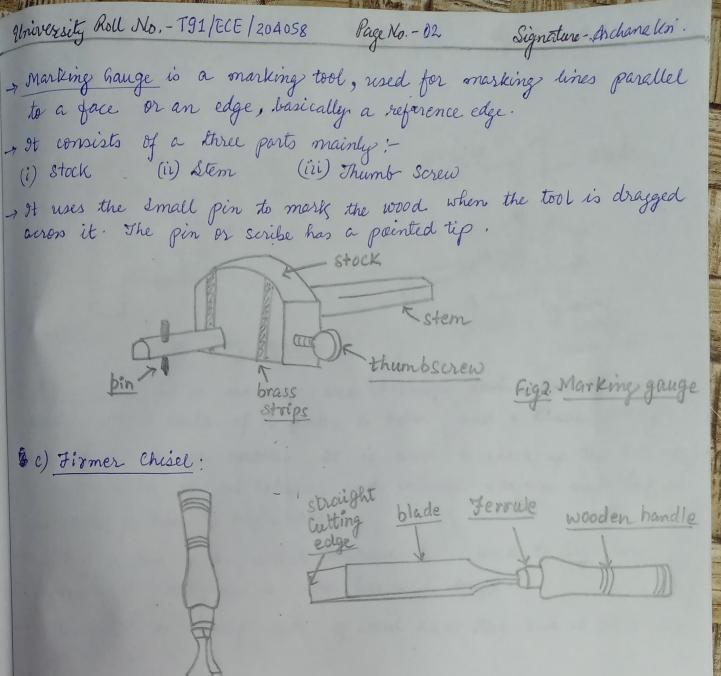
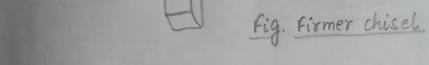


Fig. Marking gange.





- -> Firmer chisel is a cutting tool, which has a thick, strong blade that allows removal of large pieces of wood in a single strike) Its size depends on the width of blade, range in (1/4", 1/2", 3/4",
- 1" & 2") or (6,12,18,25) mm rigto 50 mm. &
- -> It has 2 main parts: i) Blade & ii) Wooden handle.
- > Firmer chisels is used for finish daps, mortise socket etc

Da) TRY SQUARE

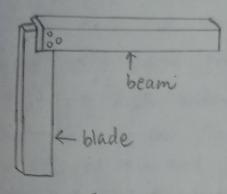
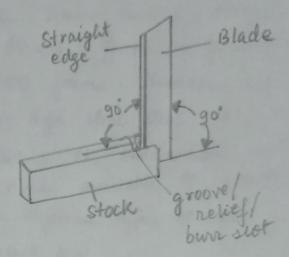
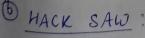
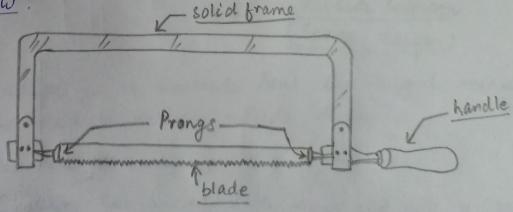


Fig. Try Square



- Try square is a marking and checking instrument of right angles. It is made of 2 parts, a beam and a blade, fixing right angle to one another. It is used to check-up the accuracy of right angles 30' on external and internal surfaces and to find the even flatness to right angles.
- JA try square is so called because it is used to try how square the workpiece is, and has a 'L' shape.
- The blade is usually made of wood an or steel and is fixed into the stock.





University Roll No. - T91/ECE/204058 8 Page 16.-04 adjustable frame Signature - Ar chane Kri. Different parts of a hand saw

University Roll No. - T91/ECE/204058 Page No. - 05 Signoture Archana Kn.

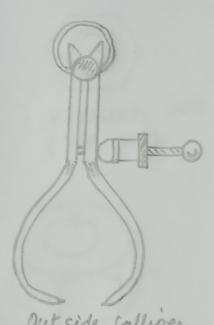
- Hock saw is used to cut metals parts such as rods, flats and

making a thin metal part in 2 pieces etc. - A hand hacksaw consists of a blade, Frame, Handle, Prongs , Tightening Screw and wing nut. Flacksow frame is of 2 types, They are Soled trame and adjustable frame. Hacksaw blades are made of high carbon steel or high speed steel. The length of the blade is the distance between the blades holes centres of the Roles at each end. flacksaw blades available of 14 teeth, 18 teeth and 24 teeth to an inch for different types of worke. - Hacksaw is a hand-powered, fine-too thed saw.

c) OUTSIDE CALLIPER



Figs Outside Calliper (Firm-joint)



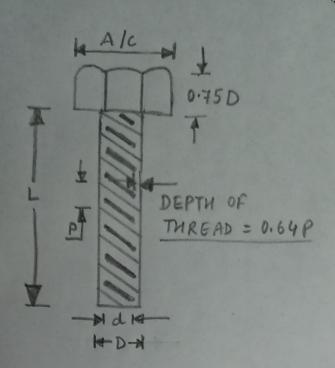
fige: Outside calliper (Spring calliper)

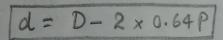
- "> Outside calliper is an inwards bent two legged measuring instrument used to measure outside dimensions.
- > It measures the enternal size of an object.
- I the spring calliper has an adjustable screw and nut & (fig 2).
- * While the fig1. has firm joint callipers which are held at the joint. together at the top with a next.

AIR

0.90







Alf = 1.25D + 6 MM Alc = A/F x 1.155



HEXAGONAL NUT



HEXAGONAL HEADED BOLT



Elniversity Roll 210.- T91/ECE/204058 Bage No. - 07 Signature - drichane Wri (4) a) weldability is defined as the capacity of being welded into inseparable joints having specified properties. It depends on fine major factors: i) Melting points: Moterials with low or medium MP. are preferred. ii) Thermal conductivity (K): Thermal conductivity is indirectly proportional to weld ability. iii) Thermel expansion: Metab should not deform more due to high heat generation during welding, metab with high thermal expansion coefficient are not preferred for welding.

- iv) Surface Condition: Materials with oily surfaces, grease melles it difficult to weld.
 - v) Changing microstructure
- used for welding process: b) list of tools & equipments
 - 1) AC machine
 - 2) Electrode
 - 3.) Electrode holder
 - 4) Cable & cable connector
 - 5) Cable plug
 - 6) Chipping hammer
 - 7) Earthing clamps

- 8.) Wire brush
- 3.) Helonet
- 10) Safety goggles
- 11) Hand gloves
- 12) Aprons.