

JALPAIGURI GOVERNMENT ENGINEERING COLLEGE
A GOVERNMENT AUTONOMOUS COLLEGE
DEPARTMENT OF WORKSHOP
JALPAIGURI -735 102
First and Second Semester
ME- 192 & ME- 292

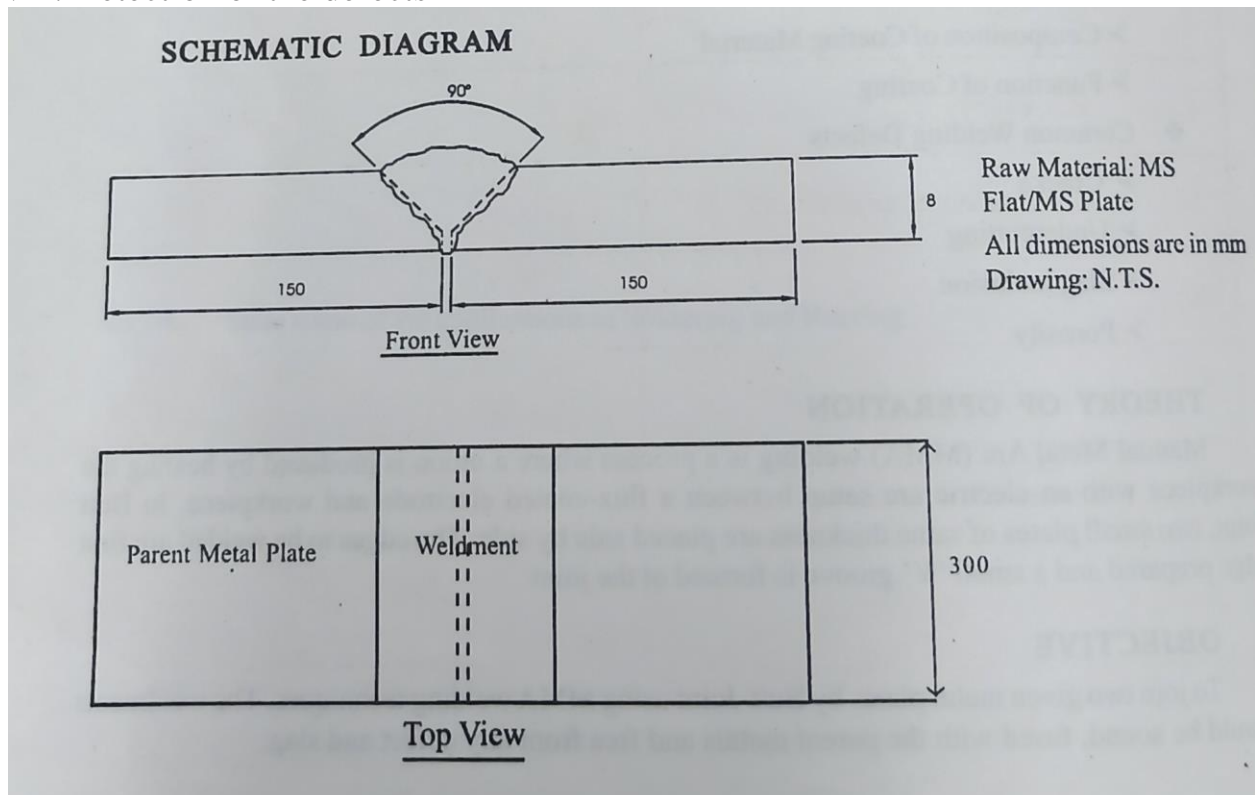
Prepared by Sri C.K.Jena

EXPERIMENT PROCEDURE

Name of the Experiment

BUTT JOINT BY MMA WELDING

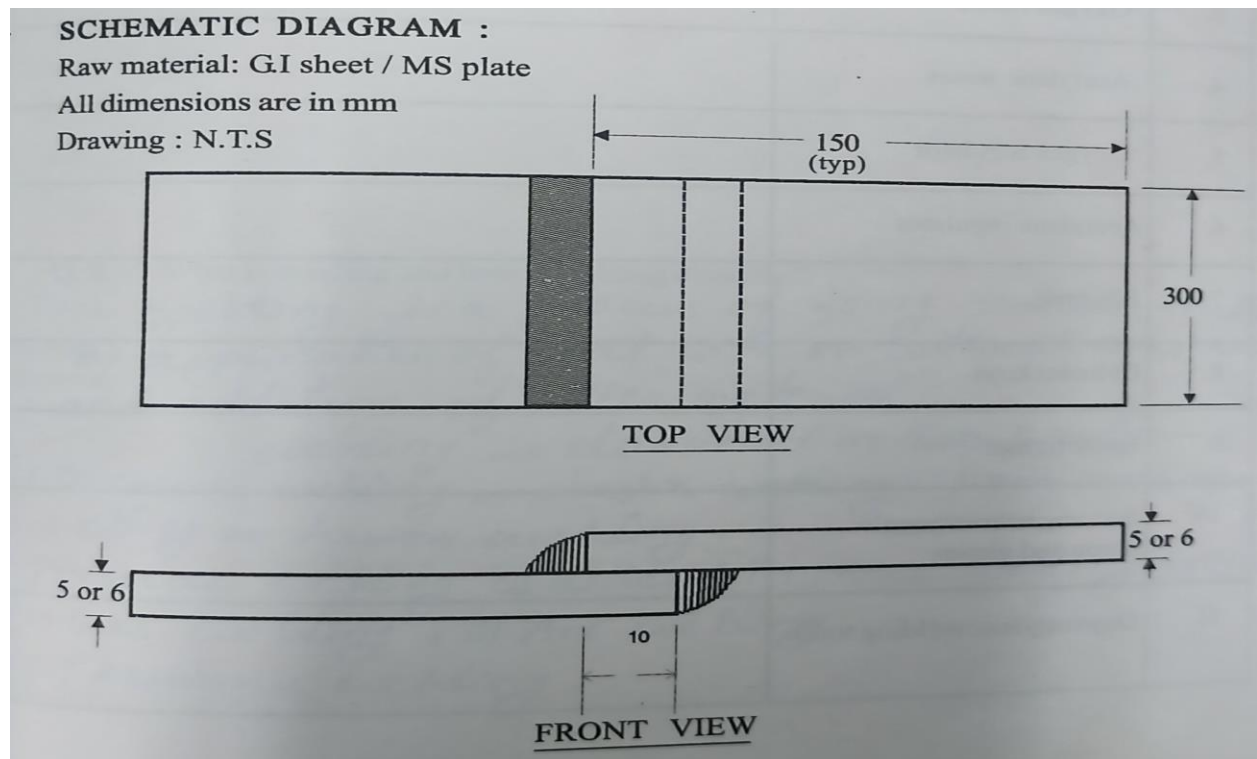
- i. Cleaning the workpieces
- ii. Edge preparing and V-grooving
- iii. Placing the workpiece on the table
- iv. Fixing the workpiece on the table
- v. Welding the joint
- vi. Allowing the joint to cool
- vii. Removal of slag deposit
- viii. Detection of the defects



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Name of the Experiment
MAKING A LAP JOINT BY GAS WELDING

EXPERIMENT PROCEDURE

- i. Cleaning the workpiece and edge squaring
- ii. Placement of the workpiece on the table
- iii. Fixing the workpiece on the table
- iv. Setting the equipments
- v. Welding the joint
- vi. Cooling the weld
- vii. Removal of the slag
- ViiL Detection of the defects.



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Name of the Experiment

MAKING A PATTERN ON METAL PLATE

EXPERIMENT PROCEDURE

THEORY OF OPERATION BENCHWORK

- Marking out and preparing the work for machining
- Adjustment of details after machining
- Building up of mechanism and other assemblies after the machined details have been made
- Making and finishing of tools, gauges etc.
- Repair and adjustment of machine tools

FITTINGS WORK

Hand tools are used

- Operations involve filing, sawing, chipping etc.

OBJECTIVE

To square a given metal plate and then making a V-groove and finally chipping out a portion of the given plate.

EXPERIMENT PROCEDURE

- a) Measuring of the given Block
- b) Filing
- c) Edge Squaring
- d) Marking the given dimensions on the Block
- e) Sawing
- f) Chiseling
- g) Chipping

SCHEMATIC DIAGRAM
RAW MATERIAL - Mild Steel Flat
ALL DIM ARE IN mm
DWG - N.T.S

