



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziznagar Gate, C.B. Post, Hyderabad – 500 075

DEPARTMENT OF MECHANICAL ENGINEERING II B.Tech I Semester PRODUCTION TECHNOLOGY LAB (A21381)

Upon the completion of the lab the students should be able to

CO1	Understand the operating methods of welding mechanical press and moulding machines
CO2	Measuring the properties of moulding sand
CO3	Evaluate the quality of welded joints and products made by mechanical press



LIST OF EXPERIMENTS

Metal Casting Lab	
1	Pattern Design and making for one casting drawing
2	Sand properties testing exercise for strengths and permeability
3	Moulding Melting and Casting
Welding Lab	
1	Spot welding
2	Gas welding
3	Soldering and Brazing



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziznagar Gate, C.B. Post, Hyderabad – 500 075

Mechanical Press Working	
1	Blanking & piercing operation and study of simple, compound and Progressive press Tools
2	Hydraulic press: Deep Drawing
3	Bending operations
Processing of Plastics	
1	Injection moulding
2	Blow moulding

LIST OF EQUIPMENTS

S.No.	NAME OF THE EQUIPMENT	QUANTITY
01	Wood turning lathe & accessories	01
02	Sand strength testing machine	01
03	Permeability tester	01
04	Sand rammer	01
05	Moulding Equipment	01
06	Melting Furnace	01
07	Spot welding machine	01
08	Gas welding equipment & accessories	01
09	Soldering equipment	01
10	Brazing equipment	01
11	Hydraulic press	01
12	Injection moulding machine	01
13	Blow moulding machine	01