

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF MECHANICAL ENGINEERING

II Year - I Semester		L	T	P	C
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PRODUCTION TECHNOLOGY LAB					

Course Objective: To impart hands-on practical exposure on manufacturing processes and equipment.

- 1. Design and making of pattern
 - i. Single piece pattern
 - ii. Split pattern
- 2. Sand properties testing
 - i. Sieve analysis (dry sand)
 - ii. Clay content test
 - iii. Moisture content test
 - iv. Strength test (Compression test & Shear test)
 - v. Permeability test
- 3. Mould preparation
 - i. Straight pipe
 - ii. Bent pipe
 - iii. Dumble
 - iv.Gear blank
- 4. Gas cutting and welding
- 5. Manual metal arc welding
 - i. Lap joint
 - ii. Butt joint
- 6. Injection Molding
- 7. Blow Molding
- 8. Simple models using sheet metal operations
- 9. Study of deep drawing and extrusion operations
- 10. Study of Basic powder compaction and sintering
- 11. Study of TIG/MIG Welding
- 12. Study of Resistance Spot Welding
- 13. Study of Brazing and soldering
- 14. Study of Plastic Moulding Process.