



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

KAKINADA – 524 002 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.