



ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Permanently Affiliated to JNTUK, Kakinada, Approved by AICTE, New Delhi

Recognized by UGC Under Section (2f) and 12(B) of UGC Act 1956

Aditya Nagar, ADB Road, Surampalem, 533437

Department of Mechanical Engineering

Project Title:	FABRICATION OF MULTIPURPOSE OPERATING MACHINE	
Guide Name:	Mr. CH RAMPRASAD	
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Abstract	PO's Mapping	PSO's Mapping
This machine is designed for the purpose of multi operations ie,, Drilling, Hacksaw Cutting and Grinding operations. This machine performs multipurpose operations at the same time with required speed and this machine is automatic which is controlled or operated by AC motor which is run with help of current. This machine is based on the mechanism of scotch yoke return. This model of the multi operational machine may be used in industries and domestic operations, which can perform mechanical operations like Drilling, Cutting and Grinding of a thin metallic as well as wooden model or body.	PO1, PO2, PO8, PO9, PO10, PO11	PSO2

PO1: Engineering Knowledge	PO5: Modern Tool usage	PO9: Individual & Team Work
PO2: Problem Analysis	PO6: Engineer & Society	PO10: Communication Skills
PO3: Design & Development of solutions	PO7: Environment & Sustainability	PO11: Project Management & Finance
PO4: Investigations on complex problems	PO8: Ethics	PO12: Life Long Learning
PSO1: Mechanical Engineers must be able to analyze, design and evaluate mechanical components and systems using cutting-edge software tools as required by the industries from time to time.	PSO2: The ability to work in manufacturing and other sectors' operations and maintenance plants	PSO3: As part of a team or individually, plan and manage activities in micro, small, medium and large enterprises

Relevance to PO's and PSO's

PO1	Applied the subject knowledge in calculation for design and systems
PO2	Studied and analysed existing machines for compatibility
PO8	Design specifications are followed with ethics
PO9	Team has fabricated the machine with coordination
PO10	Developed the communication with subsystems
PO11	Access of the operations in a single machine with limitations gives the managing skills.
PSO2	Maintenance of the engine and the sub systems done.

