Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by NAAC A⁺ & NBA)

Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that the project report entitled "PROTOTYPE OF COLOUR BASED SORTING SYSTEM.

USING GANTRY BASED PARALLEL LINK SERIAL MANIPULATOR" Submitted by

A KAUSHIK		19P31A0301
M GURU RA	GHAVENDRA	20P35A0332
M VINAY AK	HIL	20P35A0343
P SIDDARDH	IA KRISHNA	20P35A0312

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

Dr. T SRIHARI, M.Tech, Ph.D

Professor

Dept. of Mechanical Engineering

L JAYARAM KRISHNA

HEAD OF THE DEPARTMENT

20P35A0311

Dr. DANAIAH PULI, M. Tech. Ph.D.

Professor & Head

Dept. of Mechanical Engineering

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "PERFORMANCE STUDY ON EXAGONAL SOLAR STILL USING WICK MATERIALS" submitted by

SAKIB ALI		19P31A0313
BUDDARAJU AMAR	SIVA	20P35A0325
MOTHUKURI SRI H	ARI	20P35A0321
T.S. DURGA CHALA	PATHI	20P35A0331
KANTA VENKATA E	RAMANA	20P35A0326

In a partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

15 10912

Assistant Professor

Dept. of Mechanical Engineering

Head Of The Department

Dr. DANAIAH PULI, M. Tech, PhD

Professor & Head

Dept. of Mechanical Engineering

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "Automatic tire pressure inflation system" Submitted by

PINDIPROLU SURYA GANESH	19P31A0310
YELURI RAGHU NAVEEN KUMAR	20P35A0318
GUDE DEVENDRA KUMAR	20P35A0319
MAMIDI P D S R CH SAGAR PRABHU	20P35A0327
DEWARSHI KALITA	19P31A0305

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

Dr. P. GANGADHARA RAO, Ph.D.

·Associate Professor

Dept of Mechanical Engineering

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, M.Tech, Ph.D. Professor & Head Dept of Mechanical Engineering

(Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by NAAC) Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled

"EXPERIMENTAL INVESTIGATION ON THE EFFECT OF PINE OIL AS AN EMULSIFIER ON GASOLINE-ALCOHOL BLENDS IN MULTIPOINT FUEL INJECTION SI ENGINE"

Submitted by BANDARU ASHOK bearing Roll no: 19P31A0302, GEORGE MELANGTON bearing Roll no: 19P31A0306, SATYA SAI KUMAR bearing Roll no: 19P31A0308, SURYA MANIKANTA bearing Roll no: 19P31A0311, BURRA SATISH bearing Roll no: 20P35A0314 in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have been submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

HEAD OF THE DEPARTMENT

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the main project work entitled "INVESTIGATION ON MECHANICAL PROPERTIES AND CORROSION CHARACTERIZATION OF STIR CASTING LM13 ALUMINIUM ALLOY ZrB2-TIC PARTICULATE HYBRID COMPOSITES" being submitted by

KALLA TATAJI	20P35A0334
TUTTA CHANDRA MOHAN	20P35A0328
MAVUDURI NAGENDRA	20P35A0330
VANASETTI. V. DURGA PRASAD	20P35A0322

In a partial fulfilment of the requirement for the award of the B. Tech degree in Mechanical Engineering for the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

Project guide

Dr. N. STANLEY EBENEZER, M. Tech, Ph. D.

SURAKASULA SUDHEER

Assistant Professor

Dept of Mechanical Engineering

Head of the Department

19P31A0314

Dr. DANAIAH PULI, M. Tech, Ph.D.

Professor

Dept of Mechanical Engineering

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

the project report entitled VISION BASED INVERSE KINEMATICS OF being submitted by

D.YASWANTH SAI KIRAN	20P35A0316
K. VENKATESWARA RAO	20P35A0308
G. MURALI KRISHNA	20P35A0307
G. ARAVIND	20P35A0306

 G. ARAVIND
 20P35A0306

 N. DURGA RAO
 20P35A0310

during the academic year 2022-2023. The results embodied in this project report have submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

ELVVM J SATISH, M.Tech, Ph.D

Professor

Mechanical Engineering

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, M.Tech, Ph.D

Professor & Head

Dept. of Mechanical Engineering

ADITYA COLLEG OF ENGINEERING&TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "DESIGN & FABRICATION OF FOLDABLE E-BICYCLE" Submitted by

PENKE DEVI PRASAD	19P31A0309
SAKAMURI RAVINDRA NAGA PRASAD	19P31A0312
SK JAFEER AHMED	20P35A0302
B KARTEEK DAMODHAR RAO	20P35A0335
G SATYA CHANDRA NAGA SAI RAM	20P35A0336

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

Mr. M. RAMBABU, M.Tech Assistant Professor Dept of Mechanical Engineering HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, M.Tech, P.hD. Professor & Head Dept of Mechanical Engineering

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "FABRICATION OF POWER GENERATION USING SHOCK ABSORBER" submitted by

J.S. SIVA KUMAR	20P35A0320
V.K.N. VENKATA SAI	20P35A0303
K. GOVINDHA	20P35A0324
M. DURGA PRASAD	20P35A0333
K. PAVAN KUMAR	20P35A0305

In a partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

Project Guide

Mr.CH.RAM PRASAD M.S., M.Tech

Assistant Professor

Dept. of Mechanical Engineering

Dr. DANAIAH PULI, M. Tech, Ph.D

Professor & Head

Dept. of Mechanical Engineering

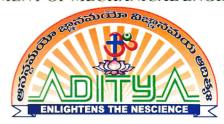
(Permanently Affiliated To JNTUK, Approved By AICTE New Delhi, Accredited by NBA & NAAC A+&NBA)

Recognized By UGC Under Section 2(F) and 12(B) of UGC Act 1956,

Surampalem,

East Godavari-II.Dist., AP-533437 2022-2023

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "Performance and Emission Control testing of the fuel-alcohol-additive mixture using in spark ignition engines"

Submitted by

MAGA JAYESH	20P35A0309
VEDURUVADA BALAJI	20P35A0304
PODUGU DHRMATEJA	20P35A0301
ADABALA SUNIL KUMAR	20P35A0329
KARIPIREDDY NAGESWARA RAO	20P35A0313

m partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of

PROJECT GUIDE

Dr. DANAIAH PULI, M.Tech, Ph.D. M.Tech, Ph.D. Professor & Head

Dept. of Mechanical Engineering

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, Professor & Head

Dept. of Mechanical Engineering

(Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by **NAAC A**⁺ **& NBA**) Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533437

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "Design, analysis and fabrication of portable pneumatic vice" Submitted by

A. PRAKASH	20P35A0358
N. NAGA SURESH	20P35A0355
T. M N V BRAHMARAJU	20P35A0384
Y. MAHESH BABU	20P35A0338
K. SAJEEVREDDY	20P35A0367

Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

HEAD OF THE DEPARTMENT

(Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by NAAC A* & NBA)

Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that the project report entitled "DESIGNING PROTOTYPE OF OMNI DIRECTIONAL WHEEL BASED ROBOT IMPLEMENTING PATH PLANNING ON THE OCCUPANCY GRID MAP" Submitted by

V VENKATESH	20P35A0350
T RAJESH	20P35A0339
S NAGA VAMSI	20P35A0346
B VINAY KUMAR	20P35A0365
CH S V ATCHUTH	20P35A0374

pertial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2023. The results embodied in this report have not been submitted to any other institute or University for the award of any or diploma.

PROJECT GUIDE

Mr. P JAI KISAN, M. Tech

Assistant professor

Dept of Mechanical Engineering

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, M, Tech, PhD

Professor & Head

Dept. of Mechanical Engineering

EXTERNAL EXAMINER

ii

(Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by **NAAC A**⁺ & **NBA**)

Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that the project report entitled "3D PROTOTYPE OF A LOW-COST SPHERICAL PARALLEL MANIPULATOR" Submitted by

S RAVI CHANDRA	20P35A0389
P VASU DEVA	20P35A0357
T V V SAI KRISHNA	20P35A0364
B UDAY KIRAN	20P35A0376

CH THARUN CHAKRAVARTHY 20P35A0375

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

Mr. A CHIRANJEEVI V S PRASAD, M.Tech

Assistant professor

Dept. of Mechanical Engineering

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI

Professor & Head

Dept. of Mechanical Engineering

(Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by NAAC) Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "FABRICATION OF AIR CONDITIONING CUM WATER DISPENSER SYSTEM WITH THERMOSTAT" Submitted by

RAJANA SIVA	20P35A0381
BODDEDA SAI GANESH	20P35A0380
NEELAPU LOK SATHISH	20P35A0386
CHITROTHU J. S.PRASAD	20P35A0370
DASARI MOHAN	20P35A0377

In partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

Mr. V. SIVA NAGI REDDY

Assistant professor

Dept. of Mechanical Engineering

Dr. DANAIAH PULI

Professor

Dept. of Mechanical Engineering

Date:

Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by NAAC)Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that the project report entitled "Design Modification And Simulation Of Acoustic Refrigerator" Submitted by

S SANDEEP LAKSHMAN KUMAR	20P35A0387
B VIJAY KANTH	20P35A0340
A MAHESH	20P35A0341
V SUNEEL	20P35A0368
B SRINU	20P35A0371

during the academic year 2022-2023. The results embodied in this project report have not any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

M. ABDUL ARIF, M.Tech, (Ph.D)

Assistant professor

Dept. of Mechanical Engineering

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI

Professor & Head

Dept. of Mechanical Engineering

(Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by NAAC) Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that the project report entitled "Iot Based Gas Leakage Detector" Submitted by

JYOTHULA RAJESH	20P35A0356
MAGAPATI SURESH	20P35A0349
GANISETTI ANIL KUMAR	20P35A0354
KANURI ATCHYUTHA LAKSHMI MOHITH	20P35A0362
KURRA VINAY KUMAR	20P35A0369

in partial fulfillment of requirement for the award of Bachelor of Technology degree in **Mechanical Engineering** during the academic year **2020-2023**. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

Ms. A SWATHI, M. Tech

Assistant professor

Dept. of Mechanical Engineering

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI

Professor & Head

Dept. of Mechanical Engineering

ADITYA COLLEGE OF ENGINEERING &TECHNOLOGY (Approved by AICTE, Affiliated to JNTUK, Accredited by NAAC)

Recognized by UGC under section 2(f) of UGC Act 1956

Surampalem-533437
2022-2023
DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the Final Year Project report entitled "Thermo Electric Refrigerator" submitted by

B.N.V.V. MANI	20P35A0378
CH. NAVEEN	20P35A0352
K. BHANU PRAKASH	20P35A0372
P.SAI KUMAR	20P35A0382
K.SAI SOMA SEKHAR	20P35A0385

Submitted in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

Under the Guidance of WIL

SVA SATHYA MOHAN (Associate professor)

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, (MTech, Ph.D)

PROFESSOR & HEAD

Dept. of Mechanical Engineering

Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by **NAAC** A⁺ & **NBA**)

Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



The same certify that the project report entitled "Design and Fabrication of Solar-Operated Automatic Hammering Machine" Submitted by

SHAIK MEERA SUBHAN	20P35A0373
A RAMA DURGA MAHESH	20P35A0383
PAMPANA NAVEEN KUMAR	20P35A0343
KALLA UMA MAHESH	20P35A0361
SUNKRA DORA BABU	20P35A0388

Engineering during the academic year 2020-2023. The results embodied in this project report have a submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

Mr. GWS SRINIVAS, M.Tech

Assistant professor

Dept. of Mechanical Engineering

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI

Professor & Head

Dept. of Mechanical Engineering

Permanently Affiliated to JNTUK, Approved by AICTE New Delhi, Accredited by NBA & NAAC A⁺

Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP − 533 437.



CERTIFICATE

This is to certify that the project work entitled "ENHANCEMENT OF HEAT TRANSFER THROUGH PLATE FINS" submitted by

KOPPIREDDY NANI (20P35A0344)

MATHURTHI SANDEEP (20P35A0342)

JAVVADI ADITHYA VARDHAN (20P35A0347)

KARANAM LEELASHANKAR (20P35A0345)

PUROHITH BHARATH KUMAR (20P35A0363)

In partial fulfilment for the award of degree of Bachelor of Technology degree in Mechanical Engineering during 2022-2023. The results embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

PROJECT GUIDE

HEAD OF THE DEPARTMENT

Mr. K. Vijay

Dr. DANAIAH PULI

Assistant Professor

Professor

Affiliated to JNTUK, Approved by AICTE, Accredited by NAAC)Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that the project report entitled "Design and Structural analysis of wind turbine blade using different materials (S-Glass, E-Glass, Epoxy Carbon, Armid, Graphene)" Submitted by

V. HARI KUMAR	20P35A03A0
U. VINESH	20P35A03B5
N. NAGA BALA HARI	20P35A0399
P. AVINASH	20P35A03C1
R. NAVEEN KUMAR	20P35A03C4

Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE:

Mr. RATNALA PRASAD, MTech

Assistant professor

Mechanical Engineering Department

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, MTech, Ph.D.

(NIT Warangal)

Professor & Head

Mechanical Engineering Department

(Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by **NAAC A**⁺ & **NBA**)

Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP − 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that the project report entitled "DESIGNING PROTOTYPE OF OMNI DIRECTIONAL WHEEL BASED ROBOT IMPLEMENTING PATH PLANNING ON THE OCCUPANCY GRID MAP"

Submitted by

PALLI KUMAR	20P35A0395
TADI SRINU	20P35A03C2
PATTAPAGALU V V MOHAN KRISHNA	20P35A03B0
KETA DURGA MAHESH	20P35A03C5
BANGARI SURYA	20P35A0390

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

Mr. V.S SURYA PRAKASH, M.E. (Ph.D)

Assistant Professor

Dept. of Mechanical Engineering

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, M.Tech.Ph.D.

Professor & Head

Dept. of Mechanical Engineering

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the main project work entitled "MICROSTRUCTURE, MECHANICAL AND CORROSION BEHAVIOUR OF A356 REINFORCED WITH RICE HUSK ASH AND EGG SHELL ASH"

being submitted by

PEKETI RAJESH	20P35A03D7
T G S S V RAMANUJAM	20P35A0392
MUTYALA DURGA PRASAD	20P35A03A1
M S MANIKANTA REDDY	20P35A03B8
PALLI TIRUPATHI RAO	20P35A03D9

In a partial fulfilment of the requirement for the award of the B. Tech degree in Mechanical Engineering for the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

Project guide

A LILE THE

Mass A. L. JYOTHI, M. Tech, (Ph. D)

Assistant Professor

Dept of Mechanical Engineering

Head of the Department

Dr. DANAIAH PULI, M. Tech, Ph.D

Professor

Dept of Mechanical Engineering

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "INFLUENCE OF NANO COATE WICK MATERIALS ON PRODUCTIVITY OF HEXAGONAL SOLAR STILL" submitted by

KOSANA MANIKANTA	20P35A03C7
KODI B N S HARI PRASAD	20P35A03B3
TUTTA SUBRAHMANYA SWAMI	20P35A03C8
KARANAM VAMSI	20P35A03D6
PANCHADA NAIDII BARII	20P35A03D5

In a partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

Project Guide

Mr. ABDUL ARIF, M Tech Ph.D.

Assistant Professor

Dept. of Mechanical Engineering

Dr. DANAIAH PULI, M Tech, Ph.D

Associate Professor & Head

Dept. of Mechanical Engineering



CERTIFICATE

This is to certify that the project report entitled "DUAL AXIS VEHICLE STEERING MECHANISM" submitted by

GURRALA ASHOK	20P35A03A3
PADALA SUBRAHMANYAM	20P35A0393
MATTA MOHAN	20P35A0391
MODI TEJA	20P35A03D2
VALLURI MANOHAR	20P35A03D8

In a partial fulfillment of requirement for the award of Bachelor of Technology Mechanical Engineering during the academic year 2022-2023. The results in this project report have not been submitted to any other institute or for the award of any degree or diploma.

Mr. TS SAGAR, M. Tech

Amssunt Professor

Mechanical Engineering

Dr. DANAIAH PULI, M. Tech, PhD

Professor & Head

Dept. of Mechanical Engineering

(Approved by AICTE, Affiliated to JNTUK, Accredited by NBA & NAAC with A+) Recognized by UGC under section 2(f) of UGC Act 1956, Surampalem-533437

2022-2023

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "Performance and Emission Control testing of the Fuel-Ethanol-Additive mixture using in spark ignition engines." Submitted by

CHINTHAKRINDA RAM PRASAD	20P35A03C9
KUDULLA JAGANMOHANA RAGHAVA RAJESH	20P35A03A9
DONI VINAY	20P35A03B9
SENAPATHI VAMSI	20P35A03D3
GATTI CHANDRA SEKHAR	20P35A0396

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

Dr. DANAIAH PULI, M.Tech, Ph.D

Professor & Head

Dept. of Mechanical Engineering

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, M.Tech, Ph.D

Professor & Head

Dept. of Mechanical Engineering

M

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the main project work entitled "FABRICATION AND TESTING OF MECHANICALLY OPERATED FLOOR CLEANING MACHINE." being submitted by

NAKKA	SIVA	MANIKANTA	20P35A03A4

YANDAPALLI MANI KUMAR	20P35A03C6
-----------------------	------------

SIVAGIRI NARASIMHA 20P35A03B4

SENAPATHI CHANDU 20P35A0397

GANDREDI VEERABABU 20P35A03D0

a partial fulfilment of the requirement for the award of the B. Tech degree in Mechanical Engineering the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

PROJECT GUIDE

Dr. P. GANGADHARA RAO, M Tech, Ph.D.,

Associate Professor

Dept. of mechanical engineering

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, M. Tech, Ph.D.,

Associate Professor

Dept. of mechanical engineering

Permanently Affiliated to JNTUK, Approved by AICTE New Delhi, Accredited by NBA & NAAC A⁺

Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533 437.



CERTIFICATE

This is to certify that the project work entitled "ENHANCEMENT OF HEAT TRANSFER THROUGH PLATE FINS" submitted by

NEELAM GANGADHARA GANNIBABU	20P35A03A6
SAPPATHI HEMA SUMANTH	20P35A03C3
VINUKONDA VENKATA DURGA PRASAD	20P35A03A2
MARRIVADA VINAY REDDY	20P35A03A7
PANDADII TEIA SRI SAI	20P35A03C0

In partial fulfilment for the award of degree of Bachelor of Technology degree in Mechanical Engineering during 2022-2023. The results embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

Project Guide

Dr

Head of the Department

Mr. K. Vijay M. Tech., PHD

Dr. DANAIAH PULI, M.Tech., PHD

Associate Professor

Professor & Head

Dept. of Mechanical Engineering, ACET

Dept. of Mechanical Engineering, ACET

(Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by NAAC)
Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist., AP – 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that the project report entitled "STUDY AND

EXPERIMENTATION OF VOICE CONTROLLED MOTORIZED SCREW

JACK-A Prototype Model "Submitted by

KARRI VENKATESH 20P35A03A8 KAJULURI NAVEEN KUMAR 20P35A0394

LOKARPU SAIBABA 20P35A03B6

AVALA LOKESH 20P35A03B7

degree in Mechanical Engineering during the academic year 2022-2023. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

PROJECTGUIDE

LPVS MURALI KRISHNA

Se Assistant Professor, M. Tech, (Ph.D)

Dept. of Mechanical Engineering

ACET

HEADOFTHEDEPARTMENT

Dr. DANAIAH PULI

Professor & Head, M.Tech, Ph.D

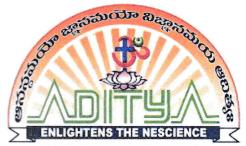
Dept. of Mechanical Engineering

ACET

Recognized by UGC under section 2(f) and 12(B) of UGC Act 1956.

Surampalem, E.G. Dist.-II., AP – 533 437.

DEPARTMENT OF MECHANICAL ENGINEERING



This is the carrier that the project report entitled "Study and Simulation of Vortex Tube Based on Minor

Stape of Control Valve and Inlet Nozzle Shapes" Submitted by

V. KISHORE VARMA	20P35A0398
K. CHAITANYA RAJU	20P35A03B2
B. J. LAKSHMANA RAO	20P35A03A5
D. ABHAY VENKATESH	20P35A03B1
M. VINAY KUMAR	20P35A03D4
M.K. SAI LAKSHMAN	20P35A03D1

Engineering during the academic year 2022-2023. The results embodied in this project report have most been submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

ME CH PAVAN KUMAR M.Tech

Assistant Professor

Dept. of Mechanical Engineering

NOTE THE

HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI MTech, Ph.D

Professor & Head

Dept. of Mechanical Engineering

ACET

EXTERNAL EXAMINER

ii