

ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY

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

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

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project entitled “**Corrosion Behavior of Ni Coated Aluminium Reinforced With Coconut Shell Ash Composites**” is being submitted by

PADALA VEERABHADRAM
VULAVAKAYALA DATTA
VALLAPUSETTI RAMAKRISHNA
MYDU VENKATA SUMANTH
KALAHASTI TEJA

18P35A0363
17P31A0336
17P31A0335
18P35A0358
18P35A0338

In partial fulfillment of the requirements for the award of Bachelor of Technology in Mechanical Engineering, during the academic year 2020-2021. The results embodied in this report have not been submitted to any other institute or university for the award of any degree.

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

Assistant Professor

Project Guide

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

Associate Professor & Head

Head of the Department

EXTERNAL EXAMINER

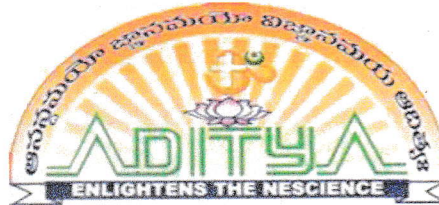
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Surampalem East Godavari District 533437

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that this project report entitled
**“DESIGN AND ANALYSIS OF AQUA FEED SPRAYER FOR EASY
FORMING”**
Submitted by

M.SAIGANESH	18P35A0350
S.S. PAVAN SAIRAM	17P31A0332
M.SUNIL	18P35A0348
J. LOKESH	18P35A0336
G.MANIKANTHA	18P35A0335

In partial fulfillment of requirements for the award of bachelor of technology degree in Mechanical Engineering during the Academic year 2020-2021. 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.

R. S. M. Jyoti
MS. R.S.M. JYOTHI, M.Tech.

Assistant professor
PROJECT GUIDE
Mechanical Engineering Dept.,

R. Danaiah Pulli
Dr. DANAIAH PULLI, M.Tech., Ph.D.

Associate professor & Head
HEAD OF THE DEPARTMENT
Mechanical Engineering Dept.,

[Signature]
EXTERNAL EXAMINER

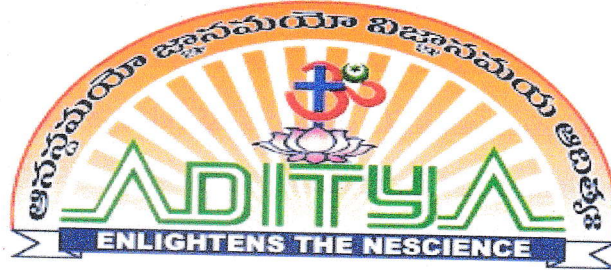
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled **“DESIGN AND FABRICATION OF CONTACTLESS BRAKING SYSTEM”** Submitted by

K .SANTHOSH	18P35A0341
K .BHASKARA RAO	17P31A0353
G .MANIDHAR	18P35A0333
I .SATHIRAJU	17P31A0350
K .AMAR SAI TEJA	17P31A0355

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year **2020-2021**. 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.SRINIVAS M.Tech.

Assistant Professor

Mechanical Engineering Department

M/Srinivas
22/7/21

HEAD OF THE DEPARTMENT

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

Associate Professor & HEAD

Mechanical Engineering Department

D.Danaiah Puli
22/07/21

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EXTERNAL EXAMINER

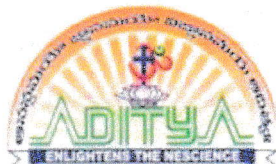
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Surampalem, East Godavari, A.P – 533437

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project entitled “**CHARACTERIZATION OF GLASS FIBER REINFORCED POLYMER COMPOSITE PREPARED BY HAND LAYUP METHOD**”

Submitted by

K. SRINU	(18P35A0339)
T. DHANESH	(17P31A0333)
L. SOMA RAJU	(18P35A0347)
Y. DEVI SHANKAR	(18P35A0364)
M. MURALI KRISHNA	(18P35A0352)
G. KIRAN SAI	(17P31A0348)

In partial fulfilment of the requirement for the award of Bachelor of Technology in Mechanical Engineering, during the academic year 2017-2021 The results embodied in this report have not been submitted to any other institute or university for the award of any degree.


Project Guide

Mr. K. Suribabu, M. Tech

Assistant professor

Mechanical Engineering Department

Aditya College of Engineering & Technology



Head of the Department

Dr. Danaiah Puli, M. Tech, Ph. D

Associate professor

Mechanical Engineering Department

Aditya College of Engineering & Technology



External Examiner

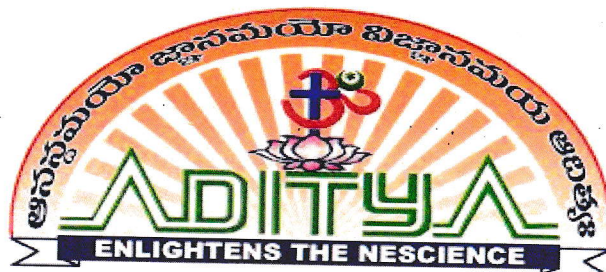
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “**DESIGN AND PROTOTYPE OF SMART MATERIAL HANDLING SYSTEM**” Submitted by

18P35A0367

18P35A0368

18P35A0377

18P35A0366

P. LIKITH

P. PAVAN SURYA

P. S V S GIREESH KUMAR

P. MAHESH BABU

In partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year **2020-2021**. 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

Assistant professor

Mechanical Engineering Department

HEAD OF THE DEPARTMENT

Dr. Danaiah Puli, M.Tech, Ph.D.

Associate professor & Head

Mechanical Engineering Department

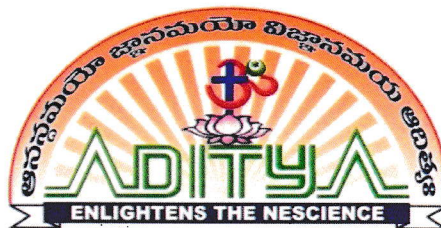
EXTERNAL EXAMINER

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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project entitled “**DESIGN AND PROTOTYPE OF SMART HOISTED DELTA PICK AND PLACE ROBOT**” submitted by

SHAIK DARWESH	(18P35A0385)
SAKA VEERA SHANKAR	(18P35A0380)
PAKKURTHI L N V KALYAN	(18P35A0365)
TELU PRASAD KUMAR	(18P35A0389)

In partial fulfilment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year **2020-2021**. 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. P. JAI KISHAN, M. Tech,

Assistant Professor

Mechanical Engineering Department


HEAD OF THE DEPARTMENT

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

Associate Professor & Head

Mechanical Engineering Department


External examiner

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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “DESIGN AND ANALYSIS OF WINDMILL OPERATED WATER PUMP WITH TWO DIFFERENT AIRFOILS” Submitted by

PANGA YESU

18P35A0369

KOTIPALLI VIJAYA KUMAR

18P35A0396

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TURPATI LOKESH ARUN KUMAR

18P35A0394

SIRIKI RAJESH BABU

16A91A0381

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2021. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree.


PROJECT GUIDE

Mr. CH RAMPRASAD M. S

Sr. Assistant Professor

Mechanical Engineering Department


HEAD OF THE DEPARTMENT

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

Associate Professor & Head

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EXTERNAL EXAMINER

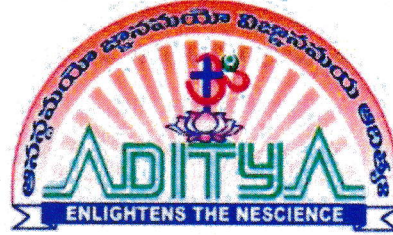
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2020-2021

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project entitled “**DESIGN AND STRUCTURAL ANALYSIS OF HYBRID TWO-WHEELER BIKE**” is being submitted by

PALLAPU RAMU

(17P31A0367)

TANETI PRUDHVI RAJU

(18P35A0387)

PERUMAALLA NAGA DURGA GANESH

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SUNKARA GANGADHAR

(17P31A0372)

TOTTALA ANIL KUMAR

(18P35A0393)

in partial fulfillment of the requirement for the award of Bachelor of Technology in Mechanical Engineering, during the academic year 2020-2021. The results embodied in this report have not been submitted to any other institute or university for the award of any degree.

PROJECT GUIDE

Dr. V V M J SATISH CHEMBULY M. Tech, Ph. D

Assistant Professor

Mechanical Engineering Department

HEAD OF THE DEPARTMENT

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Associate Professor & Head

Mechanical Engineering Department

EXTERNAL EXAMINER

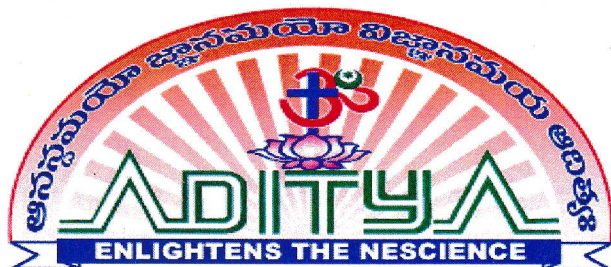
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “FABRICATION OF ELECTROMAGNETIC BRAKING SYSTEM” Submitted by

P. VENKAT SRIRAM	18P35A0370
T. NAGA NANAJI	18P35A0388
T. SANDEEP	18P35A0392
B. ADITYA NAGA SANTHOSH	17P31A0378
L. RAMANJI	17P31A0359

In partial fulfilment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2021. 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. N. Chaitanya Krishna, M.Tech

Assistant professor

Mechanical Engineering Department


HEAD OF THE DEPARTMENT

Dr. Danaiah Puli, M.Tech., Ph.D.

Associate professor & Head

Mechanical Engineering Department


EXTERNAL EXAMINER

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Surampalem East Godavari District 533437

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that this project report entitled

“CFD ANALYSIS OF SOLAR FLAT PLATE COLLECTOR”

Submitted by

R.RAGHU RAM	18P35A0379
SARISE.SRINIVAS	18P35A0382
PERLA. SATISH	18P35A0373
P.N.S SWAMY	17P31A0370
B.S.P.K YADAV	17P31A0377

In partial fulfillment of requirements for the award of bachelor of technology degree in Mechanical Engineering during the Academic year 2020-2021. 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. P. V. S MURALI KRISHNA
M.Tech., (Ph.D)

Sr.Assistant Professor
PROJECT GUIDE


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

Associate Professor
HEAD OF THE DEPARTMENT


EXTERNAL EXAMINER

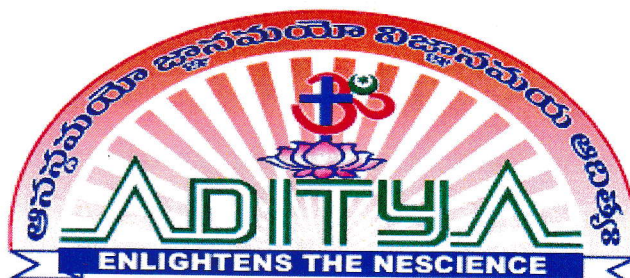
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MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “**DESIGN AND ANALYSIS OF CONVERTABLE WHEEL CHAIR TO SLEEPING BED**” Submitted by

G. SANJAY SIVARAM	17P31A0382
P. VERA BABU	18P35A0372
D. SIVA LAKSHMAN RAJU	17P31A0381
I. SURYA	16A91A03D9
U. SAI	18P35A0395

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year **2020-2021**. 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. T. SRIRAMA SAGAR, M. Tech

Assistant professor

Mechanical Engineering Department

HEAD OF THE DEPARTMENT

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

Associate professor & Head
Mechanical Engineering Department
Surampalem, E.G. Dist., AP – 533 437

EXTERNAL EXAMINER

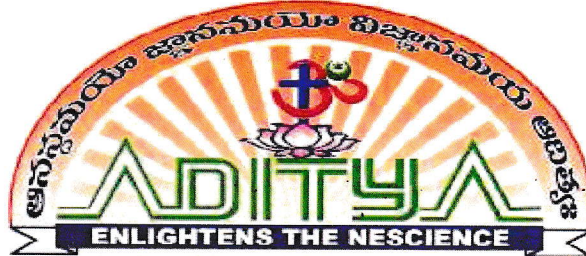
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that this project report entitled

“THERMAL ANALYSIS OF THE GAS TURBINE ROTOR BLADE”

S.SAI KUMAR

18P35A0386

N.PAPARAO

17P31A0362

S.VENKATA CHARAN

18P35A0383

DEEPAK KUMAR YADAV

17P31A0380

N.SESHA MANIKANTA

17P31A0363

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2021. 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.K.SIVA SATYA MOHAN,

M.Tech.,Ph.D

Associate professor

Mechanical Engineering Department


HEAD OF THE DEPARTMENT

Dr.DANAIAH PULI

M.Tech.,Ph.D

Associate professor

Mechanical Engineering Department


EXTERNAL EXAMINER

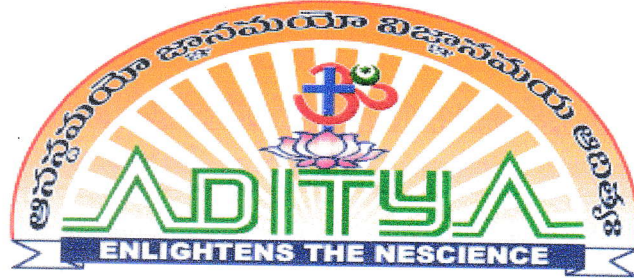
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MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “**DESIGN AND ANALYSIS ON SUSPENSION SYSTEM OF A HYBRID TWO WHEELER BIKE**” Submitted byin partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year **2020-2021**.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.

G. Raju 19/7/21
PROJECT GUIDE

Mr.G.RAJU, M.Tech
Assistant Professor
Mechanical Engineering Department

D. Danaiah Puli 19/7/21
HEAD OF THE DEPARTMENT

Dr.DANAIAH PULI, M.Tech, Ph.D
Associate Professor & Head
Mechanical Engineering Department

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EXTERNAL EXAMINER

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Surampalem, E.G. Dist., AP – 533437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “PERFORMANCE AND EMISSION CHARACTERISTICS OF SI ENGINE BY USING OXYGENATED ADDITIVES BY VARYING LOAD AT DIFFERENT SPEEDS” Submitted by

P. PRABHU TEJA	18P35A0378
T. MOHAN KRISHNA	18P35A0390
B. HARISH	16P31A03B0
S. SIVA	17P31A0371
B. RAJSEKHAR	17P31A0376

In partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2021. 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. V. SIVA NAGI REDDY M.Tech.
Assistant Professor
Mechanical Engineering Department

Dr. DANAI AH PULI, M.Tech, Ph.D.
Associate Professor & Head
Mechanical Engineering Department


EXTERNAL EXAMINER

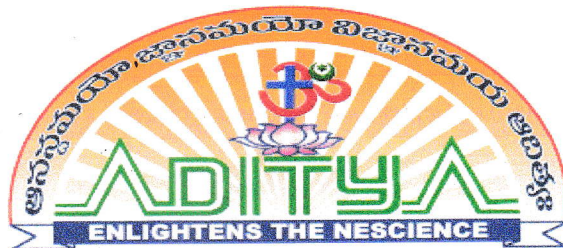
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Surampalem, E.G. Dist., AP – 533 437

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “An Investigation of Friction Stir Welding Process Parameters for Joining AL-LI Alloys”

Submitted by

S. GOPALA KRISHNA	18P35A0381
NISHANT DEEP	17P31A0366
V. SRIDHAR	17P31A0369
MD. SHAHID IQBQL	17P31A0361
T.G.S.N.VARA PRASAD	17P31A0373

In partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2021. 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.

Pramod Kumar
PROJECT GUIDE

Dr. PRAMOD KUMAR, M.Tech, Ph.D.

Assistant Professor

Mechanical Engineering Department

P. Danaiah PulI
HEAD OF THE DEPARTMENT

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Associate Professor & Head

Mechanical Engineering Department

[Signature]
EXTERNAL EXAMINER

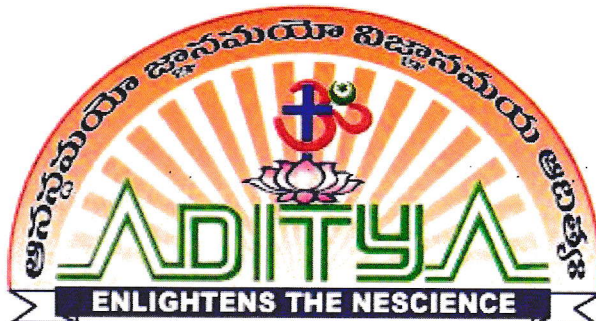
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “PERFORMANCE ANALYSIS OF A VCR ENGINE FOR VARIOUS PISTON DESIGNS AND CONFIGURATIONS” Submitted by

N V S SATYA SRIKAR

17P31A0365

K SAI MANOJ

17P31A0385

M VENKATA REDDY

17P31A0360

N RAM KALYAN

17P31A0364

K KAMESH KUMAR

17P31A0358

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2021. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree.


PROJECT GUIDE

Ms. A SWATHI, M. Tech

Assistant Professor

Mechanical Engineering Department


HEAD OF THE DEPARTMENT

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

Associate Professor & Head

Mechanical Engineering Department


EXTERNAL EXAMINER

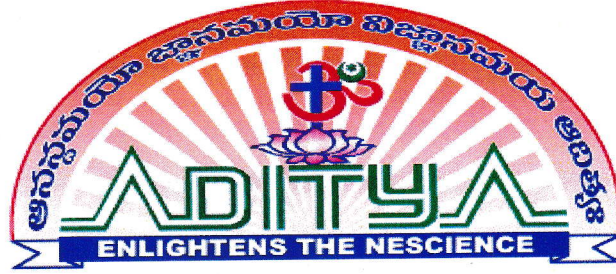
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MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled "DESIGN AND ANALYSIS OF ELECTRIC BIKE"
Submitted by

V. E.S. NAGABHUSHANAM	17P31A03A9
P. SOMASEKHAR	17P31A0399
K.C.D. PRASAD	17P31A0386
T. VENKATA SAI	17P31A03A5
K. VEERA SATISH	17P31A0389
Y. CHINA VEERAJU	17P31A03B3

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year **2020-2021**. 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. K. VIJAY, M.Tech.

Assistant professor
Mechanical Engineering Department

HEAD OF THE DEPARTMENT


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

Associate professor & Head
Mechanical Engineering Department


EXTERNAL EXAMINER

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MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “STUDY ON USE OF RADIANT ENERGY WELDING PROCESSES IN DEFENCE AND SPACE APPLICATIONS” Submitted by

T.LAKSHMI GANESH	18P35A03C5
V.DURGA PRASAD	18P35A03A6
A.NAGA VARUN	17P31A03B4
Y.VINEETH KUMAR	18P35A03B1
T.SIVA MANIKANTA	17P31A03A6
K.NAVEEN KUMAR	17P31A0390

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2021. 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 Ph.D. (IIT DELHI)

Professor

Mechanical Engineering Department

HEAD OF THE DEPARTMENT

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

Associate Professor & Head

Mechanical Engineering Department

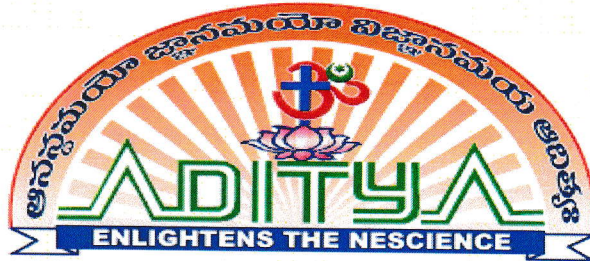
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Surampalem, E.G. Dist., AP – 533 437.



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled “DESIGN AND 3D PROTOTYPING OF HORIZONTAL TURBINE - IOT BASED TESTING”. Submitted by

BIBEK KUMAR KARNA	17P31A03B6
TELU SIVA SANKAR	18P35A0399
TEPPALA SAI AMAN	18P35A03C4
DASARI SUBRAHMANYAM	18P35A0398
KAMIREDDY CHIRANJEEVI	16P31A03E1

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2021. 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. AKHILESH KUMAR SINGH

Associate Professor

Mechanical Engineering Department


HEAD OF THE DEPARTMENT

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Associate Professor & Head

Mechanical Engineering Department


EXTERNAL EXAMINER

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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “**DESIGN AND ANALYSIS OF OMNIBALL SPHERICALWHEEL ROBOT**” Submitted by

Y.SATISH KUMAR	(17P31A03B2)
M.PRAVEEN KUMAR	(18P35A03C6)
M.SAMUDRA SWAMY	(18P35A03B8)
U.SRINU	(18P35A03A1)
V.SATYA SAI	(17P31A03A4)
V. GABRIEL	(16A91A0343)

in partial fulfilment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year **2020-2021**. 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
Assistant professor


HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, M.Tech, Ph.D
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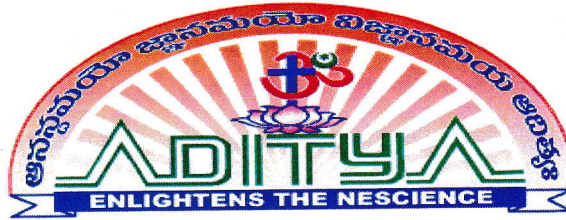
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MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled **“FABRICATION OF FRICTIONLESS ELECTROMAGNETIC BRAKING SYSTEM**

Submitted by

B.LOKESH	18P35A03C0
N.PHANI SAESWAR	18P35A03C2
K.SAIKOTI	18P35A03B6
C.VEERATEJA	18P35A03C9
V.GYANENDRA	17P31A03B0

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year **2020-2021**. 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

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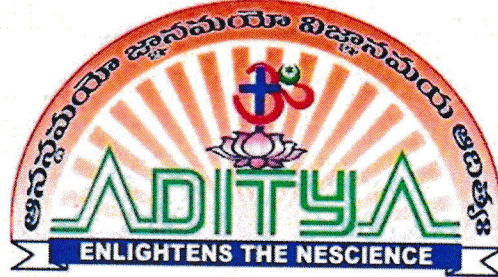
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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled “**Design and Simulation of Vortex Tube with Different Conical Control Valves**” Submitted by

Y.DHANRAJ

18P35A03B0

Y. SRINUBABU

18P35A03A9

K. SUBASH

18P35A03B9

M. BHARATH CHANDRA

18P35A03C1

V. SAI SANJAY PRATAP

18P35A03A2

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2021. 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

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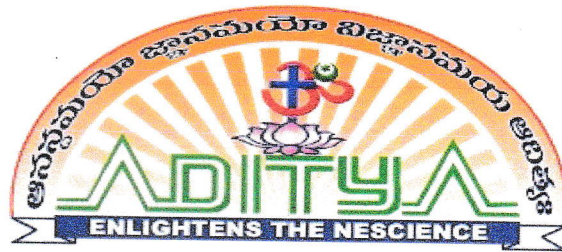
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MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “MONITORING AND DETECTION OF VEHICLE EMISSION”

Submitted by

U. VINAY CHOWDARY

18P35A03A0

S.SAI KUMAR

17P31A03A3

P. CHANDRA SEKHAR

18P35A03B5

A.L.N ESWAR PRASAD

18P35A0397

K. VENKATA KISHORE

17P31A0388

In partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2021. 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

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Dr. Dhaniah Puli

Dr. Dhaniah Puli, M.Tech, Ph.D

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[Signature]
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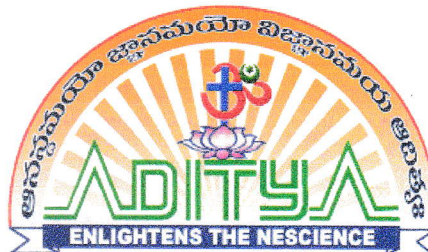
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Surampalem, E.G. Dist., AP – 533 437.

(2020-2021)

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “**IMPROVING PRODUCTIVITY OF DOUBLE SLOPE SOLAR STILL USING NANO COATED BASIN MATERIALS**” Submitted by

NAKKA SWAPNA	18P35A03B3
PONNAMANDA RAJU	18P35A03C7
NAGIREDDY NAGENDRA	17P31A0393
P UMAMAHESWARAO	18P35A03B2
NATTE PRASAD	17P31A0398
NARRA VENUGOPAL	17P31A0397

In partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year **2020-2021**. 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

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MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “**DESIGN AND FABRICATRIION OF PHASE CHANGE MATERIAL AIR COOLER**” Submitted by

1.S SIVA PRASAD

18P35A03B7

2.L SAIRAM

18P35A03C8

3.N S SATYA KRISHNA

17P31A0396

4.V A S K M SRINIVAS

17P31A03A7

5.M WILLSON

17P31A0391

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year **2020-2021**. 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.

N Venkatesh
PROJECT GUIDE

Mr. N VENKATESH M.Tech;

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D. Danaiahpuli
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “OPTIMIZATION OF DESIGN AND STATIC THERMAL ANALYSIS OF DISC ROTOR USING FINITE ELEMENT METHOD”
Submitted by

V. SATYA	18P35A03A3
Y. SAI RAJU	18P35A03A8
V.RAVI TEJA	17P31A03A8
P. SYAM PRASAD	17P31A03A0
K. RAVI CHARADHAR	17P31A0387

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PROJECT GUIDE

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MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled **“EXPERIMENTAL STUDIES ON THE EFFECT OF OXYGENATED ADDITIVES ON SPARK IGNITION ENGINE”** Submitted by

P.RAMA MANIKANTA	18P35A03B4
V.SAI KOUSIK	18P35A03A5
V.SAMPATH NIKHIL SAI	18P35A03A7
N.SAI PRASANTH	17P31A0395
P.AKHILESH	17P31A03A2
Y.NAVEEN JAYDEV	17P31A03B1

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2020-2021. 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.


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