

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY Permanently
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by UGC under section 2(f) of the UGC Act 1956
Aditya Nagar, ADB Road, Surampalem -533437
2017 – 2021

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project entitled “Design and Analysis of Valve gear mechanism Using Finite element analysis” is being submitted by

BURRI SIVA	17P31A0309
NAGAM SATISH.	17P31A0325
DUDALA SURESH.	17P31A0312
MUHAMMED ASIN HIJAN	17P31A0324
K J D V KRISHNA	17P31A0318

In partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, during the academic year 2017-2021. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.

PROJECT GUIDE

Mr.A CHIRANJEEVI V S PRASAD.,M.Tech
Sr.Assistant Professor
Mechanical Engg. Department

HEAD OF THE DEPARTMENT

Dr.P DANAI AH., M.Tech,Ph.D
Associate Professor&Head
Mechanical Engg. Department

EXTERNAL EXAMINER

**ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY
SURAMPALEM**

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UGC under section 2(f) of UGC Act 1956
Aditya Nagar, ADB Road,
Surampalem - 533437

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This to certify that the project entitled **"MODELLING AND IMPLEMENTATION
OF DUAL AXIS SOLAR TRACKING SYSTEM"** is submitted by

CHINTALA JAGADEESH	(18P35A0316)
GORTHI SIVA VIJAY	(18P35A0330)
GORRELA SUBHAKAR GANESH	(17P31A0317)
BONDA PREM KUMAR	(18P35A0309)
GANTA THARUN PHANI SURYA PRASANTH	(18P35A0327)

In partial fulfilment of the requirement for the award of in **Bachelor of
Technology in Mechanical Engineering**, during the academic year 2017-2021.
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or university for the award of any degree.


Project Guide

CH. RAM PRASAD M.S.
Sr. Assistant Professor
Dept. of Mechanical Engineering


Head of the Department

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

External Examiner

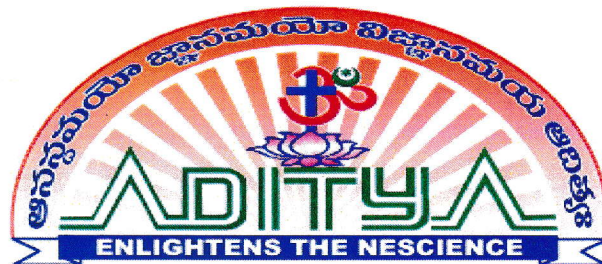
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “ **EXPERIMENTAL INVESTIGATION ON CNG AS A FUEL IN TWO WHEELER**” Submitted by

D.SATHEESH	18P35A0320
G.SUBRAMANYAM	18P35A0326
G.SAICHAKRADHAR	18P35A0329
B.SURYA VARMA	18P35A0311
A.J.V.RAJESH REDDY	17P31A0303

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. R. PRASAD, M.Tech.
Assistant professor
Mechanical Engineering Department


HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, M.Tech, Ph.D.
Associate Professor & Head
Mechanical Engineering Department
Aditya College of Engineering & Technology
Surampalem, E.G. Dist., AP – 533 437

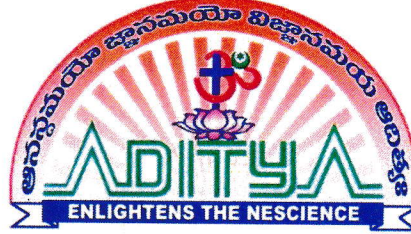
EXTERNAL EXAMINER

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2017-2021

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This to certify that the project entitled “**DESIGN AND FABRICATION OF SERIAL ROBOTIC ARM**” is

Submitted by

DEVADA HANUMA RAMA KRISHNA	(18P35A0323)
DOKUBURRA NAVEEN	(18P35A0324)
CHINTA RAVITEJA	(18P35A0315)
BANDI HARISH	(18P35A0307)
ADAPA PARISUDHA VISWA TEJAS	(17P31A0301)

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 submitted to any other institute or university for the award of any degree.


Project Guide

Dr.CH. V.V.M.J. SATISH, M. Tech, Ph.D.
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Mechanical Engineering Department
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Head of the Department

Dr. DANALAH PULI, M. Tech, Ph.D.
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External Examiner

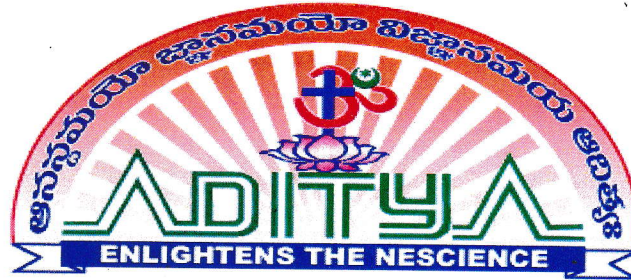
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled **"FABRICATION OF CHILLED WATER DISPENSER SYSTEM"** Submitted by

A.N.V.A.CH. SANDEEP
B.SURENDRA
G.VINAY CHAITANYA
CH.NAGA SANDEEP
A.V.VENKATA GANESH

18P35A0305
18P35A0308
17P31A0314
17P31A0310
17P31A0304

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.

G. Raju 22/7/21
PROJECT GUIDE

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

[Signature]
HEAD OF THE DEPARTMENT

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EXTERNAL EXAMINER

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MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project entitled **“PERFORMANCE ANALYSIS OF RAISERLESS SOLAR WATER WITH DENTED ABSORBER PLATE”** submitted by

BOTSA NANAJI	18P35A0310
AMBAVARAPU VEERESH	18P35A0303
GUBBALA BENNY KUMAR	18P35A0331
DALLI ANIL KUMAR	17P35A0311
AMBATI SWAMY	17P35A0305

in partial fulfillment of the degree of Bachelor of Technology in **MECHANICAL ENGINEERING** to Aditya College of Engineering and Technology affiliated to Jawaharlal Nehru Technological University, Kakinada is a record of the bonfire work carried out under my guidance and supervision. The results presented in this project report have not been submitted to any other university or institute for the award of any degree.

Project Guide

Mr. V. KIRAN KUMAR, M.Tech.,
Assistant professor

Mechanical engineering Department

Head of The Department

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External examiner

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MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

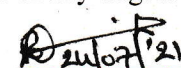
This is to certify that the project report entitled **HIGH SPEED FOUR WAY HACKSAW MACHINE USING SCOTCH YOKE MECHANISM** being submitted by

A.SAI NAVEEN	17P31A0302
CH.UTTEJ	18P35A0319
G.BHASKAR	18P35A0325
A.SAI YASWANTH	18P35A0302
A.UMAMAHESWARAO	18P35A0304

In partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** to Aditya College of Engineering & Technology, during the academic year 2017-2021. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree.


PROJECT GUIDE

Mr.G.V.SATYA SRINIVAS, M.Tech
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Aditya Nagar, ADB Road, Surampalem-533437

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “**DESIGN AND FEA ANALYSIS OF COMPOSITE LEAF SPRING**” is being submitted by

GOPISETTI VAMSI	17P31A0316
B.PRABHAKAR RAO	18P35A0332
M.PAVAN KALYAN	17P31A0322
MADIREDDI GANESH	17P31A0321
EDA PRADEEP	17P31A0313

In partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING to Aditya College of Engineering & Technology, during the academic year 2017-2021. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree.

PROJECT GUIDE

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Associate Professor & HEAD

Mechanical Engineering Department

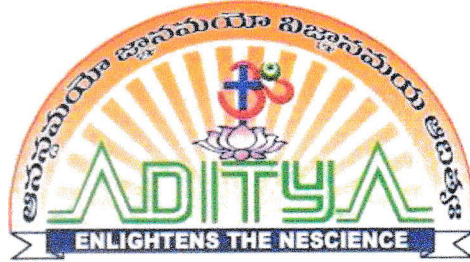
External Examiner

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Surampalem E.G. Dist., AP-533437.



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

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

CH.S.D.S. NEELADRI	18P35A0317
P. S. BHANU SUDHEER	17P31A0326
DAVULURI JAI GANESH	18P35A0321
BANDARU NOOKARAJU	18P35A0306
MANYAM ARUN KUMAR	17P31A0323

in partial fulfillment of requirement for the award of Bachelor of Technology degree in Mechanical Engineering during the academic year 2017-2021. 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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ADB ROAD, SURAMPALEM-533437, EAST GODAVARI DISTRICT



CERTIFICATE

This is to certify that the project entitled

DESIGN AND FABRICATION OF ABRASIVE JET MACHINE

Submitted by

A.SRINIVAS (17P31A0306)

D.S.G.SWAMY (18P35A0322)

CH. KARTHIK (18P35A0314)

G.S. SHANKAR (17P31A0315)

A. ROHITH (18P35A0301)

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

Mr. T.SRI RAMA SAGAR

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

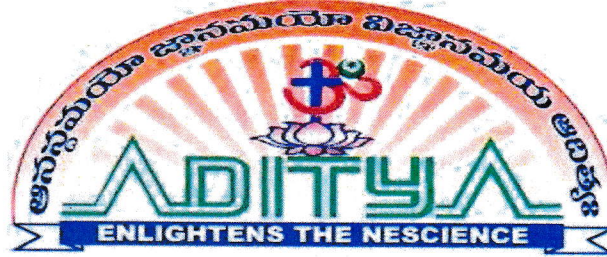
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE


This is to certify that the project report entitled “**DESIGN AND FLOW ANALYSIS OF INTAKE MANIFOLD FOR LIGHT COMMERCIAL VEHICLES BY USING COMPUTATIONAL FLUID DYNAMICS**” Submitted by

G.KISHORE	18P35A0328
CH.SARATH CHANDRA KALYAN	18P35A0318
P.SRINIVAS	17P31A0328
K.YOGESH CHANDRA CHAITANYA	17P31A0320
P.PRAGNAN MANIPAL	17P31A0327
L.DURGA SAILENDRA	17P31A0319

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. N. CHAITANYA KRISHNA, M.Tech
Assistant Professor
Mechanical Engineering Department


HEAD OF THE DEPARTMENT
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Aditya College of Engineering & Technology
SURAMPALAM 533 437
Dr. DANAIHA PULI, M.Tech, Ph.D
Associate Professor & Head
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EXTERNAL EXAMINER

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ABD ROAD, SURAMPALEM-533437, EAST GODAVARI DISTRICT

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project entitled

“DESIGN & SIMULATION OF ALL – TERRAIN VEHICLE”

is being submitted by

BUDDALA DURGAPRASAD

(18P35A0312)

VATSAVAYI SRI KRISHNA CHAITANYA VARMA

(18P35A03A4)

CHAVALA AJAY KUMAR

(18P35A0313)

BANDARU VISWA SATYA SAI KALYAN

(17P31A0308)

GUDUPU MADHU NAGA VARA PRASAD

(17P31A0346)

KOSURI HARISH

(17P31A0357)

In partial fulfillment 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. VIJAY M.Tech

Assistant Professor

Mechanical Engineering Department


HEAD OF THE DEPARTMENT

Dr. DANAIAH PULI, M.Tech, PhD

Associate Professor & Head

Mechanical Engineering Department

EXTERNAL EXAMINER

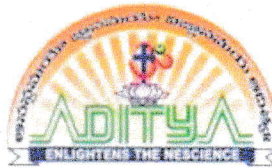
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Surampalem, East Godavari, A.P – 533437

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

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Head of the Department

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

Associate professor

Mechanical Engineering Department

Aditya College of Engineering & Technology

External Examiner

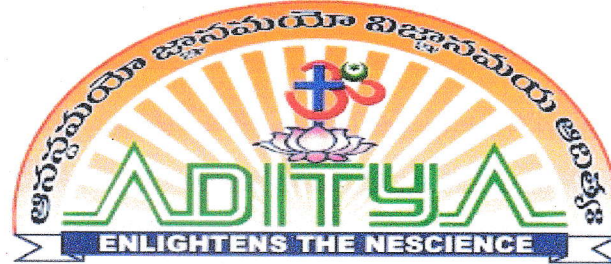
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled **“DESIGN AND 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.
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HEAD OF THE DEPARTMENT

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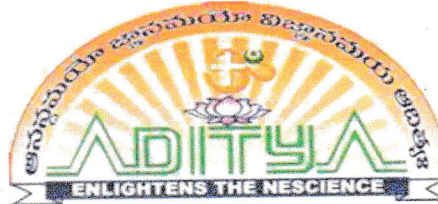
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Surampalem East Godavari District 533437

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. Jyothi

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

Assistant professor

PROJECT GUIDE

Mechanical Engineering Dept.,

Dr. Danaiah Pulli

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

Associate professor & Head

HEAD OF THE DEPARTMENT

Mechanical Engineering Dept.,

EXTERNAL EXAMINER

ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY

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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	18P35A0363
VULAVAKAYALA DATTA	17P31A0336
VALLAPUSETTI RAMAKRISHNA	17P31A0335
MYDU VENKATA SUMANTH	18P35A0358
KALAHASTI TEJA	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

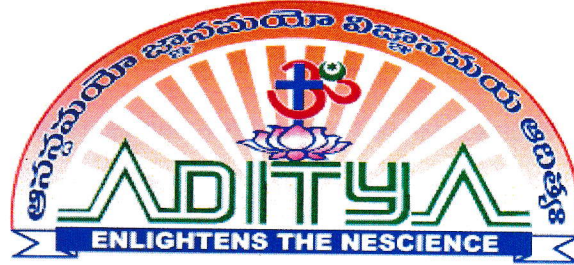
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Aditya Nagar, ADB Road, Surampalem -533437

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “Thermal Analysis and Optimization of I.C Engine Piston Using Finite Element Method” is being submitted by

R.CHANDRAKALYAN	17P31A0329
K.SIVA SUBHRAMANYAM	18P35A0346
Y.SAI VAMSI REDDY	17P31A0337
N.UMA MAHESH	18P35A0360
K.LEELA SATYA KRISHNA	18P35A0337

In partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING to Aditya College of Engineering & Technology, during the academic year 2017-2021. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree.

K.S. Mohan
16/7/21

Dr.K.SIVA SATYA MOHAN, M.Tech., Ph.D

Associate Professor

Project Guide

D. Danaiah
16/07/21
Dr.DANAIAH PULI, M.Tech., Ph.D

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Head of the Department
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External Examiner

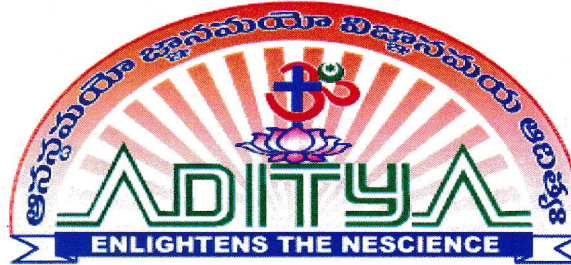
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Aditya Nagar, ADB Road, Surampalem -533437

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled

**“FABRICATION AND TESTING OF NEEM SHELL RESIN,BAMBOO
AND PINEAPPLE FIBER REINFORCED COMPOSITES”**

M.LAKSHMI VIGNESH	18P35A0349
K.SRIHARI	18P35A0345
N.CHANDRAMOULI	18P35A0359
P.JOEL VIJAYDEEP	16A91A03C9

In partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING to Aditya College of Engineering & Technology, during the academic year 2017-2021. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree.


Project Guide

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Head of the Department

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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 OF PORTABLE ELECTRICAL GRAIN DRYER” Submitted by

K. SATYATEJA	18P35A0344
B. MAHESH	17P31A0340
D. SURESH	17P31A0344
K. YESWANTH	17P31A0356
G. NARENDRA KUMAR	17P31A0347

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. SIVA NAGI REDDY, M.Tech

Assistant Professor

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HEAD OF THE DEPARTMENT


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

Associate Professor & Head

Mechanical Engineering Department

EXTERNAL EXAMINER

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

Kakinada-533003

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project entitled “ **DESIGN OF PORTABLE ELECTRIC POWER TRILLER MACHINE** ” is being submitted In partial fulfilment 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,

Submitted by

G.SAI

R.KALYAN

K.VINAY DATTA

J.VEERA VENKATA SRINIVASU

N.JAGADEESH

(18P35A0334)

(17P31A0330)

(17P31A0352)

(17P31A0351)

(18P35A0362)

B. Jagadish
PROJECT GUIDE

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D. Danaiah Puli
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Associate professor

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EXTERNAL EXAMINER

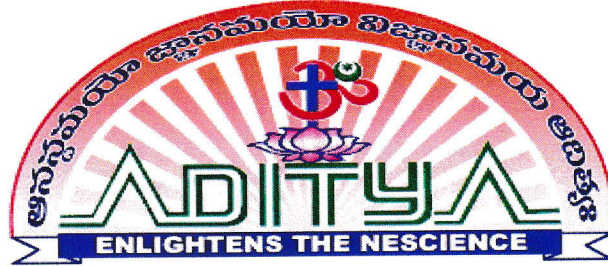
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

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

18P35A0343

18P35A0353

18P35A0355

18P35A0342

17P31A0343

K. Uma Venkata Durga Rao

M. Bapiraju

Md. Mohiddin Khan

K. Surya Venkata Prakash Rao

D. Narasimha Ganesh

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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Assistant professor

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Associate professor & Head

Mechanical Engineering Department

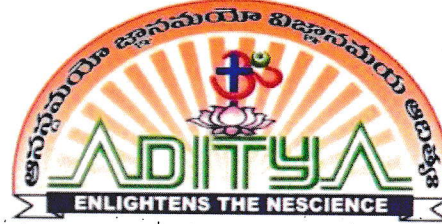
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Surampalem, E.G. Dist., AP – 533 437.

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

KANTHI ANAND PRASAD	(18P35A0340)
MOHAMMAD ABDUL JAVEED	(18P35A0354)
MUPPIDI SRINIVASAREDDY	(18P35A0357)
MATTAPARTHI PURUSHOTHAM	(18P35A0351)
BONDA SRI GANESH SAI PAVAN	(17P31A0339)

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

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Assistant Professor

Mechanical Engineering Department

HEAD OF THE DEPARTMENT

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

Associate Professor & Head

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External examiner

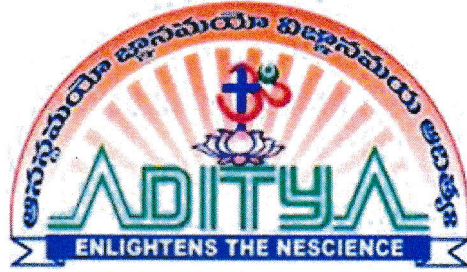
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project entitled “**CRACK INITIATION AND PROPAGATION ANALYSIS ON HEAVY VEHICLE PROPELLER SHAFT BY USING WAVELET TRANSFORM**” is being submitted by

NAVUDU BHARGAV	[18P35A0361]
SHASHI SHANKAR MANDI	[17P31A0331]
D.V.S.S. SUBBARAJU	[17P31A0345]
CH SAIRAM	[17P31A0341]
P HARISH	[17P31A0349]

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.

P. Gangadhara Rao
PROJECT GUIDE 15/07/21

Dr. P. GANGADHARA RAO, M.Tech, PhD

Associate Professor

Mechanical Engineering Department

D. Danaiah Pulli
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Head of the Department
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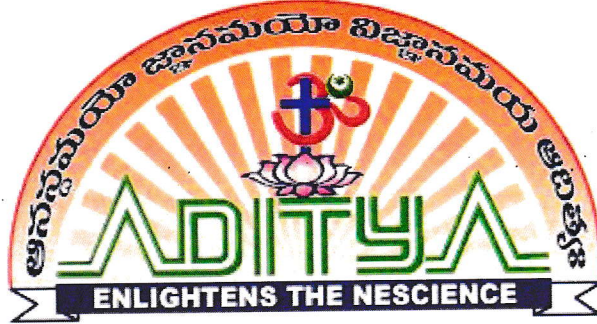
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Surampalem, E.G. Dist., AP – 533 437.

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

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EXTERNAL EXAMINER

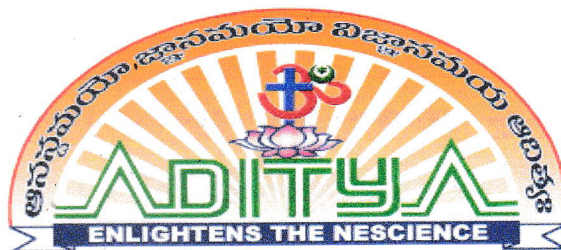
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Surampalem, E.G. Dist., AP – 533 437

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.


PROJECT GUIDE

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Assistant Professor

Mechanical Engineering Department


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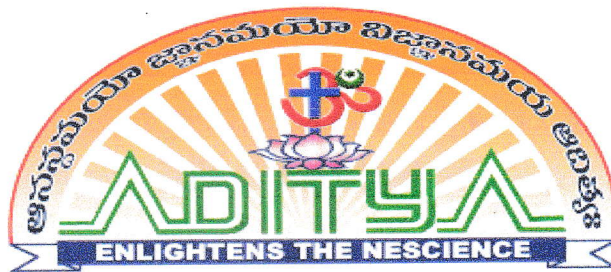
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Surampalem, E.G. Dist., AP – 533437.

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

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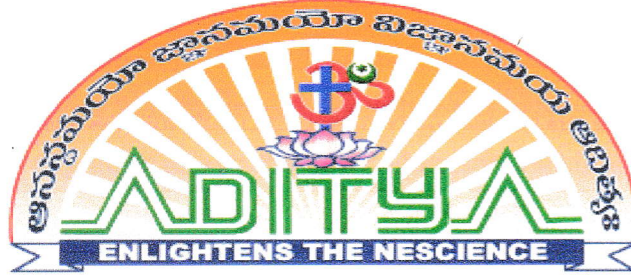
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “**DESIGN AND ANALYSIS 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

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D. Danaiah 19/7/21

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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.


16/7/21
PROJECT GUIDE

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16/07/21
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M.Tech.,Ph.D

Associate professor

Mechanical Engineering Department

EXTERNAL EXAMINER

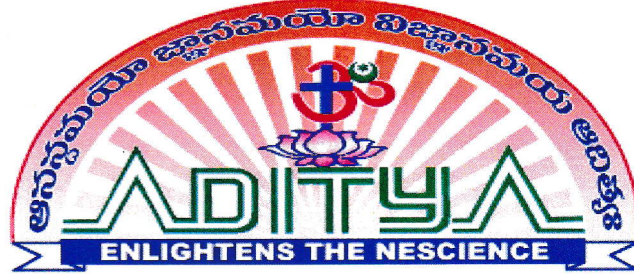
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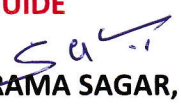
CERTIFICATE

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

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EXTERNAL EXAMINER

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Recognized by UGC under section 2(F) and 12(B) of UGC act 1956.
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
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EXTERNAL EXAMINER

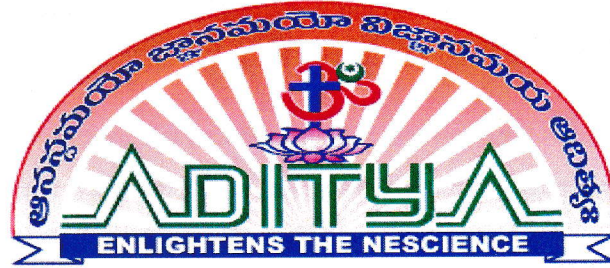
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Surampalem, E.G. Dist., AP – 533 437.

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

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Mechanical Engineering Department

HEAD OF THE DEPARTMENT

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

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EXTERNAL EXAMINER

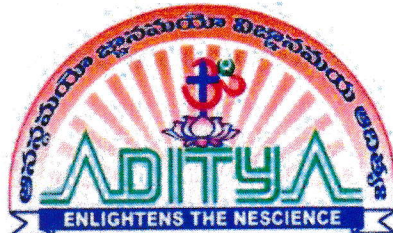
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2020-2021

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	(16P31A0397)
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

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Assistant Professor

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HEAD OF THE DEPARTMENT

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Associate Professor & Head

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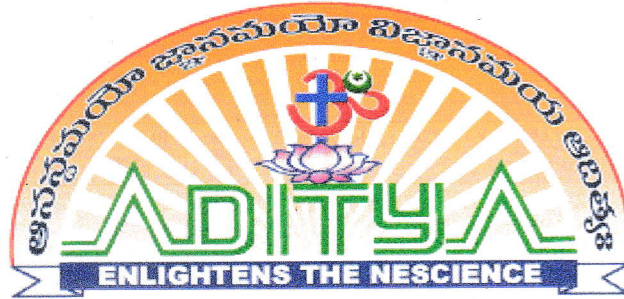
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Surampalem, E.G. Dist., AP – 533 437.

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

KADA NARENDRA

17P31A0384

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

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Associate Professor & Head

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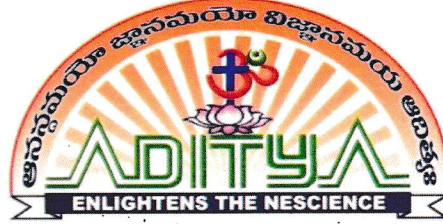
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MECHANICAL ENGINEERING DEPARTMENT



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,

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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 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

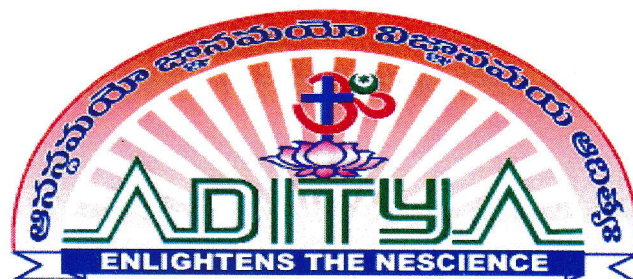
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled **“EXPERIMENTAL STUDIES ON THE EFFECT OF OXYGENATED ADDITIVIES 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.


PROJECT GUIDE

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Associate Professor & HEAD
Mechanical Engineering Department


HEAD OF THE DEPARTMENT

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

EXTERNAL EXAMINER

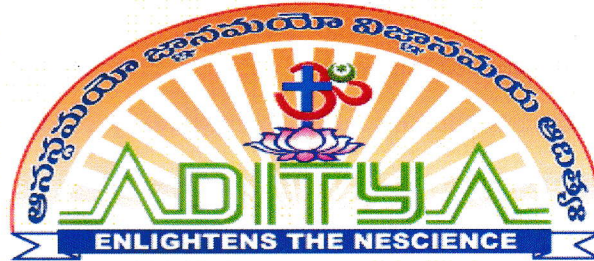
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “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

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. R. PRASAD, M.Tech.
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HEAD OF THE DEPARTMENT

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

EXTERNAL EXAMINER

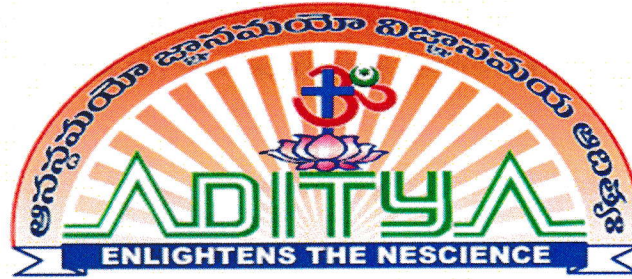
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MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

This is to certify that the project report entitled “**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
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EXTERNAL EXAMINER

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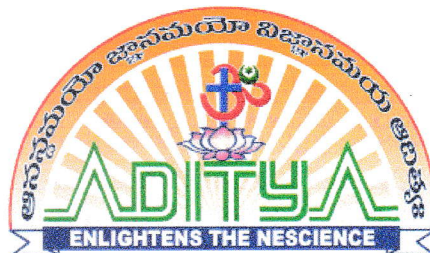
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Surampalem, E.G. Dist., AP – 533 437.

(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

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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

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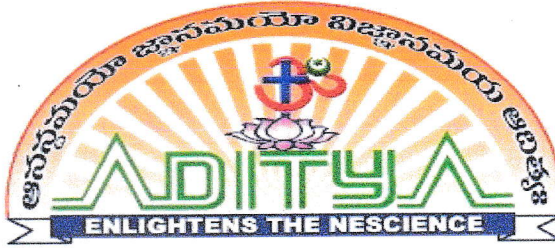
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Surampalem, E.G. Dist., AP – 533 437.

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

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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.

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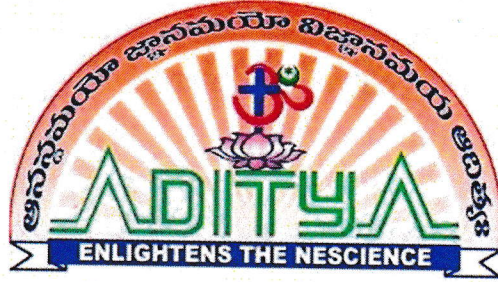
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Surampalem E.G. Dist., AP-533437.



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

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M. BHARATH CHANDRA

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V. SAI SANJAY PRATAP

18P35A03A2

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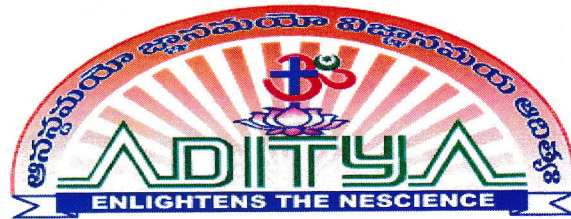
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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

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

Submitted by

B.LOKESH 18P35A03C0

N.PHANI SAESWAR 18P35A03C2

K.SAIKOTI 18P35A03B6

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V.GYANENDRA 17P31A03B0

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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)
MSAMUDRA 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

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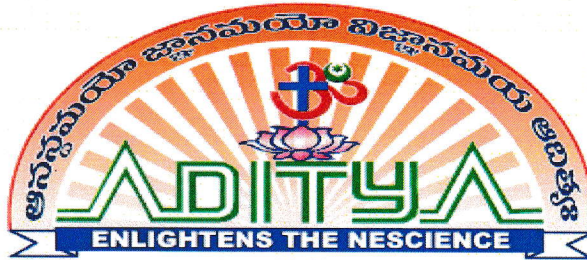
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Surampalem, E.G. Dist., AP – 533 437.



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.


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Surampalem, E.G. Dist., AP – 533 437.

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.

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EXTERNAL EXAMINER

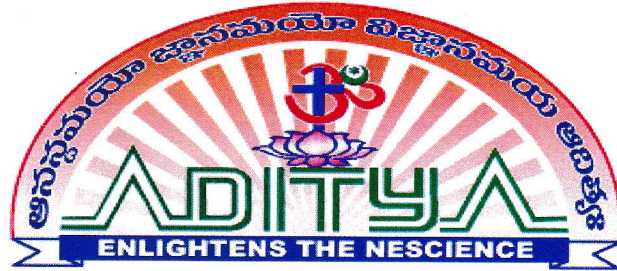
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CERTIFICATE

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.

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