

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.
The results embodied in this report have not submitted to any other institute
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
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External Examiner

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

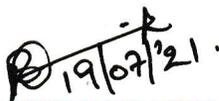
This is to certify that the project report entitled “ **EXPERIMENTAL INVESTIGATION ON CNG AS A FUEL IN TWO WHEELER**” Submitted by

| | |
|---------------------------|-------------------|
| 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.
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HEAD OF THE DEPARTMENT

Head of the Department
Dr. DANAI AH PULI, M.Tech, Ph.D.
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SURAMPALAM, E.G. DIST., AP - 533 437

EXTERNAL EXAMINER

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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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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ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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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 22/07/21
PROJECT GUIDE

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

D. Danaiah Puli 22/07/21
HEAD OF THE DEPARTMENT

Dr. DANAI AH PULI, M.Tech., Ph.D.
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EXTERNAL EXAMINER

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, Permanently Affiliated to JNTUK, accredited by NAAC) Recognized by UGC
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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

Dr.DANAIAH PULI, M.Tech, Ph.D.,
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Mechanical Engineering Department

External examiner

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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Surampalem, E.G. Dist., AP – 533 437.

MECHANICAL ENGINEERING DEPARTMENT



CERTIFICATE

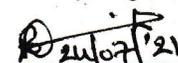
This is to certify that the project report entitled **HIGH SPEED FOUR WAY HACKSAW MACHINE USING SCOTCH YOKE MECHANISM** being submitted by

| | |
|------------------------|-------------------|
| 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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EXTERNAL EXAMINER

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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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

| | |
|-------------------------|-------------------|
| GOPSETTI 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.

N. Venkatesh
PROJECT GUIDE

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Dr. Danaiah Puli
HEAD OF THE DEPARTMENT

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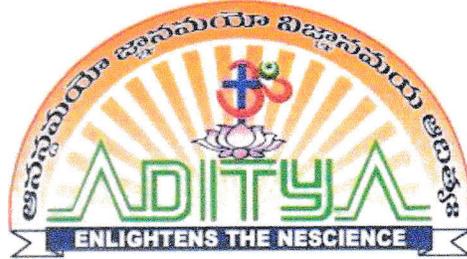
External Examiner

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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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

Dr. AKHILESH KUMAR SINGH

Assistant Professor

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HEAD OF THE DEPARTMENT

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

Associate Professor & Head

Mechanical Engineering Department

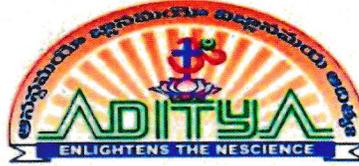
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ADB ROAD, SURAMPALEM-533437, EAST GODAVARI DISTRICT



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

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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
Mechanical Engineering
Aditya College of Engineering & Technology
SURAMPALAM 533 437
Dr. DANAIHAH PULI, M.Tech, Ph.D
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EXTERNAL EXAMINER

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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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)

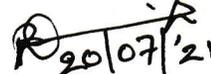
In partial fulfillment of the requirement for the award of Bachelor of Technology in Mechanical Engineering, during the academic year 2017-2021. The results embodied in this report have not been submitted to any other institute or university for the award of any degree.


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

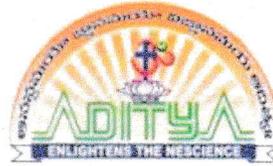
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Surampalem, East Godavari, A.P – 533437

MECHANICAL ENGINEERING DEPARTMENT



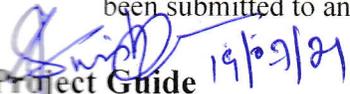
CERTIFICATE

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.

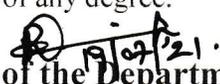

Project Guide

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

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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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

M.Srinivas
22/7/21

Mr.M.SRINIVAS M.Tech.
Assistant Professor
Mechanical Engineering Department

HEAD OF THE DEPARTMENT

D.N.Aiah Puli
22/07/21

Dr. DANAI AH PULI M.Tech, Ph.D.
Associate Professor & HEAD
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EXTERNAL EXAMINER

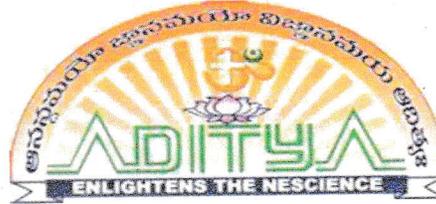
ADITYA COLLEGE OF ENGG & TECHNOLOGY

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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
“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.,

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

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

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 “**Corrosion Behavior of Ni Coated Aluminium Reinforced With Coconut Shell Ash Composites**” is being submitted by

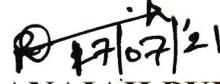
| | |
|--------------------------|------------|
| PADALA VEERABHADRAM | 18P35A0363 |
| VULAVAKAYALA DATTA | 17P31A0336 |
| VALLAPUSETTI RAMAKRISHNA | 17P31A0335 |
| MYDU VENKATA SUMANTH | 18P35A0358 |
| KALAHASTI TEJA | 18P35A0338 |

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.Siva Satya Mohan
16/7/21

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

Associate Professor

Project Guide

D. Danaiah Puli
16/07/21

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SURAMPALAM 533 437

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

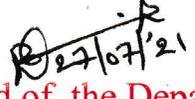
**“FABRICATION AND TESTING OF NEEM SHELL RESIN,BAMBOO
AND PINEAPPLE FIBER REINFORCED COMPOSITES”**

| | |
|-------------------|------------|
| 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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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

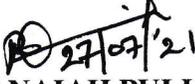
| | |
|--------------------------|-------------------|
| K. SATYATEJA | 18P35A0344 |
| B. MAHESH | 17P31A0340 |
| D. SURESH | 17P31A0344 |
| K. YESWANTH | 17P31A0356 |
| G. NARENDRA KUMAR | 17P31A0347 |

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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
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CERTIFICATE

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K. Uma Venkata Durga Rao

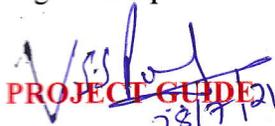
M. Bapiraju

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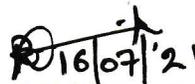
In partial fulfillment of the requirement for the award of Bachelor of Technology in Mechanical Engineering, during the academic year 2020-2021. The results embodied in this report have not been submitted to any other institute or university for the award of any degree.


PROJECT GUIDE 15/07/21

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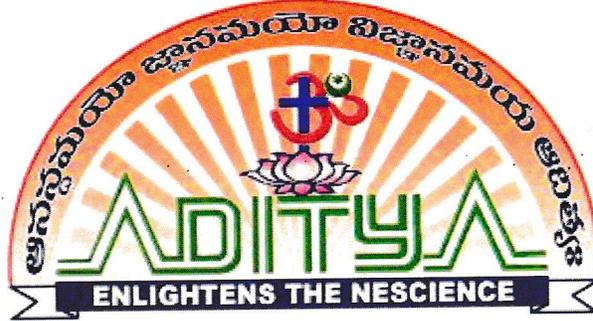
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This is to certify that the project report entitled “PERFORMANCE ANALYSIS OF A VCR ENGINE FOR VARIOUS PISTON DESIGNS AND CONFIGURATIONS” Submitted by

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

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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

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| 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.


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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 19/12/21

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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

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

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

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This is to certify that this project report entitled
“CFD ANALYSIS OF SOLAR FLAT PLATE COLLECTOR”

Submitted by

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| 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.


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

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| 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.

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2020-2021

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| PERUMAALLA NAGA DURGA GANESH | (16P31A0397) |
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This is to certify that the project report entitled “DESIGN AND ANALYSIS OF WINDMILL OPERATED WATER PUMP WITH TWO DIFFERENT AIRFOILS” Submitted by

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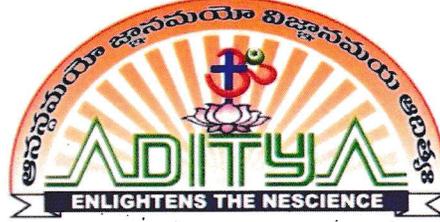
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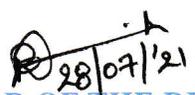
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| SAKA VEERA SHANKAR | (18P35A0380) |
| PAKKURTHI L N V KALYAN | (18P35A0365) |
| TELU PRASAD KUMAR | (18P35A0389) |

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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

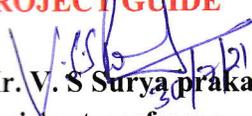
P. PAVAN SURYA

P. S V S GIREESH KUMAR

P. MAHESH BABU

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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

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|-----------------------------|-------------------|
| P.RAMA MANIKANTA | 18P35A03B4 |
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| P.AKHILESH | 17P31A03A2 |
| Y.NAVEEN JAYDEV | 17P31A03B1 |

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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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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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Mr. N VENKATESH M.Tech;

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D Danaiahpuli
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ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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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

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17P31A0393

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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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CERTIFICATE

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

Submitted by

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| 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.

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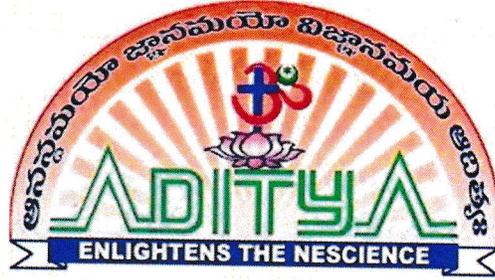
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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

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

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| Y.DHANRAJ | 18P35A03B0 |
| Y. SRINUBABU | 18P35A03A9 |
| K. SUBASH | 18P35A03B9 |
| M. BHARATH CHANDRA | 18P35A03C1 |
| V. SAI SANJAY PRATAP | 18P35A03A2 |

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PROJECTGUIDE

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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.

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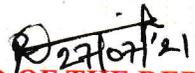
This is to certify that the project report entitled “**DESIGN AND ANALYSIS OF OMNIBALL SPHERICALWHEEL ROBOT**” Submitted by

| | |
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| 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.


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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

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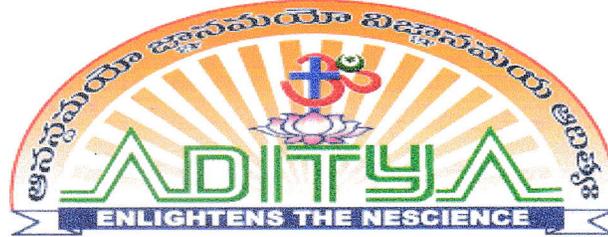
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Surampalem, E.G. Dist., AP – 533 437.

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

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

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Surampalem, E.G. Dist., AP – 533 437.

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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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