

DEPARTMENT OF MECHANICAL ENGINEERING

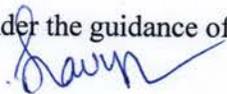


VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "ROCKER BOGIE SUSPENSION SYSTEM" is being submitted as a record bonafide work carried out by **A. HITESH KUMAR** (16911A0361), **G. BHANU PRASAD** (16915A0374), **L. NAVEEN KUMAR** (16915A0389), **R. SURYA TEJA** (16911A03A7) in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

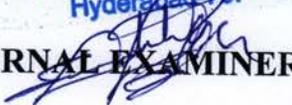

Ms. G. SRAVYA

Professor

Head of The Department


Dr. G. Sreeram Reddy


INTERNAL EXAMINER


EXTERNAL EXAMINER


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "DESIGN AND CFD ANALYSIS OF A CAR REAR AEROFOIL" is being submitted as a record bonafide work carried out by **AJAY BIRADAR (16911A0362)**, **P.BHASKAR (16915A03A0)**, **P.RAHUL KUMAR (16915A03A3)**, **P.V.S MANOJ CHANDRA (16911A03A5)** in partial fulfilment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

Mr. M.Mallesh

Associate Professor

Head of The Department
Dr. G. Sreeram Reddy

INTERNAL EXAMINER

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

EXTERNAL EXAMINER

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report titled “**FRICTION STIR WELDING OF DISSIMILAR ALUMINIUM ALLOYS BY ADDING BORAN CARBIDE POWDER**” has been submitted by

A.NARENDAR REDDY

(16911A03B8)

C.SAI SUMANTH CHARY

(16911A03C8)

R.VINOD KUMAR

(16911A03G0)

S.SAI SANDEEP YADAV

(16911A03G7)

In the partial fulfillment of the requirements for the award of the **B.tech** Degree in **MECHANICAL ENGINEERING** from the **Vidya Jyothi Institute Of Technology**, Hyderabad is a bonafied work carried out by them during the academic year 2019- 2020.

INTERNAL GUIDE,
Mr. P.SAMPATH KUMAR,
Associate Professor (CAD/CAM).

HEAD OF THE DEPARTMENT,
Dr. G.SREERAM REDDY,
Professor (Dept of Mechanical)

EXTERNAL EXAMINER,

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

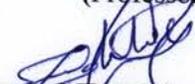
This is to certify that the Project report entitled “**ERGONOMIC BUDGET MINI CHOPPER**” has been submitted by the following students in partial fulfilment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this Project report have not been submitted to any other university or institute for the award of any degree.

MOHAMMED ISHAQ(16911A0339)

APNAGARI NAVEEN KUMAR(16911A0303)

ALLI VINAY KUMAR(17915A0303)


Project Guide
Mrs.J.EMEEMA
(Associate Professor)


Head of the Department
Dr.G.SREERAM REDDY
(Professor)

External Examiner

PRINCIPAL
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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF MECHANICAL ENGINEERING



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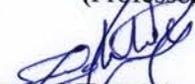
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MOHAMMED ISHAQ(16911A0339)

APNAGARI NAVEEN KUMAR(16911A0303)

ALLI VINAY KUMAR(17915A0303)


Project Guide
Mrs.J.EMEEMA
(Associate Professor)


Head of the Department
Dr.G.SREERAM REDDY
(Professor)

External Examiner

PRINCIPAL
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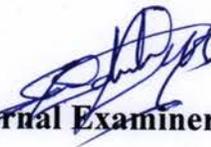
CERTIFICATE

This is to certify that the project report entitled “Evaluation of Mechanical Properties of a Novel Composite Material” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2016 - 2017. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

A BALAKRISHNA	16911A0305
K A MALLESH YADAV	16911A0326
V VISHNU	16911A0357
B SHASHI REDDY	17915A0308


Project Guide,
S RAMAKRISHNA
(Assistant Professor)


Head of the Department
DR G. SREERAM REDDY
(Professor)


External Examiner


PRINCIPAL
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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “Evaluation of Mechanical Properties of a Novel Composite Material” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

S RAMANUJAM 16911A0349

B JAYACHANDRA 17915A0307

B SAI HARIHARAN 17915A0311

B DIKSHITH 17915A0312

Project Guide

T. Pavan Kumar

(Assistant Professor)

Head of the Department

Dr G. Sreeram Reddy

(Professor)

External Examiner

A. Pavan Kumar

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY



Department of Mechanical Engineering

BONAFIDE CERTIFICATE

This is to certify that the project work entitled “INVESTIGATION ON THE IMPACT OF NOTCH GEOMETRY ON THE FATIGUE LIFE OF SUPER DUPLEX SS UNS S31254”

is bonafide project work

submitted by

1. B. SRINATH (16911A03CO)

2. P. CHINNASWAMY (16911A03F7)

3. N. RAJESH (16911A03F2)

4. B. SUNIL (16911A03G8)

In partial fulfilment of requirements for the award of the degree of **Bachelor of Technology in Mechanical Engineering** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision. The result embodied in the report has not been submitted the same to any university/institution for the award of any Degree.

Mr. J.JAGADESH KUMAR

Internal Examiner

Dept of Mechanical engineering
engineering

Dr. G.SREERAM REDDY

Head of the Department

Dept of Mechanical

External

Examiner

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VII), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

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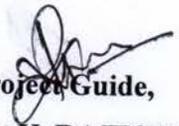
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project work entitled “**Experimental investigation of Mechanical properties of Mild steel AISI 1040 using MIG welding process**” is a bonafide work carried out by M.PREM(16911A0334), M.ARAVIND REDDY (16911A0342), **B.SURYA KANTH(16911A0306)**, S.VAMSHI(16911A0351) in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING to be awarded by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad.**

The content in this report has not been submitted to any other university or institute for the award of any degree or diploma.


Project Guide,
Mr.K. RAJESH KUMAR


Head of the Department
DR G. SREERAM REDDY
(Professor)


External Examiner


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

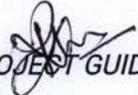
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING



BONAFIDE CERTIFICATE

This is to certify that the project work entitled "Experimental Investigation of Mechanical Properties of Stainless Steel 304 Using TIG Welding Process"

is bonafide project work submitted by BANDA VIKAS YADAV(16911A0307) CHINTHA ARUN(16911A0313) DEVUNURI MANIRATNAM(16911A0315) MALGARI KRANTHI SWAROOP REDDY(16911A0333). In the department of MECHANICAL ENGINEERING in partial fulfilment of requirements for the award of degree of Bachelor of Technology in "Mechanical Engineering" for the academic year 2016-20. This work has been carried under the guidance of K. RAJESH KUMAR, Associate Professor and has not been submitted the same for any university/institution for award of any degree/diploma.


PROJECT GUIDE

Mr. K. RAJESH KUMAR


HEAD OF DEPARTMENT

Dr. G. SREERAM REDDY


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “DEVELOPMENT OF COMPOSITE MATERIALS USING VARIOUS FIBERS AND EPOXY RESIN ” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in MECHANICAL Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

B.SHIVANI	16911A0308
J.SWAPNA	16911A0325
M.VEENILA	16911A0336
UVS.CHANDAN	16911A0355

Project Guide,

MR.C.NAVEEN RAJ
(Assistant Professor)

Head of the Department

Dr. SREERAM REDDY
(Professor)

PRINCIPAL
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DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “Evaluation of Mechanical Properties of a Novel Composite Material” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2016 - 2017. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

A BALAKRISHNA 16911A0305

K A MALLESH YADAV 16911A0326

V VISHNU 16911A0357

B SHASHI REDDY 17915A0308

Project Guide,

S RAMAKRISHNA

(Assistant Professor)

Head of the Department
DR G. SREERAM REDDY

(Professor)

External Examiner

PRINCIPAL
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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

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DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “Evaluation of Mechanical Properties of a Novel Composite Material” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

S RAMANUJAM 16911A0349

B JAYACHANDRA 17915A0307

B SAI HARIHARAN 17915A0311

B DIKSHITH 17915A0312

Project Guide

T. Pavan Kumar

(Assistant Professor)

Head of the Department

Dr G. Sreeram Reddy

(Professor)

External Examiner

A. Pavan Kumar

PRINCIPAL
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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “**COMPARATIVE EVALUATION OF MILDSTEEL WELDED JOINTS EMPLOYED BY DEFFERENT PROCESSES**” has been submitted by the following students in partial fulfilment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technology University, Hyderabad, during the academic year 2016-2020

The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

S.SUNIL 16911A0352

T.SANDEEP 16911A0354

M.RAJKUMAR 16911A0341

B.NAGA 16911A0310

Project Guide

DR.V.V.SATYANARAYANA

(Professor) (Professor)

Head of the Department

DR.G.Sree RamReddy

A. Ramana
PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VII), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “Evaluation of Mechanical Properties of a Novel Composite Material” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

S RAMANUJAM 16911A0349

B JAYACHANDRA 17915A0307

B SAI HARIHARAN 17915A0311

B DIKSHITH 17915A0312

Project Guide

T. Pavan Kumar

(Assistant Professor)

Head of the Department

Dr G. Sreeram Reddy

(Professor)

External Examiner

A. Pavan Kumar

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to Jawaharlal Nehru Technological University, Hyderabad)

Aziznagar Gate, ChilkurBalaji Road, Hyderabad, TS-500075 DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project report titled "AUTOMATION OF CONVENTIONAL LATHE" is being submitted as a record bonafide work carried out by **SAI KRISHN (17915A0314), PAVANKUMAR.CH.(17915A0318), VAMSHIKRISHNA.D(17915A0320), GAN GARAJU.G.(17915A0324)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, VidyaJyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of

P. RAGHURAM REDDY

Associate Professor Professor

Head of The Department

Dr.G.SREERAM REDDY

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL

Vidya Jyothi Institute of Technology
Himayalnagar (Vill), C.B. Post.,
Hyderabad-76.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Autonomous)

Aziz Nagar gate, CB Post, Hyderabad-500075



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “Validation of Empirical Method & Finite Element Method for Evaluation of Fatigue Parameter of Steels.” is bonafide project work submitted by HARSH LAHOTI (16911A03D4), CH. SANATH CHANDRA (16911A03C7), GAYATRI VELAMURI (16911A03G2) and S. ANISHA REDDY (16911A03G6). In partial fulfillment of requirements for the award of the degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING to be awarded by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad

The content in this report has not been submitted to other universities/institutions for the award of any Degree.

PROJECT GUIDE
Mr. J. JAGADESH KUMAR
Associate Professor

HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor

Internal Supervisor

External Supervisor

PRINCIPAL
Vidya Jyothi Institute of Technology
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Hyderabad-75.



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to Jawaharlal Nehru Technological University, Hyderabad)

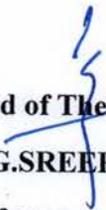
Aziznagar Gate, Chilkur Balaji Road, Hyderabad, TS-500075

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project report titled “**THE EFFECT OF VARIOUS MATERIALS ON PERFORMANCE OF THERMAL ENERGY STORAGE TANK**” is being submitted as a record bonafide work carried out by **N.BHAVANI (16911A0399), T.VANDANA (16911A0B5), CH.SHASHANK (17915A0316), E.SRIKANTH REDDY (17915A0321)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of 
Dr.L.MADAN ANANDA KUMAR
Associate Professor


Head of The Department
Dr.G.SREERAM REDDY
Professor


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.


INTERNAL EXAMINER

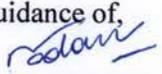

EXTERNAL EXAMINER

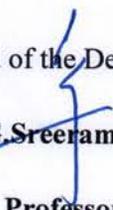
DEPARTMENT OF MECHANICAL ENGINEERING
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY



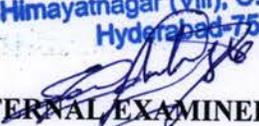
CERTIFICATE

This is to certify that the project report titled “CONCENTRATING SOLAR POWER” is being submitted as a record bonafide work carried out by C.M.CHENNA KESHAV (16911A0367), G.GAYATHRI (16911A0375), G.BHAVYA SRI (16911A0377), CH.SAI KUMAR (17915A0317), J.DEEKSHITH (17915A0325) in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

Dr.L.Madan Ananda Kumar
Associate Professor

Head of the Department

Dr.G.Sreeram Reddy
Professor


INTERNAL EXAMINER


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

EXTERNAL EXAMINER

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report titled “**FRICTION STIR WELDING OF DISSIMILAR ALUMINIUM ALLOYS BY ADDING BORAN CARBIDE POWDER**” has been submitted by

A.NARENDAR REDDY	(16911A03B8)
C.SAI SUMANTH CHARY	(16911A03C8)
R.VINOD KUMAR	(16911A03G0)
S.SAI SANDEEP YADAV	(16911A03G7)

In the partial fulfillment of the requirements for the award of the **B.tech** Degree in **MECHANICAL ENGINEERING** from the **Vidya Jyothi Institute Of Technology**, Hyderabad is a bonafied work carried out by them during the academic year 2019- 2020.

INTERNAL GUIDE,
Mr. P.SAMPATH KUMAR,
Associate Professor (CAD/CAM).

HEAD OF THE DEPARTMENT,
Dr. G.SREERAM REDDY,
Professor (Dept of Mechanical)

EXTERNAL EXAMINER,

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to Jawaharlal Nehru Technological University, Hyderabad)

Aziznagar Gate, ChilkurBalaji Road, Hyderabad, TS-500075 DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project report titled "AUTOMATION OF CONVENTIONAL LATHE" is being submitted as a record bonafide work carried out by SAI KRISHN (17915A0314), PAVANKUMAR.CH.(17915A0318), VAMSHIKRISHNA.D(17915A0320), GAN GARAJU.G.(17915A0324) in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, VidyaJyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of

P. RAGHURAM REDDY

Associate Professor Professor

Head of The Department

Dr.G.SREERAM REDDY

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL

Vidya Jyothi Institute of Technology
Himayalnagar (Vill), C.B. Post.,
Hyderabad-76.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
(Affiliated to JNTUH)
Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



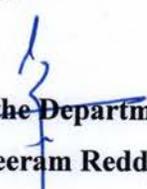
CERTIFICATE

This is to certify that the project report entitled “INVESTIGATION OF MECHANICAL PROPERTIES OF POLYURETHANE COMPOSITES WITH QUARTZ” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

CH.SAI CHANDANA	16911A0366
M.VINAY KUMAR	16911A0391
S.SAI KRISHNA	16911A03A8
T.NAVEEN	16911A03B3


Project Guide,
DR. B V REDDI
Professor

Professor


Head of the Department
Dr G. Sreeram Reddy


External Examiner

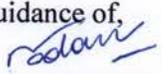

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Hyderabad-75.

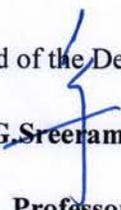
DEPARTMENT OF MECHANICAL ENGINEERING
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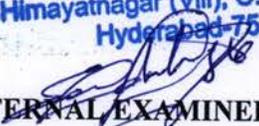
CERTIFICATE

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Under the guidance of,

Dr.L.Madan Ananda Kumar
Associate Professor

Head of the Department

Dr.G.Sreeram Reddy
Professor


INTERNAL EXAMINER


PRINCIPAL
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EXTERNAL EXAMINER

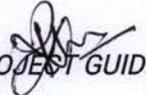
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING



BONAFIDE CERTIFICATE

This is to certify that the project work entitled "Experimental Investigation of Mechanical Properties of Stainless Steel 304 Using TIG Welding Process"

is bonafide project work submitted by BANDA VIKAS YADAV(16911A0307) CHINTHA ARUN(16911A0313) DEVUNURI MANIRATNAM(16911A0315) MALGARI KRANTHI SWAROOP REDDY(16911A0333). In the department of MECHANICAL ENGINEERING in partial fulfilment of requirements for the award of degree of Bachelor of Technology in "Mechanical Engineering" for the academic year 2016-20. This work has been carried under the guidance of K.RAJESH KUMAR, Associate Professor and has not been submitted the same for any university/institution for award of any degree/diploma.


PROJECT GUIDE

Mr. K. RAJESH KUMAR


HEAD OF DEPARTMENT

Dr. G. SREERAM REDDY


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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING



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PROJECT GUIDE

Mr. K. RAJESH KUMAR


HEAD OF DEPARTMENT

Dr. G. SREERAM REDDY


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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering

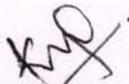


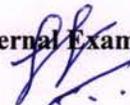
BONAFIDE CERTIFICATE This is to certify that the project work entitled “An experimental investigation of the performance and emissions of a hydrogen-diesel dual fuel compression ignition internal combustion engine” is bonafide project work submitted by

JAYA SHIVA KUMAR DACHAPALLY	16911A03J0
PUSKURI VENKAT	17915A0348
NAGRAJ SWARNAKAR	16911A03N0
SYED AFZAL AFNAAN	16911A03N1

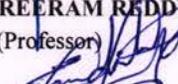
In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.


PROJECT GUIDE
K.ASHOK CHARY
(Associate Professor)


Internal Examiner


HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
(Professor)


External Examiner

PRINCIPAL
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Hyderabad-75.

242



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to
Jawaharlal Nehru Technological University, Hyderabad

CERTIFICATE

This is to certify that the dissertation entitled — **MODELING AND ANALYSIS OF HUMAN FEMUR BONE USING FEM** is a bonafide work carried out by **S. DEEPIKA (16911A03J3)**, **D.D.N.SAI SUPRIYA (16911A03J4)**, **IBRAHIM BIN ABDHULLAH (16911A03K1)**, **J.HEAMANTH REDDY (16911A03K2)**, **RAHUL PATIL (16911A03M4)** in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, Under our Guidance and Supervision

The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide
J. Pradeep Kumar
Mr. J. PRADEEP KUMAR
Assistant Professor

Head of the Department
Dr. G. Sreeram Reddy
Dr. G. SREERAM REDDY,

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Aziznagar Gate, ChilkurBalaji Road, Hyderabad, TS-500075 DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project report titled "AUTOMATION OF CONVENTIONAL LATHE" is being submitted as a record bonafide work carried out by SAI KRISHN (17915A0314), PAVANKUMAR.CH.(17915A0318), VAMSHIKRISHNA.D(17915A0320), GAN GARAJU.G.(17915A0324) in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, VidyaJyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of

P. RAGHURAM REDDY

Associate Professor Professor

Head of The Department

Dr.G.SREERAM REDDY

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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide
J. Pradeep Kumar
Mr. J. PRADEEP KUMAR
Assistant Professor

Head of the Department
Dr. G. Sreeram Reddy
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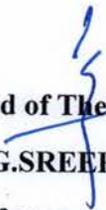
Aziznagar Gate, Chilkur Balaji Road, Hyderabad, TS-500075

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project report titled “**THE EFFECT OF VARIOUS MATERIALS ON PERFORMANCE OF THERMAL ENERGY STORAGE TANK**” is being submitted as a record bonafide work carried out by **N.BHAVANI (16911A0399), T.VANDANA (16911A0B5), CH.SHASHANK (17915A0316), E.SRIKANTH REDDY (17915A0321)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of 
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Associate Professor


Head of The Department
Dr.G.SREERAM REDDY
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(Autonomous)

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “The Effect of Al₂O₃ on the performance of Single stage Solar still” is bonafide project work submitted by

1. R.R.RAGHAVENDRA REDDY (16911A03G1)
2. V.KOMAL TEERTHA (16911A03HO)
3. G.NITHIN VARMA (16911A03D0)
4. **E.VARUN (16911A03C9)**

In partial fulfilment of requirements for the award of the degree of **Bachelor of Technology in Mechanical Engineering** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for the award of any Degree.

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Dr. L. MADAN ANANDA KUMAR

AssociateProfessor

HEAD OF DEPARTMENT

Dr. G. SREERAM REDDY

Professor

Internal Examiner

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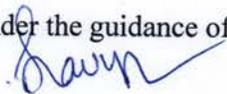


VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "ROCKER BOGIE SUSPENSION SYSTEM" is being submitted as a record bonafide work carried out by **A. HITESH KUMAR (16911A0361)**, **G. BHANU PRASAD (16915A0374)**, **L. NAVEEN KUMAR (16915A0389)**, **R. SURYA TEJA (16911A03A7)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

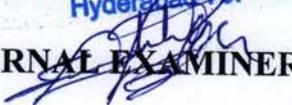

Ms. G. SRAVYA

Professor

Head of The Department


Dr. G. Sreeram Reddy


INTERNAL EXAMINER


EXTERNAL EXAMINER


PRINCIPAL
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Department of Mechanical Engineering



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PROJECT GUIDE

Dr. L. MADAN ANANDA KUMAR

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Dr. G. SREERAM REDDY

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Internal Examiner


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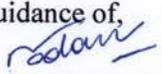

External Examiner

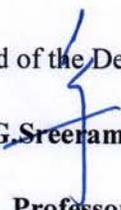
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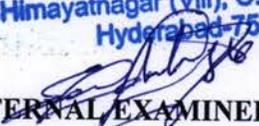
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Under the guidance of,

Dr.L.Madan Ananda Kumar
Associate Professor

Head of the Department

Dr.G.Sreeram Reddy
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**VIDYA JYOTHI INSTITUTE OF
TECHNOLOGY
(Autonomous)**

Himayath Nagar (VI), C.B. Post, R.R Dist. 500075



CERTIFICATE

This to certify that the project work entitled “Effect of coating on AISI 316L Austenitic stainless steel for Tribological property evaluation” is a bonafide work carried out by

MR. SANDEEP (16911A03H2)

MR. M. AKHIL (16911A03F0)

MS. G. MOUNIKA (16911A03D1)

MS. G. TEJASHWINI (16911A03D3)

in partial fulfilment of the requirements for award of degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**

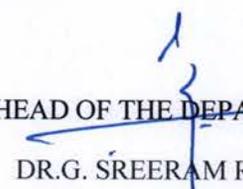
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PROJECT GUIDE

DR.V.V. SATYANARAYANA

Professor

Internal examiner


HEAD OF THE DEPARTMENT

DR.G. SREERAM REDDY

Professor

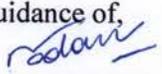
External examiner

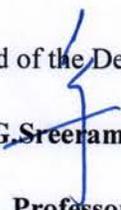
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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY



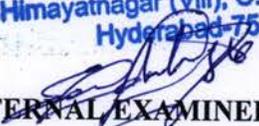
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Under the guidance of,

Dr.L.Madan Ananda Kumar
Associate Professor

Head of the Department

Dr.G.Sreeram Reddy
Professor


INTERNAL EXAMINER


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EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the work reported in the present project entitled **“DESIGN AND MANUFACTURING OF CUSTOM SLIPPER SOLE USING LATTICE STRUCTURES”** is a record of work done by us in the department of MECHANICAL Engineering, Vidya Jyothi Institute of Technology (Autonomous), Jawaharlal Nehru technological university, Hyderabad. The reports based on the project work done entirely by us and not copied from any other source.

Mr. G. SESHANTH (16911A0322),

Mr. R. NAVEEN (16911A0348),

Mr. V. PAVAN SUDHAKAR (16911A0358),

Miss. Y. LAXMI PRASANNA (16911A0359)

Project Guide,

Dr. V. Phanindra Bogu
(Associate Professor)

Head of the Department

DR G. SREERAM REDDY
(Professor)

External Examiner

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Hyderabad-75.

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(Autonomous)**

Himayath Nagar (VI), C.B. Post, R.R Dist. 500075



CERTIFICATE

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MR. SANDEEP (16911A03H2)

MR. M. AKHIL (16911A03F0)

MS. G. MOUNIKA (16911A03D1)

MS. G. TEJASHWINI (16911A03D3)

in partial fulfilment of the requirements for award of degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**

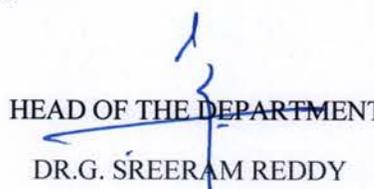
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PROJECT GUIDE

DR.V.V. SATYANARAYANA

Professor

Internal examiner


HEAD OF THE DEPARTMENT

DR.G. SREERAM REDDY

Professor

External examiner

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Aziz Nagar Gate, C.B Post, ChilkurRoad,Hyderabad– 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "**SYNTHESIS OF TITANIA(TiO₂) NANO STRUCTURES WITH DIFFERENT MORPHOLOGIES**" has been submitted by the following students in partial fulfillment for the award of the degree of "**Bachelor of Technology**" in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

G. AJAY REDDY	(16911A0323)
K. DURGA PRASAD	(16911A0330)
K. RUCHITHA	(16911A0331)
P. DIVIJ REDDY	(16911A0346)

Project Guide,
Dr. B.V. REDDI
Professor

Head of the Department
Dr. SREE RAMREDDY
Professor

External Examiner

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Aziznagar Gate, ChilkurBalaji Road, Hyderabad, TS-500075 DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project report titled “AUTOMATION OF CONVENTIONAL LATHE” is being submitted as a record bonafide work carried out by SAI KRISHN (17915A0314), PAVANKUMAR.CH.(17915A0318), VAMSHIKRISHNA.D(17915A0320), GAN GARAJU.G.(17915A0324) in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, VidyaJyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of

P. RAGHURAM REDDY

Associate Professor Professor

Head of The Department

Dr.G.SREERAM REDDY

INTERNAL EXAMINER

EXTERNAL EXAMINER

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Hyderabad-76.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Aziz Nagar gate, CB Post, Hyderabad-500075



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “Validation of Empirical Method & Finite Element Method for Evaluation of Fatigue Parameter of Steels.” is bonafide project work submitted by **HARSH LAHOTI (16911A03D4), **CH. SANATH CHANDRA (16911A03C7)**, **GAYATRI VELAMURI (16911A03G2)** and **S. ANISHA REDDY (16911A03G6)**. In partial fulfillment of requirements for the award of the degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad****

The content in this report has not been submitted to other universities/institutions for the award of any Degree.

PROJECT GUIDE
Mr. J. JAGADESH KUMAR
Associate Professor

HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor

Internal Supervisor

External Supervisor

PRINCIPAL
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Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

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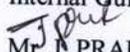
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

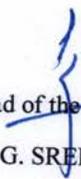
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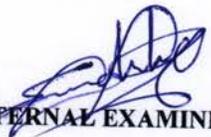
CERTIFICATE

This is to certify that the dissertation entitled — **MODELING AND ANALYSIS OF HUMAN FEMUR BONE USING FEM** is a bonafide work carried out by **S. DEEPIKA (16911A03J3), D.D.N.SAI SUPRIYA (16911A03J4), IBRAHIM BIN ABDHULLAH (16911A03K1), J.HEAMANTH REDDY (16911A03K2), RAHUL PATIL (16911A03M4)** in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, Under our Guidance and Supervision

The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide

Mr. J. PRADEEP KUMAR
Assistant Professor

Head of the Department

Dr. G. SREERAM REDDY,


EXTERNAL EXAMINER


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DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “DEVELOPMENT OF COMPOSITE MATERIALS USING VARIOUS FIBERS AND EPOXY RESIN ” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in MECHANICAL Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

B.SHIVANI	16911A0308
J.SWAPNA	16911A0325
M.VEENILA	16911A0336
UVS.CHANDAN	16911A0355

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Head of the Department

Dr. SREERAM REDDY
(Professor)

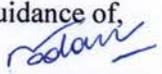
PRINCIPAL
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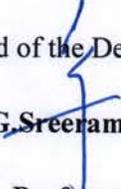
DEPARTMENT OF MECHANICAL ENGINEERING
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY



CERTIFICATE

This is to certify that the project report titled “CONCENTRATING SOLAR POWER” is being submitted as a record bonafide work carried out by C.M.CHENNA KESHAV (16911A0367), G.GAYATHRI (16911A0375), G.BHAVYA SRI (16911A0377), CH.SAI KUMAR (17915A0317), **J.DEEKSHITH (17915A0325)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

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Associate Professor

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Dr.G.Sreeram Reddy
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242



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CERTIFICATE

This is to certify that the dissertation entitled — **MODELING AND ANALYSIS OF HUMAN FEMUR BONE USING FEM** is a bonafide work carried out by **S. DEEPIKA (16911A03J3), D.D.N.SAI SUPRIYA (16911A03J4), IBRAHIM BIN ABDHULLAH (16911A03K1), J.HEAMANTH REDDY (16911A03K2), RAHUL PATIL (16911A03M4)** in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, Under our Guidance and Supervision

The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide
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Mr. J. PRADEEP KUMAR
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Head of the Department
Dr. G. Sreeram Reddy
Dr. G. SREERAM REDDY,

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A. Prasad
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DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "INVESTIGATION OF MORPHOLOGY OF SILVER-IRON NANO POWDER" is being submitted as a record bonafide work carried out by **J.SHASHANK (16911A0381)**, **MOHD SANWAL AHMED (16911A0396)**, **P.SAI NATH (16915A03A1)**, **Y. SUDHEER YADAV (16911A03B6)** in partial fulfilment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

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Asst. Professor

Head of The Department

Dr. G.SREE RAM REDDY

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DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “Evaluation of Mechanical Properties of a Novel Composite Material” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2016 - 2017. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

A BALAKRISHNA 16911A0305

K A MALLESH YADAV 16911A0326

V VISHNU 16911A0357

B SHASHI REDDY 17915A0308

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BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**MODELLING AND FABRICATIO OF ABRASIVE JET MACHINING**” is a bonafide project work submitted by

K.VINAY KUMAR GOUD	16911A03K4
S.PRITHVI	16911A03M9
S.RAJSHEKAR	17915A0351
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In partial fulfillment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.

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BONAFIDE CERTIFICATE

This is to certify that the project work entitled "EXPERIMENTAL INVESTIGATION ON MODELLING OF DISC BRAKE WITH COMPOSITE MATERIAL" is bonafide project work

submitted by

1. **K. SRIRAM (17915A0327)**
2. **K. SAI KUMAR (17915A0328)**
3. **K. MAHESH (17915A0329)**
4. **M. GOPI KRISHNA (17915A0338)**
5. **P. PRIYANKA (16911A03F6)**

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Asst. professor

HEAD OF DEPARTMENT


Dr. G. SREERAM REDDY

professor


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Department of Mechanical Engineering



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Department of Mechanical Engineering



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CERTIFICATE

This is to certify that the project report entitled "**SYNTHESIS OF TITANIA(TiO₂) NANO STRUCTURES WITH DIFFERENT MORPHOLOGIES**" has been submitted by the following students in partial fulfillment for the award of the degree of "**Bachelor of Technology**" in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

G. AJAY REDDY	(16911A0323)
K. DURGA PRASAD	(16911A0330)
K. RUCHITHA	(16911A0331)
P. DIVIJ REDDY	(16911A0346)

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Head of the Department
Dr. SREE RAMREDDY
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External Examiner

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BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**DESIGN AND DEVELOPMENT OF UNMANNED AERIAL VEHICLE**” is bona fide project work submitted by

V. ASHISH KUMAR	16911A03N3
K. SUMALATHA	16911A03K8
P. RITU VENNELA	16911A03M5
M.VIDYA RANI	17915A0340

In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.

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Associate Professor

Internal Examiner

HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor

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DEPARTMENT OF MECHANICAL ENGINEERING



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Professor

Head of the Department
Dr. SREE RAMREDDY
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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY (Autonomous)

Himayath Nagar (VI), C.B. Post, R.R Dist. 500075



CERTIFICATE

This to certify that the project work entitled “**IMPACT OF CORROSION ON THE FATIGUE LIFE OF AISI316L AUSTENITIC STAINLESS STEEL**”

is a bonafide work carried out by

MR. K. RAGHU (17915A0330)

MR. P.MANOHAR (16911A03F3)

MS. P. ROHITH (16911A03F5)

MS. K. SAI KIRAN (16911A03E2)

in partial fulfilment of the requirements for award of degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**

The content in the report has not been submitted to any other university or institute for the award of any degree or diploma.


PROJECT GUIDE

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Professor


Internal Examiner


HEAD OF THE DEPARTMENT

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Professor


External Examiner

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Himayath Nagar (VI), C.B. Post, R.R Dist. 500075



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PROJECT GUIDE

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DEPARTMENT OF MECHANICAL ENGINEERING

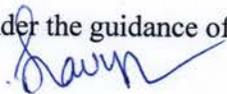


VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "ROCKER BOGIE SUSPENSION SYSTEM" is being submitted as a record bonafide work carried out by **A. HITESH KUMAR (16911A0361), G. BHANU PRASAD (16915A0374), L. NAVEEN KUMAR (16915A0389), R. SURYA TEJA (16911A03A7)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

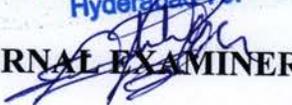

Ms. G. SRAVYA

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Dr. G. Sreeram Reddy


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CERTIFICATE

This is to certify that the project work entitled FABRICATION OF
HELIX WIND TURBINE WITH NYLON BLADES is a bonafide work carried out by

M.MAHESH (17915A0331)
M.PAVAN KALYAN REDDY (17915A0334)
M.BHARATHWAZ (17915A0335)
M.SAI DATHA (17915A0336)

in partial fulfillment of the requirements for the award of degree of **BACHELOR
OF TECHNOLOGY IN MECHANICAL ENGINEERING** to be awarded by the
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad.

The content in this report has not been submitted to any other university or
institute for the award of any degree or diploma


Mr. R.N.S.V. RAMAKANTH
Internal Supervisor
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Mr. G.SRIRAM REDDY
Head of the Department
Department of Mechanical Engineering


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DEPARTMENT OF MECHANICAL ENGINEERING



BONAFIDE CERTIFICATE

This is to certify that the project work entitled "Experimental Investigation of Mechanical Properties of Stainless Steel 304 Using TIG Welding Process"

is bonafide project work submitted by BANDA VIKAS YADAV(16911A0307) CHINTHA ARUN(16911A0313) DEVUNURI MANIRATNAM(16911A0315) MALGARI KRANTHI SWAROOP REDDY(16911A0333). In the department of MECHANICAL ENGINEERING in partial fulfilment of requirements for the award of degree of Bachelor of Technology in "Mechanical Engineering" for the academic year 2016-20. This work has been carried under the guidance of K.RAJESH KUMAR, Associate Professor and has not been submitted the same for any university/institution for award of any degree/diploma.


PROJECT GUIDE

Mr. K. RAJESH KUMAR


HEAD OF DEPARTMENT

Dr. G. SREERAM REDDY


PRINCIPAL
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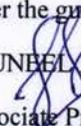
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

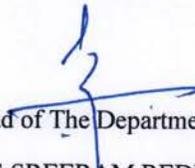
(Affiliated to Jawaharlal Nehru Technological University, Hyderabad)

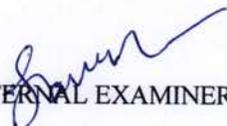
Aziznagar Gate, Chilkur Balaji Road, Hyderabad, TS-500075 DEPARTMENT OF MECHANICAL ENGINEERING

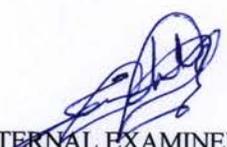
CERTIFICATE

This is to certify that the project report titled "AUTOMATION OF CONVENTIONAL LATHE" is being submitted as a record bonafide work carried out by **M. SHYAM PRASAD (17915A0333), M. SHIVA KUMAR (17915A0339), RANGA RITVIK(16911A03F9), SHAIK NADEEM AHMED(16911A03G5)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of

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Associate Professor


Head of The Department
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Professor


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CERTIFICATE

This is to certify that the project report entitled “INVESTIGATION OF MECHANICAL PROPERTIES OF POLYURETHANE COMPOSITES WITH QUARTZ” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

CH.SAI CHANDANA 16911A0366

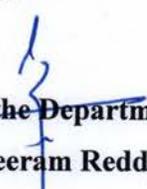
M.VINAY KUMAR 16911A0391

S.SAI KRISHNA 16911A03A8

T.NAVEEN 16911A03B3


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Professor


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CERTIFICATE

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M.BHARATHWAZ (17915A0335)

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Mr. R.N.S.V. RAMAKANTH
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Mr. G. SRIRAM REDDY
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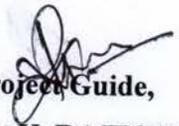
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project work entitled “**Experimental investigation of Mechanical properties of Mild steel AISI 1040 using MIG welding process**” is a bonafide work carried out by **M.PREM(16911A0334)**, **M.ARAVIND REDDY (16911A0342)**, **B.SURYA KANTH(16911A0306)**, **S.VAMSHI(16911A0351)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING to be awarded by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad.**

The content in this report has not been submitted to any other university or institute for the award of any degree or diploma.


Project Guide,
Mr.K. RAJESH KUMAR


Head of the Department
DR G. SREERAM REDDY
(Professor)


External Examiner


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Autonomous)

Himayathnagar (vi), C.B. Post, R.R Dist. 500075



CERTIFICATE

This is to certify that the project work entitled FABRICATION OF
HELIX WIND TURBINE WITH NYLON BLADES is a bonafide work carried out by

M.MAHESH (17915A0331)
M.PAVAN KALYAN REDDY (17915A0334)
M.BHARATHWAZ (17915A0335)
M.SAI DATHA (17915A0336)

in partial fulfillment of the requirements for the award of degree of **BACHELOR
OF TECHNOLOGY IN MECHANICAL ENGINEERING** to be awarded by the
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad.

The content in this report has not been submitted to any other university or
institute for the award of any degree or diploma


Mr. R.N.S.V. RAMAKANTH
Internal Supervisor
Department of Mechanical Engineering


Mr. G. SRIRAM REDDY
Head of the Department
Department of Mechanical Engineering


PRINCIPAL
Vidya Jyothi Institute of Technology
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Internal Supervisor
Department of Mechanical Engineering


Mr. G. SRIRAM REDDY
Head of the Department
Department of Mechanical Engineering


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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “DEVELOPMENT OF COMPOSITE MATERIALS USING VARIOUS FIBERS AND EPOXY RESIN ” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in MECHANICAL Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

B.SHIVANI	16911A0308
J.SWAPNA	16911A0325
M.VEENILA	16911A0336
UVS.CHANDAN	16911A0355

Project Guide,

MR.C.NAVEEN RAJ
(Assistant Professor)

Head of the Department

Dr. SREERAM REDDY
(Professor)

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vil), C.B. Post.,
Hyderabad-75.



BONAFIDE CERTIFICATE This is to certify that the project work entitled
“**FABRICATION AND TESTING OF TRACK LAYING AND AGGREGATE**

POURING MACHINE” is bonafide project work submitted by

M.BHANU CHANDER 16911A03L2

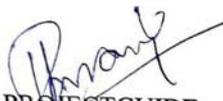
M.SANDEEP 16911A03L3

M.VAMAN SAI 16911A03L4

M.TARIQ ALI KHAN 16911A03L5

In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.


PROJECTGUIDE

MS P. PAVANI

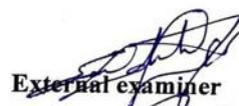
Professor


Internalexaminer


HEAD OF THE DEPARTMENT

DR.G. SREERAM REDDY

Professor


External examiner

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This to certify that the project report titled “IMPACT OF NOTCH TOPOLOGY ON THE FATIGUE LIFE OF UNS S32760 SUPER DUPLEX STAINLESS STEEL” is being submitted by

Mohammed Adil (16911A0337)

Mohammed Imaz Uddin (16911A0338)

P.Sourab (16911A0345)

Zubair Ahmed (16911A0360)

in the department of MECHANICAL ENGINEERING for the partial fulfillment of requirements for the award of degree of Bachelor of Technology in the academic year 2019-2020. This work has been carried out under our guidance and has not been submitted for any university/institution for the award of any Degree/Diploma.

INTERNAL GUIDES

Dr. V. PHANINDRA BOGU

Associate Professor, Dept. of Mechanical Engg.

Mr. J. JAGADESH KUMAR

HEAD OF THE DEPARTMENT

Dr. SREERAM REDDY

Professor, Dept. of Mechanical Engg.

External Examiner

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "EXPERIMENTAL INVESTIGATION ON DUAL FUEL DIESEL ENGINE" is being submitted as a record bonafide work carried out by **SHAMINE BASHEER K(16911A03B0), MOHAMMED ZOHEB UDDIN KHAN (16915A0395), MOHAMMED ARBAZ HUSSAIN (16915A0394), P.SRIKANTH (16911A03A2)** in partial fulfilment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, VidyaJyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

Mr. K. Ravikumar

Assistant Professor

Head of The Department

Dr. G. Sreeram Reddy

PRINCIPAL

**Vidya Jyothi Institute of Technology
Minayalnagar (VIII), C.B. Post.,
Hyderabad-75.**

INTERNAL EXAMINER

EXTERNAL EXAMINER

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This to certify that the project report titled “IMPACT OF NOTCH TOPOLOGY ON THE FATIGUE LIFE OF UNS S32760 SUPER DUPLEX STAINLESS STEEL” is being submitted by

Mohammed Adil (16911A0337)

Mohammed Imaz Uddin (16911A0338)

P.Sourab (16911A0345)

Zubair Ahmed (16911A0360)

in the department of MECHANICAL ENGINEERING for the partial fulfillment of requirements for the award of degree of Bachelor of Technology in the academic year 2019-2020. This work has been carried out under our guidance and has not been submitted for any university/institution for the award of any Degree/Diploma.

INTERNAL GUIDES

Dr. V. PHANINDRA BOGU

Associate Professor, Dept. of Mechanical Engg.

Mr. J. JAGADESH KUMAR

HEAD OF THE DEPARTMENT

Dr. SREERAM REDDY

Professor, Dept. of Mechanical Engg.

External Examiner

PRINCIPAL
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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

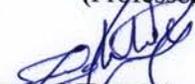
This is to certify that the Project report entitled “**ERGONOMIC BUDGET MINI CHOPPER**” has been submitted by the following students in partial fulfilment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this Project report have not been submitted to any other university or institute for the award of any degree.

MOHAMMED ISHAQ(16911A0339)

APNAGARI NAVEEN KUMAR(16911A0303)

ALLI VINAY KUMAR(17915A0303)


Project Guide
Mrs.J.EMEEMA
(Associate Professor)


Head of the Department
Dr.G.SREERAM REDDY
(Professor)

External Examiner

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.



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M.BHANU CHANDER 16911A03L2

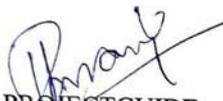
M.SANDEEP 16911A03L3

M.VAMAN SAI 16911A03L4

M.TARIQ ALI KHAN 16911A03L5

In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.


PROJECTGUIDE

MS P. PAVANI

Professor


Internal examiner


HEAD OF THE DEPARTMENT

DR.G. SREERAM REDDY

Professor


External examiner

DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "EXPERIMENTAL INVESTIGATION ON DUAL FUEL DIESEL ENGINE" is being submitted as a record bonafide work carried out by **SHAMINE BASHEER K(16911A03B0), MOHAMMED ZOHEB UDDIN KHAN (16915A0395), MOHAMMED ARBAZ HUSSAIN (16915A0394), P.SRIKANTH (16911A03A2)** in partial fulfilment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, VidyaJyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

Mr. K. Ravikumar

Assistant Professor

Head of The Department
Dr. G. Sreeram Reddy

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL
Vidya Jyothi Institute of Technology
Minayalnagar (VIII), C.B. Post.,
Hyderabad-75.

DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "INVESTIGATION OF MORPHOLOGY OF SILVER-IRON NANO POWDER" is being submitted as a record bonafide work carried out by **J.SHASHANK (16911A0381)**, **MOHD SANWAL AHMED (16911A0396)**, **P.SAI NATH (16915A03A1)**, **Y. SUDHEER YADAV (16911A03B6)** in partial fulfilment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

Mr. N. PRAVEEN

Asst. Professor

Head of The Department

Dr. G.SREE RAM REDDY

INTERNALEXAMINER

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

EXTERNAL EXAMINER

**VIDYA JYOTHI INSTITUTE OF
TECHNOLOGY
(Autonomous)**

Himayath Nagar (VI), C.B. Post, R.R Dist. 500075



CERTIFICATE

This to certify that the project work entitled “Effect of coating on AISI 316L Austenitic stainless steel for Tribological property evaluation” is a bonafide work carried out by

MR. SANDEEP (16911A03H2)

MR. M. AKHIL (16911A03F0)

MS. G. MOUNIKA (16911A03D1)

MS. G. TEJASHWINI (16911A03D3)

in partial fulfilment of the requirements for award of degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**

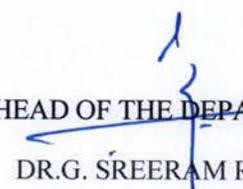
The content in the report has not been submitted to any other university or institute for the award of any degree or diploma.


PROJECT GUIDE

DR.V.V. SATYANARAYANA

Professor

Internal examiner


HEAD OF THE DEPARTMENT

DR.G. SREERAM REDDY

Professor

External examiner

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “**COMPARATIVE EVALUATION OF MILDSTEEL WELDED JOINTS EMPLOYED BY DEFFERENT PROCESSES**” has been submitted by the following students in partial fulfilment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technology University, Hyderabad, during the academic year 2016-2020

The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

S.SUNIL 16911A0352

T.SANDEEP 16911A0354

M.RAJKUMAR 16911A0341

B.NAGA 16911A0310

Project Guide


DR.V.V.SATYANARAYANA

(Professor) (Professor)


Head of the Department

DR.G.Sree RamReddy


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VII), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled "EXPERIMENTAL INVESTIGATION ON MODELLING OF DISC BRAKE WITH COMPOSITE MATERIAL" is bonafide project work

submitted by

1. K. SRIRAM (17915A0327)
2. K. SAI KUMAR (17915A0328)
3. K. MAHESH (17915A0329)
4. M. GOPI KRISHNA (17915A0338)
5. P. PRIYANKA (16911A03F6)

In partial fulfilment of requirements for the award of the degree of **Bachelor of Technology in Mechanical Engineering** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision. The result embodied in the report has not been submitted the same to any university/institution for the award of any Degree.

PROJECT GUIDE

G. RAJESH BABU

Asst. professor

HEAD OF DEPARTMENT

Dr. G. SREERAM REDDY

professor

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL

Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.



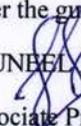
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

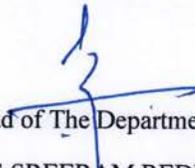
(Affiliated to Jawaharlal Nehru Technological University, Hyderabad)

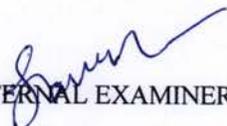
Aziznagar Gate, Chilkur Balaji Road, Hyderabad, TS-500075 DEPARTMENT OF MECHANICAL ENGINEERING

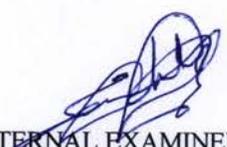
CERTIFICATE

This is to certify that the project report titled "AUTOMATION OF CONVENTIONAL LATHE" is being submitted as a record bonafide work carried out by **M. SHYAM PRASAD (17915A0333), M. SHIVA KUMAR (17915A0339), RANGA RITVIK(16911A03F9), SHAIK NADEEM AHMED(16911A03G5)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of

S. SUNBEL KUMAR
Associate Professor


Head of The Department
Dr.G.SREERAM REDDY
Professor


INTERNAL EXAMINER


EXTERNAL EXAMINER


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**DESIGN AND DEVELOPMENT OF UNMANNED AERIAL VEHICLE**” is bona fide project work submitted by

V. ASHISH KUMAR	16911A03N3
K. SUMALATHA	16911A03K8
P. RITU VENNELA	16911A03M5
M.VIDYA RANI	17915A0340

In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.

PROJECT GUIDE
Mr. SHAIK ISMAIL
Associate Professor

HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor

Internal Examiner

External Examiner

PRINCIPAL
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Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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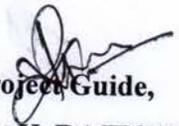
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project work entitled “**Experimental investigation of Mechanical properties of Mild steel AISI 1040 using MIG welding process**” is a bonafide work carried out by M.PREM(16911A0334), M.ARAVIND REDDY (16911A0342), B.SURYA KANTH(16911A0306), S.VAMSHI(16911A0351) in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING to be awarded by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad.**

The content in this report has not been submitted to any other university or institute for the award of any degree or diploma.


Project Guide,
Mr.K. RAJESH KUMAR


Head of the Department
DR G. SREERAM REDDY
(Professor)


External Examiner


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

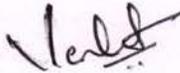
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
(Autonomous)
Aziz Nagar, Hyderabad -500075

A Project Report
On

**FABRICATION & TESTING OF MULTIPURPOSE
AGRICULTURAL MACHINE**

Submitted in partial fulfillment of the requirement for the award of degree of

**BACHELOR OF TECHNOLOGY
IN
MECHANICAL ENGINEERING**



Under the guidance of:
S.Venkatesh
Asst. Professor

Submitted by:

M.Arunkumar(17915A0341)
P.Madhu Sudan(17915A0347)
R.Ramakrishna (17915A0349)
S.Maheswar Reddy 17915A0350)



**DEPT OF MECHANICAL ENGINEERING
VJIT ENGINEERING COLLEGE
Aziz Nagar, C B Post, Hyderabad -500075**



PRINCIPAL
Vidya Jyothi Institute of Technolog
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY DEPARTMENT
OF MECHANICAL ENGINEERING**



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**EXPERIMENTAL INVESTIGATION OF ACETYLENE ASPIRATED DUAL FUEL DIESEL ENGINE WITH PALM STEARIN BIO-DIESEL BY VARYING COMPRESSION RATIO**” is bonafide project work submitted by

N. BALA KRISHNA	16911A0397
ROHIT AGARWAL	16911A03A6
P. SYAM KISHORE	16911A03B2
V. VENKATA LOHITH	16915A03B4

In the department of MECHANICAL ENGINEERING in partial fulfillment of requirements for the award of degree of bachelor of technology in “Mechanical Engineering” for the academic year 2017-18. This work has been carried under my guidance and has not been submitted the same for any university/institution for award of any degree/diploma.

S. Prasad Kumar
PROJECT GUIDE

Mr. S. PRASAD KUMAR

S. Prasad Kumar
Internal Examiner:

G. Sreeram Reddy
HEAD OF DEPARTMENT

Mr. G.SREERAM REDDY

A. Krishna
External Examiner:

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY



Department of Mechanical Engineering

BONAFIDE CERTIFICATE

This is to certify that the project work entitled “INVESTIGATION ON THE IMPACT OF NOTCH GEOMETRY ON THE FATIGUE LIFE OF SUPER DUPLEX SS UNS S31254”

is bonafide project work

submitted by

- 1. B. SRINATH (16911A03CO)**
- 2. P. CHINNASWAMY (16911A03F7)**
- 3. N. RAJESH (16911A03F2)**
- 4. B. SUNIL (16911A03G8)**

In partial fulfilment of requirements for the award of the degree of **Bachelor of Technology in Mechanical Engineering** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision. The result embodied in the report has not been submitted the same to any university/institution for the award of any Degree.

Mr. J.JAGADESH KUMAR

Internal Examiner

Dept of Mechanical engineering
engineering

Dr. G.SREERAM REDDY

Head of the Department

Dept of Mechanical

External

Examiner

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VII), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled "Analysis of XRD&SEM of Hematite and Magnite Nano crystallites using Novel arc discharge Method" is bona fide project work submitted by

N.DEVENDHAR (16911A03L9)

PRANADHEER (16911A03M6)

PSYAM KUMAR(16911A03M7)

U.RAJKUMAR (16911A03N2)

In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.


PROJECT GUIDE
Mr.HASAN
Associate Professor


Internal Examiner


HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor


External Examiner


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES OF SUBMERGED FRICTION STIR WELDING OF DISSIMILAR ALUMINIUM ALLOYS OF 5083 & 6061 AND COMPARE WITH FRICTION STIR WELDING**” is bona fide project work submitted by

G. ANUDEEP	16915A03J9
N. SWAMY	17915A0343
B. DINESH REDDY	16915A03H7
D. ANAND VARDHAN	16915A03J2

In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.



PROJECTGUIDE

MS P. PAVANI

Professor



Internalexaminer



PRINCIPAL
Vidya Jyothi Institute of Technology
Himavatnagar, C.B. Post.,



HEAD OF THE DEPARTMENT
DR.G. SREERAM REDDY

Professor



External examiner

DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "DESIGN AND CFD ANALYSIS OF A CAR REAR AEROFOIL" is being submitted as a record bonafide work carried out by **AJAY BIRADAR (16911A0362)**, **P.BHASKAR (16915A03A0)**, **P.RAHUL KUMAR (16915A03A3)**, **P.V.S MANOJ CHANDRA (16911A03A5)** in partial fulfilment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

Mr. M.Mallesh

Associate Professor

Head of The Department
Dr. G. Sreeram Reddy

PRINCIPAL
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Hyderabad-75.

INTERNAL EXAMINER

EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY (Autonomous)

Himayath Nagar (VI), C.B. Post, R.R Dist. 500075



CERTIFICATE

This to certify that the project work entitled “**IMPACT OF CORROSION ON THE FATIGUE LIFE OF AISI316L AUSTENITIC STAINLESS STEEL**”

is a bonafide work carried out by

MR. K. RAGHU (17915A0330)

MR. P.MANOHAR (16911A03F3)

MS. P. ROHITH (16911A03F5)

MS. K. SAI KIRAN (16911A03E2)

in partial fulfilment of the requirements for award of degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**

The content in the report has not been submitted to any other university or institute for the award of any degree or diploma.


PROJECT GUIDE

MS P. PAVANI

Professor


Internal Examiner


HEAD OF THE DEPARTMENT
DR.G. SREERAM REDDY

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External Examiner

DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "INVESTIGATION OF MORPHOLOGY OF SILVER-IRON NANO POWDER" is being submitted as a record bonafide work carried out by **J.SHASHANK (16911A0381)**, **MOHD SANWAL AHMED (16911A0396)**, **P.SAI NATH (16915A03A1)**, **Y. SUDHEER YADAV (16911A03B6)** in partial fulfilment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

Mr. N. PRAVEEN

Asst. Professor

Head of The Department

Dr. G.SREE RAM REDDY

INTERNALEXAMINER

EXTERNAL EXAMINER

DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "EXPERIMENTAL INVESTIGATION ON DUAL FUEL DIESEL ENGINE" is being submitted as a record bonafide work carried out by **SHAMINE BASHEER K(16911A03B0), MOHAMMED ZOHEB UDDIN KHAN (16915A0395), MOHAMMED ARBAZ HUSSAIN (16915A0394), P.SRIKANTH (16911A03A2)** in partial fulfilment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, VidyaJyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

Mr. K. Ravikumar

Assistant Professor

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INTERNAL EXAMINER

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EXTERNAL EXAMINER

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CERTIFICATE

This is to certify that the project work entitled “**DESIGN AND FABRICATION OF INTELLIGENT BRAKING SYSTEM**” is a Bonafide work carried out by **Mr.K. SHASHANK (16911A03K3), Mr.P.MURALI (17915A0345), Mr.P.SATISH REDDY (17915A0346), Mr.S.NAVEEN, (17915A0353), Mr.T.SANTHOSH (15911A03M7)** in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma

INTERNAL GUIDE,
Mr. P.SAMPATH KUMAR,
Associate Professor (CAD/CAM).

HEAD OF THE DEPARTMENT,
Dr. G.SREERAM REDDY,
Professor (Dept of Mechanical)

EXTERNAL EXAMINER,

PRINCIPAL
Vidya Jyothi Institute of Technology
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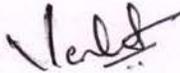
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
(Autonomous)
Aziz Nagar, Hyderabad -500075

A Project Report
On

**FABRICATION & TESTING OF MULTIPURPOSE
AGRICULTURAL MACHINE**

Submitted in partial fulfillment of the requirement for the award of degree of

**BACHELOR OF TECHNOLOGY
IN
MECHANICAL ENGINEERING**



Under the guidance of:
S.Venkatesh
Asst. Professor

Submitted by:
M.Arunkumar(17915A0341)
P.Madhu Sudan(17915A0347)
R.Ramakrishna (17915A0349)
S.Maheswar Reddy 17915A0350)



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PRINCIPAL
Vidya Jyothi Institute of Technolog
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This to certify that the project report titled “**IMPACT OF NOTCH TOPOLOGY ON THE FATIGUE LIFE OF UNS S32760 SUPER DUPLEX STAINLESS STEEL**” is being submitted by

Mohammed Adil (16911A0337)

Mohammed Imaz Uddin (16911A0338)

P.Sourab (16911A0345)

Zubair Ahmed (16911A0360)

in the department of MECHANICAL ENGINEERING for the partial fulfillment of requirements for the award of degree of Bachelor of Technology in the academic year 2019-2020. This work has been carried out under our guidance and has not been submitted for any university/institution for the award of any Degree/Diploma.

INTERNAL GUIDES

Dr. V. PHANINDRA BOGU

Associate Professor, Dept. of Mechanical Engg.

Mr. J. JAGADESH KUMAR

HEAD OF THE DEPARTMENT

Dr. SREERAM REDDY

Professor, Dept. of Mechanical Engg.

External Examiner

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Hyderabad-75.

DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "DESIGN AND CFD ANALYSIS OF A CAR REAR AEROFOIL" is being submitted as a record bonafide work carried out by **AJAY BIRADAR (16911A0362), P.BHASKAR (16915A03A0), P.RAHUL KUMAR (16915A03A3), P.V.S MANOJ CHANDRA (16911A03A5)** in partial fulfilment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

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Associate Professor

Head of The Department
Dr. G. Sreeram Reddy

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INTERNAL EXAMINER

EXTERNAL EXAMINER

242



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to
Jawaharlal Nehru Technological University, Hyderabad

CERTIFICATE

This is to certify that the dissertation entitled — **MODELING AND ANALYSIS OF HUMAN FEMUR BONE USING FEM** is a bonafide work carried out by **S. DEEPIKA (16911A03J3), D.D.N.SAI SUPRIYA (16911A03J4), IBRAHIM BIN ABDHULLAH (16911A03K1), J.HEAMANTH REDDY (16911A03K2), RAHUL PATIL (16911A03M4)** in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, Under our Guidance and Supervision

The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide
J. Pradeep Kumar
Mr. J. PRADEEP KUMAR
Assistant Professor

Head of the Department
Dr. G. Sreeram Reddy
Dr. G. SREERAM REDDY,

[Signature]
EXTERNAL EXAMINER

A. Prasad
PRINCIPAL
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(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, ChilkurRoad,Hyderabad– 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled "**SYNTHESIS OF TITANIA(TiO₂) NANO STRUCTURES WITH DIFFERENT MORPHOLOGIES**" has been submitted by the following students in partial fulfillment for the award of the degree of "**Bachelor of Technology**" in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

G. AJAY REDDY	(16911A0323)
K. DURGA PRASAD	(16911A0330)
K. RUCHITHA	(16911A0331)
P. DIVIJ REDDY	(16911A0346)

Project Guide,
Dr. B.V. REDDI
Professor

Head of the Department
Dr. SREE RAMREDDY
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External Examiner

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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY (Autonomous)

Himayath Nagar (VI), C.B. Post, R.R Dist. 500075



CERTIFICATE

This to certify that the project work entitled “**IMPACT OF CORROSION ON THE FATIGUE LIFE OF AISI316L AUSTENITIC STAINLESS STEEL**”

is a bonafide work carried out by

MR. K. RAGHU (17915A0330)

MR. P.MANOHAR (16911A03F3)

MS. P. ROHITH (16911A03F5)

MS. K. SAI KIRAN (16911A03E2)

in partial fulfilment of the requirements for award of degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**

The content in the report has not been submitted to any other university or institute for the award of any degree or diploma.


PROJECT GUIDE

MS P. PAVANI

Professor


Internal Examiner


HEAD OF THE DEPARTMENT

DR.G. SREERAM REDDY

Professor


External Examiner

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**DESIGN AND DEVELOPMENT OF UNMANNED AERIAL VEHICLE**” is bona fide project work submitted by

V. ASHISH KUMAR	16911A03N3
K. SUMALATHA	16911A03K8
P. RITU VENNELA	16911A03M5
M.VIDYA RANI	17915A0340

In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.

PROJECT GUIDE
Mr. SHAIK ISMAIL
Associate Professor

Internal Examiner

HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor

External Examiner
PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled "EXPERIMENTAL INVESTIGATION ON MODELLING OF DISC BRAKE WITH COMPOSITE MATERIAL" is bonafide project work

submitted by

1. K. SRIRAM (17915A0327)
2. K. SAI KUMAR (17915A0328)
3. K. MAHESH (17915A0329)
4. M. GOPI KRISHNA (17915A0338)
5. P. PRIYANKA (16911A03F6)

In partial fulfilment of requirements for the award of the degree of **Bachelor of Technology in Mechanical Engineering** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision. The result embodied in the report has not been submitted the same to any university/institution for the award of any Degree.

PROJECT GUIDE

G. RAJESH BABU

Asst. professor

HEAD OF DEPARTMENT

Dr. G. SREERAM REDDY

professor

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL

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Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled "Analysis of XRD&SEM of Hematite and Magnite Nano crystallites using Novel arc discharge Method" is bona fide project work submitted by

N.DEVENDHAR (16911A03L9)

PRANADHEER (16911A03M6)

PSYAM KUMAR(16911A03M7)

U.RAJKUMAR (16911A03N2)

In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

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PROJECT GUIDE
Mr.HASAN
Associate Professor


Internal Examiner


HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor


External Examiner


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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY



Department of Mechanical Engineering

BONAFIDE CERTIFICATE

This is to certify that the project work entitled “INVESTIGATION ON THE IMPACT OF NOTCH GEOMETRY ON THE FATIGUE LIFE OF SUPER DUPLEX SS UNS S31254”

is bonafide project work

submitted by

1. B. SRINATH (16911A03CO)

2. P. CHINNASWAMY (16911A03F7)

3. N. RAJESH (16911A03F2)

4. B. SUNIL (16911A03G8)

In partial fulfilment of requirements for the award of the degree of **Bachelor of Technology in Mechanical Engineering** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision. The result embodied in the report has not been submitted the same to any university/institution for the award of any Degree.

Mr. J.JAGADESH KUMAR

Internal Examiner

Dept of Mechanical engineering
engineering

Dr. G.SREERAM REDDY

Head of the Department

Dept of Mechanical

External

Examiner

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VII), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering

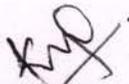


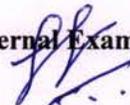
BONAFIDE CERTIFICATE This is to certify that the project work entitled “An experimental investigation of the performance and emissions of a hydrogen-diesel dual fuel compression ignition internal combustion engine” is bonafide project work submitted by

JAYA SHIVA KUMAR DACHAPALLY	16911A03J0
PUSKURI VENKAT	17915A0348
NAGRAJ SWARNAKAR	16911A03N0
SYED AFZAL AFNAAN	16911A03N1

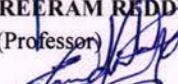
In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

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PROJECT GUIDE
K.ASHOK CHARY
(Associate Professor)


Internal Examiner


HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
(Professor)


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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



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PRANADHEER (16911A03M6)

PSYAM KUMAR(16911A03M7)

U.RAJKUMAR (16911A03N2)

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PROJECT GUIDE
Mr.HASAN
Associate Professor


Internal Examiner


HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor


External Examiner


PRINCIPAL
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Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Under the guidance of,

Mr. M.Mallesh

Associate Professor

Head of The Department
Dr. G. Sreeram Reddy

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INTERNAL EXAMINER

EXTERNAL EXAMINER

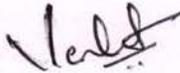
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
(Autonomous)
Aziz Nagar, Hyderabad -500075

A Project Report
On

**FABRICATION & TESTING OF MULTIPURPOSE
AGRICULTURAL MACHINE**

Submitted in partial fulfillment of the requirement for the award of degree of

**BACHELOR OF TECHNOLOGY
IN
MECHANICAL ENGINEERING**



Under the guidance of:
S.Venkatesh
Asst. Professor

Submitted by:
M.Arunkumar(17915A0341)
P.Madhu Sudan(17915A0347)
R.Ramakrishna (17915A0349)
S.Maheswar Reddy 17915A0350)



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Aziz Nagar, C B Post, Hyderabad -500075**



PRINCIPAL
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Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.



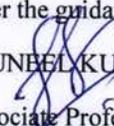
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

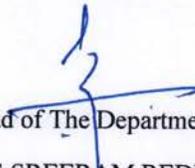
(Affiliated to Jawaharlal Nehru Technological University, Hyderabad)

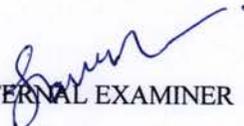
Aziznagar Gate, Chilkur Balaji Road, Hyderabad, TS-500075 DEPARTMENT OF MECHANICAL ENGINEERING

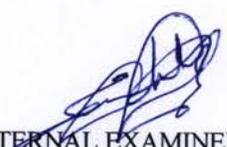
CERTIFICATE

This is to certify that the project report titled "AUTOMATION OF CONVENTIONAL LATHE" is being submitted as a record bonafide work carried out by **M. SHYAM PRASAD (17915A0333)**, **M. SHIVA KUMAR (17915A0339)**, **RANGA RITVIK(16911A03F9)**, **SHAIK NADEEM AHMED(16911A03G5)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of

S. SUNBEL KUMAR
Associate Professor


Head of The Department
Dr.G.SREERAM REDDY
Professor


INTERNAL EXAMINER


EXTERNAL EXAMINER


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report titled “**FRICTION STIR WELDING OF DISSIMILAR ALUMINIUM ALLOYS BY ADDING BORAN CARBIDE POWDER**” has been submitted by

A.NARENDAR REDDY	(16911A03B8)
C.SAI SUMANTH CHARY	(16911A03C8)
R.VINOD KUMAR	(16911A03G0)
S.SAI SANDEEP YADAV	(16911A03G7)

In the partial fulfillment of the requirements for the award of the **B.tech** Degree in **MECHANICAL ENGINEERING** from the **Vidya Jyothi Institute Of Technology**, Hyderabad is a bonafied work carried out by them during the academic year 2019- 2020.

INTERNAL GUIDE,
Mr. P.SAMPATH KUMAR,
Associate Professor (CAD/CAM).

HEAD OF THE DEPARTMENT,
Dr. G.SREERAM REDDY,
Professor (Dept of Mechanical)

EXTERNAL EXAMINER,

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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Autonomous)

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “The Effect of Al₂O₃ on the performance of Single stage Solar still” is bonafide project work submitted by

1. R.R.RAGHAVENDRA REDDY (16911A03G1)
2. V.KOMAL TEERTHA (16911A03HO)
3. G.NITHIN VARMA (16911A03D0)
4. E.VARUN (16911A03C9)

In partial fulfilment of requirements for the award of the degree of **Bachelor of Technology in Mechanical Engineering** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for the award of any Degree.


PROJECT GUIDE

Dr. L. MADAN ANANDA KUMAR

Associate Professor


HEAD OF DEPARTMENT

Dr. G. SREERAM REDDY

Professor


Internal Examiner


PRINCIPAL
Vidya Jyothi Institute of Technology
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Hyderabad-75.


External Examiner

**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY DEPARTMENT
OF MECHANICAL ENGINEERING**



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**EXPERIMENTAL INVESTIGATION OF ACETYLENE ASPIRATED DUAL FUEL DIESEL ENGINE WITH PALM STEARIN BIO-DIESEL BY VARYING COMPRESSION RATIO**” is bonafide project work submitted by

N. BALA KRISHNA	16911A0397
ROHIT AGARWAL	16911A03A6
P. SYAM KISHORE	16911A03B2
V. VENKATA LOHITH	16915A03B4

In the department of MECHANICAL ENGINEERING in partial fulfillment of requirements for the award of degree of bachelor of technology in “Mechanical Engineering” for the academic year 2017-18. This work has been carried under my guidance and has not been submitted the same for any university/institution for award of any degree/diploma.

S. Prasad Kumar
PROJECT GUIDE
Mr. S. PRASAD KUMAR

[Signature]
Internal Examiner:

[Signature]
HEAD OF DEPARTMENT
Mr. G.SREERAM REDDY

[Signature]
External Examiner:

PRINCIPAL
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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the work reported in the present project entitled **“DESIGN AND MANUFACTURING OF CUSTOM SLIPPER SOLE USING LATTICE STRUCTURES”** is a record of work done by us in the department of MECHANICAL Engineering, Vidya Jyothi Institute of Technology (Autonomous), Jawaharlal Nehru technological university, Hyderabad. The reports based on the project work done entirely by us and not copied from any other source.

Mr. G. SESHANTH (16911A0322),

Mr. R. NAVEEN (16911A0348),

Mr. V. PAVAN SUDHAKAR (16911A0358),

Miss. Y. LAXMI PRASANNA (16911A0359)

Project Guide,

Dr. V. Phanindra Bogu
(Associate Professor)

Head of the Department

DR G. SREERAM REDDY
(Professor)

External Examiner

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DEPARTMENT OF MECHANICAL ENGINEERING

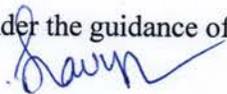


VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "ROCKER BOGIE SUSPENSION SYSTEM" is being submitted as a record bonafide work carried out by **A. HITESH KUMAR (16911A0361), G. BHANU PRASAD (16915A0374), L. NAVEEN KUMAR (16915A0389), R. SURYA TEJA (16911A03A7)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

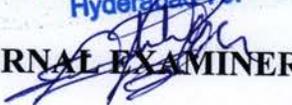

Ms. G. SRAVYA

Professor

Head of The Department


Dr. G. Sreeram Reddy


INTERNAL EXAMINER


EXTERNAL EXAMINER


PRINCIPAL
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DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “Evaluation of Mechanical Properties of a Novel Composite Material” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

S RAMANUJAM 16911A0349

B JAYACHANDRA 17915A0307

B SAI HARIHARAN 17915A0311

B DIKSHITH 17915A0312

Project Guide

T. Pavan Kumar

(Assistant Professor)

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(Professor)

External Examiner

A. Pavan Kumar

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DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “INVESTIGATION OF MECHANICAL PROPERTIES OF POLYURETHANE COMPOSITES WITH QUARTZ” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

CH.SAI CHANDANA 16911A0366

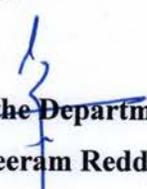
M.VINAY KUMAR 16911A0391

S.SAI KRISHNA 16911A03A8

T.NAVEEN 16911A03B3


Project Guide,
DR. B V REDDI
Professor

Professor


Head of the Department
Dr G. Sreeram Reddy


External Examiner


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BONAFIDE CERTIFICATE

This is to certify that the project work entitled “Validation of Empirical Method & Finite Element Method for Evaluation of Fatigue Parameter of Steels.” is bonafide project work submitted by HARSH LAHOTI (16911A03D4), CH. SANATH CHANDRA (16911A03C7), GAYATRI VELAMURI (16911A03G2) and S. ANISHA REDDY (16911A03G6). In partial fulfillment of requirements for the award of the degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING to be awarded by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad

The content in this report has not been submitted to other universities/institutions for the award of any Degree.

PROJECT GUIDE
Mr. J. JAGADESH KUMAR
Associate Professor

HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor

Internal Supervisor

External Supervisor

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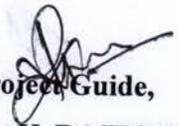
DEPARTMENT OF MECHANICAL ENGINEERING



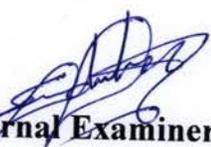
CERTIFICATE

This is to certify that the project work entitled “**Experimental investigation of Mechanical properties of Mild steel AISI 1040 using MIG welding process**” is a bonafide work carried out by M.PREM(16911A0334), M.ARAVIND REDDY (16911A0342), B.SURYA KANTH(16911A0306), **S.VAMSHI(16911A0351)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING to be awarded by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad.**

The content in this report has not been submitted to any other university or institute for the award of any degree or diploma.


Project Guide,
Mr.K. RAJESH KUMAR


Head of the Department
DR G. SREERAM REDDY
(Professor)


External Examiner


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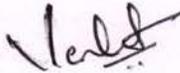
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
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Aziz Nagar, Hyderabad -500075

A Project Report
On

**FABRICATION & TESTING OF MULTIPURPOSE
AGRICULTURAL MACHINE**

Submitted in partial fulfillment of the requirement for the award of degree of

**BACHELOR OF TECHNOLOGY
IN
MECHANICAL ENGINEERING**



Under the guidance of:
S.Venkatesh
Asst. Professor

Submitted by:
M.Arunkumar(17915A0341)
P.Madhu Sudan(17915A0347)
R.Ramakrishna (17915A0349)
S.Maheswar Reddy 17915A0350)



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CERTIFICATE

This is to certify that the project work entitled “**DESIGN AND FABRICATION OF INTELLIGENT BRAKING SYSTEM**” is a Bonafide work carried out by **Mr.K. SHASHANK (16911A03K3), Mr.P.MURALI (17915A0345), Mr.P.SATISH REDDY (17915A0346), Mr.S.NAVEEN, (17915A0353), Mr.T.SANTHOSH (15911A03M7)** in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma

INTERNAL GUIDE,
Mr. P.SAMPATH KUMAR,
Associate Professor (CAD/CAM).

HEAD OF THE DEPARTMENT,
Dr. G.SREERAM REDDY,
Professor (Dept of Mechanical)

EXTERNAL EXAMINER,

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DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “**COMPARATIVE EVALUATION OF MILDSTEEL WELDED JOINTS EMPLOYED BY DEFFERENT PROCESSES**” has been submitted by the following students in partial fulfilment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technology University, Hyderabad, during the academic year 2016-2020

The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

S.SUNIL 16911A0352

T.SANDEEP 16911A0354

M.RAJKUMAR 16911A0341

B.NAGA 16911A0310

Project Guide

DR.V.V.SATYANARAYANA

(Professor) (Professor)

Head of the Department

DR.G.Sree RamReddy

A. Ramana
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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**MODELLING AND FABRICATIO OF ABRASIVE JET MACHINING**” is a bonafide project work submitted by

K.VINAY KUMAR GOUD	16911A03K4
S.PRITHVI	16911A03M9
S.RAJSHEKAR	17915A0351
SHAIK YAKOOB BABA	17915A0352

In partial fulfillment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.

Project guide
Mr.S.VENKATESH
(Assistant Professor) (Professor)

Head Of the Department
Dr.G.SREERAM REDDY

Internal Examiner

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

External Examiner



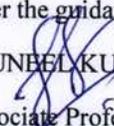
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

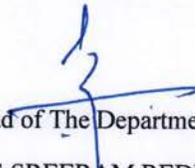
(Affiliated to Jawaharlal Nehru Technological University, Hyderabad)

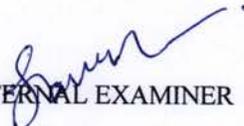
Aziznagar Gate, Chilkur Balaji Road, Hyderabad, TS-500075 DEPARTMENT OF MECHANICAL ENGINEERING

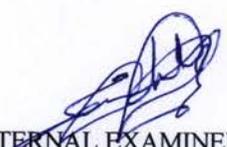
CERTIFICATE

This is to certify that the project report titled "AUTOMATION OF CONVENTIONAL LATHE" is being submitted as a record bonafide work carried out by **M. SHYAM PRASAD (17915A0333)**, **M. SHIVA KUMAR (17915A0339)**, **RANGA RITVIK(16911A03F9)**, **SHAIK NADEEM AHMED(16911A03G5)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of

S. SUNBEL KUMAR
Associate Professor


Head of The Department
Dr.G.SREERAM REDDY
Professor


INTERNAL EXAMINER


EXTERNAL EXAMINER


PRINCIPAL
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Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**MODELLING AND FABRICATIO OF ABRASIVE JET MACHINING**” is a bonafide project work submitted by

K.VINAY KUMAR GOUD	16911A03K4
S.PRITHVI	16911A03M9
S.RAJSHEKAR	17915A0351
SHAIK YAKOOB BABA	17915A0352

In partial fulfillment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.

Project guide
Mr.S.VENKATESH
(Assistant Professor) (Professor)

Head Of the Department
Dr.G.SREERAM REDDY

Internal Examiner

PRINCIPAL
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Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

External Examiner

DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "EXPERIMENTAL INVESTIGATION ON DUAL FUEL DIESEL ENGINE" is being submitted as a record bonafide work carried out by **SHAMINE BASHEER K(16911A03B0)**, **MOHAMMED ZOHEB UDDIN KHAN (16915A0395)**, **MOHAMMED ARBAZ HUSSAIN (16915A0394)**, **P.SRIKANTH (16911A03A2)** in partial fulfilment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, VidyaJyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

Mr. K. Ravikumar

Assistant Professor

Head of The Department

Dr. G. Sreeram Reddy

INTERNAL EXAMINER

EXTERNAL EXAMINER

PRINCIPAL
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Minayalnagar (VIII), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**MODELLING AND FABRICATIO OF ABRASIVE JET MACHINING**” is a bonafide project work submitted by

K.VINAY KUMAR GOUD	16911A03K4
S.PRITHVI	16911A03M9
S.RAJSHEKAR	17915A0351
SHAIK YAKOOB BABA	17915A0352

In partial fulfillment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.

Project guide
Mr.S.VENKATESH
(Assistant Professor) (Professor)

Head Of the Department
Dr.G.SREERAM REDDY

Internal Examiner

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Hyderabad-75.

External Examiner

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(Autonomous)

Aziz Nagar gate, CB Post, Hyderabad-500075



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “Validation of Empirical Method & Finite Element Method for Evaluation of Fatigue Parameter of Steels.” is bonafide project work submitted by HARSH LAHOTI (16911A03D4), CH. SANATH CHANDRA (16911A03C7), GAYATRI VELAMURI (16911A03G2) and S. ANISHA REDDY (16911A03G6). In partial fulfillment of requirements for the award of the degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING to be awarded by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad

The content in this report has not been submitted to other universities/institutions for the award of any Degree.

PROJECT GUIDE
Mr. J. JAGADESH KUMAR
Associate Professor

HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor

Internal Supervisor

External Supervisor

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report titled “**FRICTION STIR WELDING OF DISSIMILAR ALUMINIUM ALLOYS BY ADDING BORAN CARBIDE POWDER**” has been submitted by

A.NARENDAR REDDY	(16911A03B8)
C.SAI SUMANTH CHARY	(16911A03C8)
R.VINOD KUMAR	(16911A03G0)
S.SAI SANDEEP YADAV	(16911A03G7)

In the partial fulfillment of the requirements for the award of the **B.tech** Degree in **MECHANICAL ENGINEERING** from the **Vidya Jyothi Institute Of Technology**, Hyderabad is a bonafied work carried out by them during the academic year 2019- 2020.

INTERNAL GUIDE,
Mr. P.SAMPATH KUMAR,
Associate Professor (CAD/CAM).

HEAD OF THE DEPARTMENT,
Dr. G.SREERAM REDDY,
Professor (Dept of Mechanical)

EXTERNAL EXAMINER,

PRINCIPAL
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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
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HIMAYATHNAGAR (VI) C.B. POST, RR DIST.500075



CERTIFICATE

This is to certify that the project work entitled “**DESIGN AND FABRICATION OF INTELLIGENT BRAKING SYSTEM**” is a Bonafide work carried out by **Mr.K. SHASHANK (16911A03K3), Mr.P.MURALI (17915A0345), Mr.P.SATISH REDDY (17915A0346), Mr.S.NAVEEN, (17915A0353), Mr.T.SANTHOSH (15911A03M7)** in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma

INTERNAL GUIDE,
Mr. P.SAMPATH KUMAR,
Associate Professor (CAD/CAM).

HEAD OF THE DEPARTMENT,
Dr. G.SREERAM REDDY,
Professor (Dept of Mechanical)

EXTERNAL EXAMINER,

PRINCIPAL
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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY



Department of Mechanical Engineering

BONAFIDE CERTIFICATE

This is to certify that the project work entitled “INVESTIGATION ON THE IMPACT OF NOTCH GEOMETRY ON THE FATIGUE LIFE OF SUPER DUPLEX SS UNS S31254”

is bonafide project work

submitted by

- 1. B. SRINATH (16911A03CO)**
- 2. P. CHINNASWAMY (16911A03F7)**
- 3. N. RAJESH (16911A03F2)**
- 4. B. SUNIL (16911A03G8)**

In partial fulfilment of requirements for the award of the degree of **Bachelor of Technology in Mechanical Engineering** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision. The result embodied in the report has not been submitted the same to any university/institution for the award of any Degree.

Mr. J.JAGADESH KUMAR

Internal Examiner

Dept of Mechanical engineering
engineering

Dr. G.SREERAM REDDY

Head of the Department

Dept of Mechanical

External

Examiner

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Hyderabad-75.

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Department of Mechanical Engineering

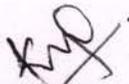


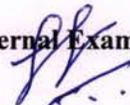
BONAFIDE CERTIFICATE This is to certify that the project work entitled “An experimental investigation of the performance and emissions of a hydrogen-diesel dual fuel compression ignition internal combustion engine” is bonafide project work submitted by

JAYA SHIVA KUMAR DACHAPALLY	16911A03J0
PUSKURI VENKAT	17915A0348
NAGRAJ SWARNAKAR	16911A03N0
SYED AFZAL AFNAAN	16911A03N1

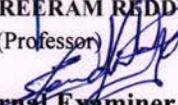
In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.


PROJECT GUIDE
K.ASHOK CHARY
(Associate Professor)


Internal Examiner


HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
(Professor)


External Examiner

PRINCIPAL
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Hyderabad-75.

**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY DEPARTMENT
OF MECHANICAL ENGINEERING**



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**EXPERIMENTAL INVESTIGATION OF ACETYLENE ASPIRATED DUAL FUEL DIESEL ENGINE WITH PALM STEARIN BIO-DIESEL BY VARYING COMPRESSION RATIO**” is bonafide project work submitted by

N. BALA KRISHNA	16911A0397
ROHIT AGARWAL	16911A03A6
P. SYAM KISHORE	16911A03B2
V. VENKATA LOHITH	16915A03B4

In the department of MECHANICAL ENGINEERING in partial fulfillment of requirements for the award of degree of bachelor of technology in “Mechanical Engineering” for the academic year 2017-18. This work has been carried under my guidance and has not been submitted the same for any university/institution for award of any degree/diploma.

S. Prasad Kumar
PROJECT GUIDE
Mr. S. PRASAD KUMAR

S. Prasad Kumar
Internal Examiner:

G. Sreeram Reddy
HEAD OF DEPARTMENT
Mr. G.SREERAM REDDY

A. Krishna
External Examiner:

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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering

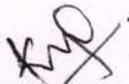


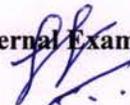
BONAFIDE CERTIFICATE This is to certify that the project work entitled “An experimental investigation of the performance and emissions of a hydrogen-diesel dual fuel compression ignition internal combustion engine” is bonafide project work submitted by

JAYA SHIVA KUMAR DACHAPALLY	16911A03J0
PUSKURI VENKAT	17915A0348
NAGRAJ SWARNAKAR	16911A03N0
SYED AFZAL AFNAAN	16911A03N1

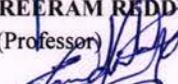
In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.


PROJECT GUIDE
K.ASHOK CHARY
(Associate Professor)


Internal Examiner


HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
(Professor)


External Examiner

PRINCIPAL
Vidya Jyothi Institute of Technology
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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “**COMPARATIVE EVALUATION OF MILDSTEEL WELDED JOINTS EMPLOYED BY DEFFERENT PROCESSES**” has been submitted by the following students in partial fulfilment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technology University, Hyderabad, during the academic year 2016-2020

The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

S.SUNIL 16911A0352

T.SANDEEP 16911A0354

M.RAJKUMAR 16911A0341

B.NAGA 16911A0310

Project Guide

DR.V.V.SATYANARAYANA

(Professor) (Professor)

Head of the Department

DR.G.Sree RamReddy


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DEPARTMENT OF MECHANICAL ENGINEERING



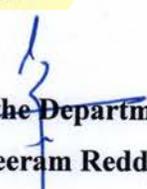
CERTIFICATE

This is to certify that the project report entitled “INVESTIGATION OF MECHANICAL PROPERTIES OF POLYURETHANE COMPOSITES WITH QUARTZ” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

CH.SAI CHANDANA	16911A0366
M.VINAY KUMAR	16911A0391
S.SAI KRISHNA	16911A03A8
T.NAVEEN	16911A03B3


Project Guide,
DR. B V REDDI
Professor

Professor


Head of the Department
Dr G. Sreeram Reddy


External Examiner


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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled "Analysis of XRD&SEM of Hematite and Magnite Nano crystallites using Novel arc discharge Method" is bona fide project work submitted by

N.DEVENDHAR (16911A03L9)

PRANADHEER (16911A03M6)

PSYAM KUMAR(16911A03M7)

U.RAJKUMAR (16911A03N2)

In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.


PROJECT GUIDE
Mr.HASAN
Associate Professor


Internal Examiner


HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor


External Examiner


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DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “DEVELOPMENT OF COMPOSITE MATERIALS USING VARIOUS FIBERS AND EPOXY RESIN ” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in MECHANICAL Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2019 - 2020. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

B.SHIVANI	16911A0308
J.SWAPNA	16911A0325
M.VEENILA	16911A0336
UVS.CHANDAN	16911A0355

Project Guide,

MR.C.NAVEEN RAJ
(Assistant Professor)

Head of the Department

Dr. SREERAM REDDY
(Professor)

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vil), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**DESIGN AND DEVELOPMENT OF UNMANNED AERIAL VEHICLE**” is bona fide project work submitted by

V. ASHISH KUMAR	16911A03N3
K. SUMALATHA	16911A03K8
P. RITU VENNELA	16911A03M5
M.VIDYA RANI	17915A0340

In partial fulfilment of requirements for the award of degree of **Bachelor of Technology in Mechanical Engineering** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for award of any Degree.

PROJECT GUIDE
Mr. SHAIK ISMAIL
Associate Professor

HEAD OF DEPARTMENT
Dr. G. SREERAM REDDY
Professor

Internal Examiner

External Examiner

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY DEPARTMENT
OF MECHANICAL ENGINEERING**



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “**EXPERIMENTAL INVESTIGATION OF ACETYLENE ASPIRATED DUAL FUEL DIESEL ENGINE WITH PALM STEARIN BIO-DIESEL BY VARYING COMPRESSION RATIO**” is bonafide project work submitted by

N. BALA KRISHNA	16911A0397
ROHIT AGARWAL	16911A03A6
P. SYAM KISHORE	16911A03B2
V. VENKATA LOHITH	16915A03B4

In the department of MECHANICAL ENGINEERING in partial fulfillment of requirements for the award of degree of bachelor of technology in “Mechanical Engineering” for the academic year 2017-18. This work has been carried under my guidance and has not been submitted the same for any university/institution for award of any degree/diploma.

S. Prasad Kumar
PROJECT GUIDE

Mr. S. PRASAD KUMAR

[Signature]
Internal Examiner:

[Signature]
HEAD OF DEPARTMENT

Mr. G.SREERAM REDDY

[Signature]
External Examiner:

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Autonomous)

Department of Mechanical Engineering



BONAFIDE CERTIFICATE

This is to certify that the project work entitled “The Effect of Al₂O₃ on the performance of Single stage Solar still” is bonafide project work submitted by

1. R.R.RAGHAVENDRA REDDY (16911A03G1)
2. V.KOMAL TEERTHA (16911A03HO)
3. G.NITHIN VARMA (16911A03D0)
4. E.VARUN (16911A03C9)

In partial fulfilment of requirements for the award of the degree of **Bachelor of Technology in Mechanical Engineering** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision.

The result embodied in the report has not been submitted the same to any university/institution for the award of any Degree.


PROJECT GUIDE

Dr. L. MADAN ANANDA KUMAR

Associate Professor


HEAD OF DEPARTMENT

Dr. G. SREERAM REDDY

Professor


Internal Examiner


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External Examiner



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to Jawaharlal Nehru Technological University, Hyderabad)

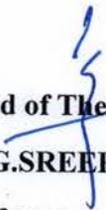
Aziznagar Gate, Chilkur Balaji Road, Hyderabad, TS-500075

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

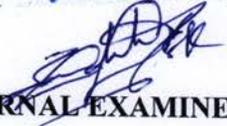
This is to certify that the project report titled “**THE EFFECT OF VARIOUS MATERIALS ON PERFORMANCE OF THERMAL ENERGY STORAGE TANK**” is being submitted as a record bonafide work carried out by **N.BHAVANI (16911A0399), T.VANDANA (16911A0B5), CH.SHASHANK (17915A0316), E.SRIKANTH REDDY (17915A0321)** in partial fulfillment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of 
Dr.L.MADAN ANANDA KUMAR
Associate Professor


Head of The Department
Dr.G.SREERAM REDDY
Professor


INTERNAL EXAMINER


PRINCIPAL
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EXTERNAL EXAMINER

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DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled “Evaluation of Mechanical Properties of a Novel Composite Material” has been submitted by the following students in partial fulfillment for the award of the degree of “Bachelor of Technology” in Mechanical Engineering to Jawaharlal Nehru Technological University, Hyderabad, during the academic year 2016 - 2017. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree.

A BALAKRISHNA 16911A0305

K A MALLESH YADAV 16911A0326

V VISHNU 16911A0357

B SHASHI REDDY 17915A0308

Project Guide,

S RAMAKRISHNA

(Assistant Professor)

Head of the Department
DR G. SREERAM REDDY

(Professor)

External Examiner

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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the work reported in the present project entitled **“DESIGN AND MANUFACTURING OF CUSTOM SLIPPER SOLE USING LATTICE STRUCTURES”** is a record of work done by us in the department of MECHANICAL Engineering, Vidya Jyothi Institute of Technology (Autonomous), Jawaharlal Nehru technological university, Hyderabad. The reports based on the project work done entirely by us and not copied from any other source.

Mr. G. SESHANTH (16911A0322),

Mr. R. NAVEEN (16911A0348),

Mr. V. PAVAN SUDHAKAR (16911A0358),

Miss. Y. LAXMI PRASANNA (16911A0359)

Project Guide,

Dr. V. Phanindra Bogu
(Associate Professor)

Head of the Department

DR G. SREERAM REDDY
(Professor)

External Examiner

PRINCIPAL
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Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

DEPARTMENT OF MECHANICAL ENGINEERING



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the project report titled "INVESTIGATION OF MORPHOLOGY OF SILVER-IRON NANO POWDER" is being submitted as a record bonafide work carried out by **J.SHASHANK (16911A0381)**, **MOHD SANWAL AHMED (16911A0396)**, **P.SAI NATH (16915A03A1)**, **Y. SUDHEER YADAV (16911A03B6)** in partial fulfilment of the academic requirements for the award of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, Submitted to the Department of Mechanical Engineering, Vidya Jyothi Institute of Technology, Hyderabad during the period 2019-2020.

Under the guidance of,

Mr. N. PRAVEEN

Asst. Professor

Head of The Department

Dr. G.SREE RAM REDDY

INTERNALEXAMINER

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

EXTERNAL EXAMINER

**VIDYA JYOTHI INSTITUTE OF
TECHNOLOGY
(Autonomous)**

Himayath Nagar (VI), C.B. Post, R.R Dist. 500075



CERTIFICATE

This to certify that the project work entitled “Effect of coating on AISI 316L Austenitic stainless steel for Tribological property evaluation” is a bonafide work carried out by

MR. SANDEEP (16911A03H2)

MR. M. AKHIL (16911A03F0)

MS. G. MOUNIKA (16911A03D1)

MS. G. TEJASHWINI (16911A03D3)

in partial fulfilment of the requirements for award of degree of **BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**

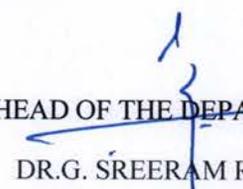
The content in the report has not been submitted to any other university or institute for the award of any degree or diploma.


PROJECT GUIDE

DR.V.V. SATYANARAYANA

Professor

Internal examiner


HEAD OF THE DEPARTMENT

DR.G. SREERAM REDDY

Professor

External examiner

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUH)

Aziz Nagar Gate, C.B Post, Chilkur Road – 500075

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the work reported in the present project entitled **“DESIGN AND MANUFACTURING OF CUSTOM SLIPPER SOLE USING LATTICE STRUCTURES”** is a record of work done by us in the department of MECHANICAL Engineering, Vidya Jyothi Institute of Technology (Autonomous), Jawaharlal Nehru technological university, Hyderabad. The reports based on the project work done entirely by us and not copied from any other source.

Mr. G. SESHANTH (16911A0322),

Mr. R. NAVEEN (16911A0348),

Mr. V. PAVAN SUDHAKAR (16911A0358),

Miss. Y. LAXMI PRASANNA (16911A0359)

Project Guide,

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(Associate Professor)

Head of the Department

DR G. SREERAM REDDY
(Professor)

External Examiner

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Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.,
Hyderabad-75.

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This to certify that the project report titled “IMPACT OF NOTCH TOPOLOGY ON THE FATIGUE LIFE OF UNS S32760 SUPER DUPLEX STAINLESS STEEL” is being submitted by

Mohammed Adil (16911A0337)

Mohammed Imaz Uddin (16911A0338)

P.Sourab (16911A0345)

Zubair Ahmed (16911A0360)

in the department of MECHANICAL ENGINEERING for the partial fulfillment of requirements for the award of degree of Bachelor of Technology in the academic year 2019-2020. This work has been carried out under our guidance and has not been submitted for any university/institution for the award of any Degree/Diploma.

INTERNAL GUIDES

Dr. V. PHANINDRA BOGU

Associate Professor, Dept. of Mechanical Engg.

Mr. J. JAGADESH KUMAR

HEAD OF THE DEPARTMENT

Dr. SREERAM REDDY

Professor, Dept. of Mechanical Engg.

External Examiner

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