

EXTRUSION BASED 3D PRINTING SYSTEM FOR THE DEPOSITION OF POLYMER COMPOSITES

A PROJECT REPORT

Submitted in partial fulfilment of the requirements

For the award of the degree of

**BACHELOR OF TECHNOLOGY
IN
MECHANICAL ENGINEERING**

Submitted by

N.N. VENKATA APPARAO

(PIN:20555A0311)

CH.SURESH

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S.SRINIVAS BABU

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SREERAMAN S T

(PIN:19551A0331)

Under the Supervision of

Mr. Mohammed Abdul Shafeeq

Assistant Professor

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NAAC 'A+' INSTITUTION**

**DEPARTMENT OF MECHANICAL ENGINEERING
GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)**

**CHAITANYA KNOWLEDGE CITY, NH-16, RAJAMAHENDRAVARAM, AP
Jawaharlal Nehru Technological University, Kakinada, AP, India**

APRIL 2023

GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Autonomous)

CHAITANYA KNOWLEDGE CITY, NH-16, RAJAMAHENDRAVARAM-533296, AP

BONAFIDE CERTIFICATE

Certified that this project report "EXTRUSION BASED 3D PRINTING SYSTEM FOR THE DEPOSITION OF POLYMER COMPOSITES" is a bona fide work of "N.NAGA VENKATA APPARAO (20555A0311), S.SRINIVAS BABU (20555A0313), CH. SURESH (19551A0306) SREERAMAN S THACHAPPULLY (19551A0331)", who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfilment of the requirements of the Degree of Bachelor of Technology in Mechanical Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology (A), Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.



31/3/2023

Signature of the Project Supervisor

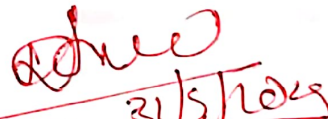
Mr. Mohammed Abdul Shafeeq M Tech

ASSISTANT PROFESSOR

Department of Mechanical Engineering

GIET(A), Rajamahendravaram-533296

Date: 31/03/2023



Signature of the Head of the Department

Dr. D. Santha Rao ME, Ph.D.

PROFESSOR & HOD

Department of Mechanical Engineering

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**Head of the Department
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GIET (A), RAJAHMUNDRY, A.P**

External Viva-Voce conducted on 03/04/2023



Internal Examiner



External Examiner 3/04/23

EVALUATION OF MECHANICAL PROPERTIES OF SUGARCANE BAGASSE ASH REINFORCED POLYESTER MATRIX COMPOSITES

A PROJECT REPORT

***Submitted in partial fulfilment of the requirements
for the award of the degree of***

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

BANDARU SANTHA KUMAR
(PIN:20555A0343)

GORLE MANOJ KUMAR
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GUDAPATI SAI
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Under the Supervision of
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Assistant Professor



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Jawaharlal Nehru Technological University, Kakinada, AP, India

APRIL 2023

GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Autonomous)

CHAITANYA KNOWLEDGE CITY, NH-16, RAJAMAHENDRAVARAM-533296, AP

BONAFIDE CERTIFICATE

Certified that this project report "EVALUATION OF MECHANICAL PROPERTIES OF SUGARCANE BAGASSE ASH REINFORCED POLYESTER MATRIX COMPOSITES" is the bonafide work of "BANDARU SANTHA KUMAR (PIN:20555A0343), GUDAPATI SAI (20555A0341), GORLE MANOJ KUMAR (20555A0355), ACHANTA PRABHAKARA RAO (20555A0339)", who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfilment of the requirements of the Degree of Bachelor of Technology in Mechanical Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology (A), Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.



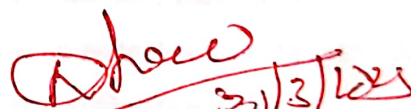
Signature of the Project Supervisor

Mr. D. Ajay Kumar

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Signature of the Head of the Department

Dr. D. Santha Rao ME, Ph.D.

PROFESSOR & HOD

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Head of the Department

Mechanical Engineering

GIET (A), RAJAHMUNDRY, A.P

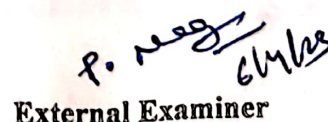
Date: 31/03/2023

External Viva-Voce conducted on

6/4/2023



Internal Examiner



External Examiner

FRICTION-STIR PROCESSING OF AA6061-T6: THE EFFECTS OF SILICON CARBIDE NANO-PARTICLES ADDITION

A PROJECT REPORT

***Submitted in partial fulfilment of the requirements
for the award of the degree of***

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

P. BADRINADH KUMAR
(20555A0333)

B.S.N DURGA ESWAR
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P. NANDA KISHORE
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***Under the Supervision of
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professor***



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Jawaharlal Nehru Technological University, Kakinada, AP, India
*APRIL 2023***

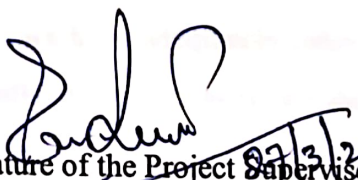
GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Autonomous)

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BONAFIDE CERTIFICATE

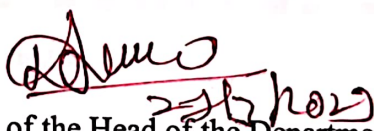
Certified that this project report “**FRICTION-STIR PROCESSING OF AA6061-T6: THE EFFECTS OF SILICON CARBIDE NANO-PARTICLES ADDITION**” is the bonafide work of “**P.BADRINADH KUMAR (20555A0333), B.S.N DURGA ESWAR (20555A062), P.NANDA KISHORE (20555A0342)**”, who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfilment of the requirements of the Degree of Bachelor of Technology in Mechanical Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology (A), Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.


Signature of the Project Supervisor

Dr.E Nirmala Devi ME, Ph.D.

Professor

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Signature of the Head of the Department

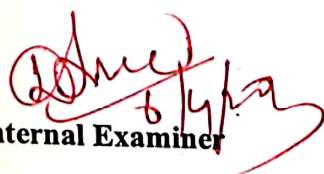
Dr. D. Santha Rao ME, Ph.D.

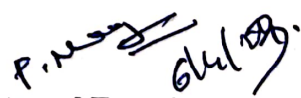
PROFESSOR & HOD

**Department of Mechanical Engineering
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Head of the Department
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GIET (A), RAJAHMUNDY. AP**

Date: 27/03/2023

External Viva-Voce conducted on 06/04/2023


Internal Examiner


External Examiner

INFLUENCE OF IN-SITU MECHANICAL VIBRATIONS ON THE RESIDUAL STRESSES IN ARC WELDED BUTT JOINTS

A PROJECT REPORT

***Submitted in partial fulfillment of the requirements
for the award of the degree of***

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

G. JOHN PRASAD
20555A0358

J. TARUN
20555A0367

K. SRINU
20555A0353

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20555A0364

Under the Supervision of

Mr. M. KEDARANATH

Associate professor



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GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY
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CHAITANYA KNOWLEDGE CITY, NH-16, RAJAMAHENDRAVARAM, AP

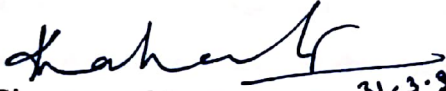
Jawaharlal Nehru Technological University, Kakinada, AP, India

APRIL 2023

GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Autonomous)
CHAITANYA KNOWLEDGE CITY, NH-16, RAJAMAHENDRAVARAM-533296, AP

BONAFIDE CERTIFICATE

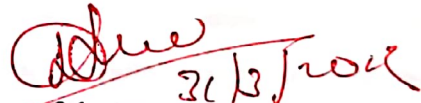
Certified that this project report "INFLUENCE OF IN-SITU MECHANICAL VIBRATIONS ON THE RESIDUAL STRESSES IN ARC WELDED BUTT JOINTS" is the bonafide work of "G.JOHN PRASAD(20555A0358), J.TARUN(20555A0367), K.SRINU (20555A0353), Md. SULTHAN ALI(20555A0364)", who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfillment of the requirements of the Degree of Bachelor of Technology in Mechanical Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology (A), Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.


Signature of the Project Supervisor ^{31.3.2023}

Mr. M. Kedaranath

Associate professor

**Department of Mechanical Engineering
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Signature of the Head of the Department ^{31/3/2023}

Dr. D. Santha Rao ME, Ph.D.

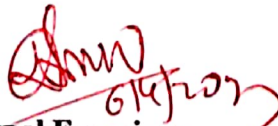
PROFESSOR & HOD

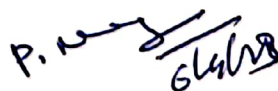
**Department of Mechanical Engineering
GIET(A), Rajamahendravaram-533296**

**Head of the Department
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GIET (A), RAJAHMUNDRY A P**

Date: 31/3/2023

External Viva-Voce conducted on 6/4/2023


Internal Examiner


External Examiner

AN EXPERIMENTAL AND CFD ANALYSIS OF PARALLEL AND COUNTER FLOW HEAT EXCHANGER BY USING DOUBLE TUBE HELICAL COIL

A PROJECT REPORT

Submitted in partial fulfilment of the requirements

for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

S.BHANU KISHORE

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N.UMA NAGESWARARAO

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S.SAI RAM

(PIN:20555A0347)

Under the Supervision of

Mr. N V S G SASIKIRAN

Assistant Professor



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APRIL 2023

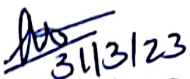
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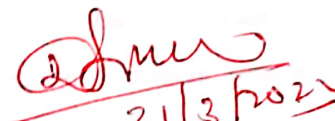
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Signature of the Project Supervisor

Mr. N V S G SASIKIRAN

ASSISTANT PROFESSOR

**Department of Mechanical Engineering
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Signature of the Head of the Department

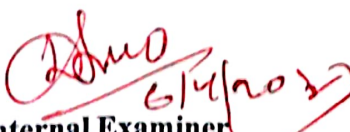
Dr. D. Santha Rao ME, Ph.D.

PROFESSOR & HOD

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Head of the Department
Mechanical Engineering
GIET (A), RAJAHMUNDRY. A P**

Date: 31/3/2023

External Viva-Voce conducted on 6/04/2023


Internal Examiner


External Examiner