

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-590018**



PROJECT REPORT ON

“AEROACOUSTIC ANALYSIS OF PROPELLER BLADE”

SUBMITTED BY

ABHIJEETH BISWAS	(1SJ20AS002)
ABISHEK S HOSAMANI	(1SJ20AS004)
PRAJWALKUMAR	(1SJ20AS012)
VIJAY S T	(1SJ20AS020)

UNDER THE GUIDANCE OF

Dr. RAVI KUMAR M

ASSOCIATE PROFESSOR,

DEPARTMENT OF AEROSPACE ENGINEERING

S J C INSTITUTE OF TECHNOLOGY, CHICKABALLAPUR



DEPARTMENT OF AEROSPACE ENGINEERING

S J C INSTITUTE OF TECHNOLOGY, CHICKABALLAPUR

2023-2024

|| JAI SRI GURUDEV ||

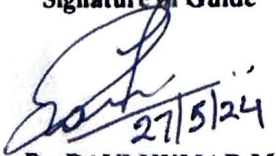
S J C INSTITUTE OF TECHNOLOGY
DEPARTMENT OF AEROSPACE ENGINEERING
Chickballapur – 562101



CERTIFICATE

This is certify that the Major project work entitle **"AEROACOUSTICS ANALYSIS OF PROPELLER BLADE"** carried out by **ABHIJEETH BISWAS, ABHISHEK S HOSAMANI, PRAJWALKUMAR, VIJAY S T** bearing USN **1SJ20AS002, 1SJ20AS004, 1SJ20AS012 and 1SJ20AS020** respectively, is a bonafide work carried out in partial fulfillment for the award of Bachelor of Engineering in Aerospace Engineering of the Visvesvaraya Technological University, Belagavi during academic year **2023–2024**. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited to the Department library. The project report has been approved as it satisfied academic requirements in respect of Mini project work prescribed for the Bachelor of Engineering.

Signature of Guide


27/5/24

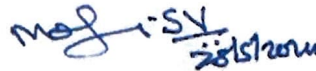
Dr. RAVI KUMAR M
Associate Professor
Aerospace Dept.
SJCIT

Signature of
Coordinator



Dr. N MURUGAN
Assistant Professor
Aerospace Dept.
SJCIT

Signature of HOD


28/5/2024

Dr. MADHUSUDHANA S V
Professor and Head of
Department
Aerospace Dept.

Signature of
Principal



Dr. G T RAJU
Principal
SJCIT

PROFESSOR & HEAD
Department of Aerospace Engineering
S.J.C. Institute of Technology
CHICKBALLAPUR-562101.

Signature of the Examiner.



10/5/24
29/5/24

EXTERNAL VIVA

Name of the Examiner

1. **Dr. N. Murugan**
2. **K. Ganesan**

VISVESHVARAYA TECHNOLOGICAL UNIVERSITY

BELGAVI-590018



PROJECT ON

“DESIGN AND FABRICATION OF SOUNDING ROCKET”

Submitted in partial fulfilment of

**BACHELOR OF ENGINEERING
IN
AEROSPACE ENGINEERING**

SUBMITTED BY

PRAMOD S CHIGARI	(1SJ20AS013)
SHREYAS AJIT SHIVANGEKAR	(1SJ20AS015)
THARUN B	(1SJ20AS017)
U DIVYASWETHA	(1SJ20AS018)

Under the guidance of

Dr. ELAVARASAN E
Assistant Professor



**DEPARTMENT OF AEROSPACE ENGINEERING
SJC INSTITUTE OF TECHNOLOGY**

P. B No.20, B.B. ROAD, CHICKBALLAPUR-562101

2023-2024

VISVESHVARAYA TECHNOLOGICAL UNIVERSITY

BELGAVI-590018



PROJECT ON

“DESIGN AND FABRICATION OF SOUNDING ROCKET”

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IN
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Assistant Professor



**DEPARTMENT OF AEROSPACE ENGINEERING
SJC INSTITUTE OF TECHNOLOGY**

P. B No.20, B.B. ROAD, CHICKBALLAPUR-562101

2023-2024

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI-590018



PROJECT REPORT

On

**“DESIGN AND ANALYSIS OF A SELF-HEALING COMPOSITE MATERIALS
FOR AEROSPACE COMPONENTS”**

Submitted in partial fulfilment of the requirement for the award of

BACHELOR OF ENGINEERING

IN

AEROSPACE ENGINEERING

SUBMITTED BY,

Aakash D	1SJ20AS001
Arya Raj	1SJ20AS006
BanuPrasad T V	1SJ20AS007
Bharath B	1SJ20AS008

UNDER THE GUIDANCE OF

Dr. Madhusudhana S V

Associate professor & HOD,

Department of Aerospace Engineering



DEPARTMENT OF AEROSPACE ENGINEERING

SJC INSTITUTE OF TECHNOLOGY

CHICKBALLAPUR-562101

2023-24

||Jai Sri Gurudev||

Sri Adichunchanagiri Shikshana Trust ®

SJC INSTITUTE OF TECHNOLOGY

CHICKBALLAPUR-562101

DEPARTMENT OF AEROSPACE ENGINEERING



CERTIFICATE

This is to certify that the Major project work entitled "Design and Analysis of a Self-healing Composite materials for Aerospace Components " carried out by Aakash D, Arya Raj, BanuPrasad T V, Bharath B bearing USN 1SJ20AS001, 1SJ20AS006, 1SJ20AS007, 1SJ20AS008 respectively are bonafide students of SJC Institute of Technology, Chickballapur in partial fulfilment for the award of Bachelor of Engineering in Aerospace Engineering of Visvesvaraya Technological University Belagavi, during the academic year 2023-2024. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited to the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering.

Signature of guide

Dr. Madhusudhana S V

Asso. Professor & HOD

Dept. of Aerospace Engg.

SJCIT

Signature of coordinator

Dr. Murugan N

Associate Professor

Dept. of Aerospace Engg.

SJCIT

Signature of HOD

Dr. Madhusudhana S V

PROFESSOR & HEAD

Department of Aerospace Engineering

S.J.C. Institute of Technology

CHICKBALLAPUR-562101.

Signature of Principal

Dr. G T Raju

PRINCIPAL

SJC Institute of Technology

SJCIT

CHICKBALLAPUR-562101

EXTERNAL VIVA

Name of the Examiner

- 1) Dr. N. Murugan
- 2) K. Narasimhan

Signature

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAVI-590018



PROJECT WORK PHASE- 2

REPORT ON

“AERODYNAMIC STUDIES ON LOW REYNOLDS NUMBER AEROFOILS”

Submitted in partial fulfilment of

BACHELOR OF ENGINEERING

IN

AEROSPACE ENGINEERING

SUBMITTED BY

HEMANTH V (1SJ20AS010)

KUSHAL K S (1SJ20AS011)

VARUN S S (1SJ20AS019)

Under the guidance of

Dr. N MURUGAN

Assistant Professor



DEPARTMENT OF AEROSPACE ENGINEERING

SJC INSTITUTE OF TECHNOLOGY

P. B No.20, B.B. ROAD, CHICKBALLAPUR-562101

2023-2024

|| JAISRIGURUDEV ||

SJCINSTITUTE OF TECHNOLOGY
DEPARTMENT OF AEROSPACE ENGINEERING
Chickballapur-562101



CERTIFICATE

This is certify that the Major project work title **"Aerodynamic studies on Low Reynolds number Aerofoils"** carried out by **HEMANTH V, KUSHAL K S AND VARUN S S**, USN **1SJ20AS010, 1SJ20AS011 AND 1SJ20AS019** is a Bonafide work carried out in partial fulfillment for the award of Bachelor of Engineering in Aerospace Engineering of the Visvesvaraya Technological University, Belagavi during academic year **2023-2024**. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited to the Department library. The project report has been approved as it satisfied academic requirements in respect of Major project work prescribed for the Bachelor of Engineering.


Signature of Guide

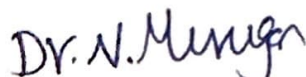
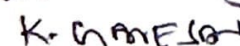

Head of Department

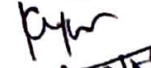

Principal

Name of the Examiner

PROFESSOR & HEAD
Department of Aerospace Engineering
S.J.C. Institute of Technology
CHICKBALLAPUR-562101.

Signature

1.  **Dr. N. Muniga**
2.  **K. Mahesh**



28/5/24