

**EVALUATION OF MODE I FRACTURE IN REINFORCED BIO- COMPOSITE WITH
THREE LAYERED JUTE AND TAMARIND SEED POWDER**

A PROJECT REPORT

Submitted by

R.RAGHUL

(112818114034)

K.RIYAZ KHAN

(112818114036)

P.SHARAN

(112818114040)

K.SNEGA

(112818114041)

In partial fulfillment for the award of the degree

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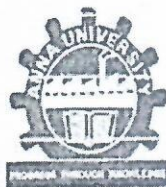
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T.J.S. ENGINEERING COLLEGE



ANNA UNIVERSITY: CHENNAI 600025

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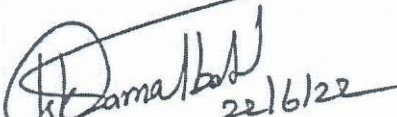
J. K. S. S.

PRINCIPAL
T.J.S. ENGINEERING COLLEGE
Peruvoyal, Kavaraipettai,
Gummidipoondi Taluk,
Thiruvallur Dist - 601 206.



BONAFIDECERTIFICATE

Certified that this project report "EVALUATION OF MODE 1 FRACTURE IN REINFORCED BIO- COMPOSITE WITH THREE LAYERED JUTE AND TAMARIND SEED POWDER" is the bonafide work of "R.RAGHUL (112818114034),K.RIYAZKHAN(112818114036),P.SHARAN(112818114040),K.SNEGA(112818114041)", who carried out the project work under my supervision.


SIGNATURE

Dr. K. KAMAL BABU ,Ph.D.(NIT-T)

HEAD OF THEDEPARTMENT

PROFESSOR

MECHANICAL ENGINEERING

T.J.S ENGINEERING COLLEGE


SIGNATURE

Mr.M.PRAKASH, M.E.,


SUPERVISOR

ASSISTANT PROFESSOR

MECHANICAL ENGINEERING

T.J.S ENGINEERING COLLEGE

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EXTERNALEXAMINER


PRINCIPAL
T.J.S. ENGINEERING COLLEGE
Peruvoyal, Kavaraipettai,
Gummidipoondi Taluk,
Thiruvallur Dist - 601 206.

ABSTRACT

In defense industry, mode 1 fracture is common scenario occurs often. The materials used for making vests, automobile covering parts, aerospace parts affected due to impact of projectile. These materials should possess good impact strength and energy absorption for its damage resistance and providing safety for the industry. Usually tamarind filler used for its well-known toughness. Tamarind seed powder tends to improve its property with respect to cost. Thus, it is important to calculate its impact strength and energy absorption factor of reinforced composites. In this thesis, Tamarind seed powder is for its good resistance to impact and the mode 1 fracture test is carried out with lead projectile for studying its behavior, tension and energy absorption. From the results, it is sufficient to conclude that usage of 20 % Tamarind seed powder composite behavior with impact of projectile.




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