

Name : Sivagangai T
 E-mail : tsivag@hindustanuniv.ac.in
 Designation : Assistant Professor
 Degree (highest degree with year of graduation) : M.tech-2015
 Experience : Academic 4 Yrs
 Specialization : Aircraft Structures and Composite material
 Research Area : Composite material



Certification:

- Completed 12 weeks online course on “**Aircraft Design**” by NPTEL
- Attended AICTE sponsored QIP program on “**Mechanical vibration**” at CIT, Coimbatore

Publications:

T. Sivagangai, V.Dineshababu & D.Manikandan “Study and performance analysis of vertical axis wind turbine using reduced inclined arm angle using aerofoil shape”, in IJMPERD vol 8, issue 6

T.Sivagangai, V. Dineshababu “Bearing and Delamination Failure Analysis of Pin Loaded Composite Laminates” in IJIEASR -ISSN: 2319-4413

2016 - Submitted **proposal** in India Railway Innovation idea project

Conference:

S.No	Name of conference	Venue	Date
1.	National conference on Aerospace Technology	Hindustan Institute of technology and Sciences	2018
2.	Organized International conference on Emerging Trends in Engineering and Technology	Nehru institute of technology and sciences	April 20-22,2016
3.	International conference ICONSTEM-MAP	Jeppiaar Engineering College	2015

Workshop / Seminar attended:

S.No	Name of workshop/Seminar	Venue	Date
1.	Teaching Learning Techniques	IITM	17 Dec 2018-19 Dec 2018
2.	Composite design, analysis and manufacturing	KCG College of Technology	02/02/2018
3.	Recent Advancement in Indian Aerospace	Nehru Institute of Engineering and Technology	2017

	Technologies		
4.	Design and automation	Nehru Institute of Engineering and Technology	11 Aug 2017
5.	Composite material	SNS College of technology	2017
6.	FEA Ansys Training	Conducted by CADD one channel at Dr.NGP College of engineering	2016
7.	Team leading	Conducted by ICTACT at Nehru institute of engineering and technology	2016

PROJECT DESCRIPTION

“Bird impact damage analysis of the engine compressor blade using FEM modeling”

Objective : To investigate the damage on the blade and influence of impact on adjacent blades. The bird material size and shape influence on the blade model using the EXPLICIT code in LS-DYNA. **Result** : The kinetic and total energy is studied on the impact location. The pressure variation of every time step is investigated.

“Effect of Natural Fillers on Mechanical Behaviour of Kevlar/Epoxy Composite using ballistic test”

Objective :

To investigate the mechanical behaviour of each composite

- i) Impact energy of the Kevlar/Epoxy composite without Natural filler
- ii) Impact energy of the Kevlar/Epoxy composite with Natural filler

To compare the impact behaviour of three different composites with natural fillers to the Parent composite.

Result :

- The Kevlar/Epoxy with natural filler and without natural filler is prepared. Each composite is tested separately using ballistic test. The test results are as follows,
- The velocity before and after impact of each Kevlar laminate. The residual impact energy of each laminate.
- The graph shows the comparison of impact energy of the Kevlar/Epoxy without natural filler and Kevlar/Epoxy with natural filler.
- The evaluated results showed improved performance during impact.

Of all the three natural fillers, flax filled Kevlar/Epoxy composite has the highest impact energy than the pineapple and kenaf filled epoxy laminate.