

RESUME

REETI MUKHERJEE

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PERSONAL DETAILS

- Father's Name : Abhijeet Mukherjee
- Date of Birth : 4th January 1990
- Linguistic Proficiency : Bengali, English, Hindi, Telugu.

EDUCATION

Degree/ Examination	Specialization	Year of Passing	School/Institute	Board/University	Percentage
Ph.D (pursuing)	Composite Materials	-	Osmania University	Osmania University	-
M.Tech	Engineering Design	2014	JNTUH	JNTUH	86
B.Tech	Mechanical Engineering	2012	CVSR College of Engineering, Hyderabad	JNTUH	73
Class XII	MPC	2008	Narayana Junior College, Hyderabad	Board of Intermediate Education-Andhra Pradesh	95
Class X	--	2006	CAL Public School, Hyderabad	Board of Secondary Education-Andhra Pradesh	85

PROFESSIONAL EXPERIENCE

- **Teaching experience (6Years)**
 - Have been teaching various Mechanical subjects at Jayamukhi Institute Of Technological sciences as Assistant Professor, from January 2022, till date.
 - Have taught at National Institute Of Technology, Warangal as Ad-Hoc faculty, since August, 2019, till December, 2019.
 - Have taught various Mechanical subjects at Jayamukhi Institute Of Technological sciences as Assistant Professor, from January 2018, till July 2019.
 - Have taught various Mechanical subjects at Vignana Bharathi Institute Of Technology as Assistant Professor from December' 2014 till December 2017.
 - Subjects handled are: Composite Materials, Kinematics Of Machinery, Engineering Drawing, Engineering Mechanics, Dynamics Of Machinery, Strength of Materials.

PROJECT WORK / TRAINING/PUBLICATION

- **Record of Publication**

- Paper on “Effect of Stacking Sequence on Bending Stiffness with respect to 60 degree angle Ply” in International Journal of Applied Engineering Research.(Published)
- Paper on “Variation in the Internal Damping and Fibre Angle Orientation on the C-Cross Sectional Beam Subjected to Tangential Forces” in International Journal of Applied Engineering Research.(Published).
- Paper on “Modelling and Analysis of Power Plant Boiler with the use of Functionally Graded Materials” .(Published)
- Paper on “Design and Optimization of single Crank Double Slotted Lever Mechanism” .(Published)
- Paper on “Flutter and divergence analysis of C-Cross sectioned Beam Made of Graphite/Epoxy” .(Published)

- **Record of Workshops/Conferences/FDP attended**

- Attended a FDP and advisory forum at Vaagdevi college of engineering, Warangal, 2017
- Attended a FDP and advisory forum at MLRIT, 2017, sponsored by SAEINDIA.
- Record of Project work handled
 - Handled a UG project on Design And fabrication of self-charging electric vehicle.
 - Handled a UG Project on Fabrication of Nano materials and its Application with FSW.
- Attended An International conference on advancements in aeromechanical materials for manufacturing held at MLRIT in the year 2016.
- Attended a workshop on Recent trends in Mechanical engineering, at Anurag Group of Institutions, in the year 2016.

- **PG Project**

“Analysis of laminated composite plates using CLPT” Which deals with the performance of simply supported, symmetrically laminated composite plates subjected to a sinusoidal distributed load is examined. Using Navier Solution the governing equation for the load and displacement is derived. The derivation also included Fourier Series for calculation. The values for the deflections caused are calculated using MATLAB.

FEA Analysis is performed on the plate of a 4-ply composite, Using MATLAB in coherence with Classical Lamination Plate Theory (CLPT), plate’s response to the load was analyzed and validated, after FEA analysis validation, an investigation on effects of fiber orientation to displacement value was conducted for different cases of symmetric 4-ply layup. Then same analysis is completed and validated for a 20-ply plate and in addition will reveal the effect of stacking sequence on bending stiffness with respect to 60 degrees angle ply as it moves to and fro from the mid plane.

- **UG Project**

Project on “EXPLOSIVE FORMING” Which deals with designing of experimental setup, fabrication of the experimental setup and analysis. My role was to design the overall concept – Taking all the ideas and putting together a concept of what we could deliver within the budget, actively participated in the experimentation process where the work piece is kept in between the two dies which are clamped together. As the combustion process progresses the charge is burnt and due to the pressure imposed deformation can be seen on the work piece.

AREAS OF INTEREST

- Design and analysis
- Research work in the field of composite materials
- Design optimization and techniques.
- Research and Development of smart materials.

SOFTWARE SKILL SET

- Languages : C.
- Operating System : Windows 7, XP, 10.
- Packages : CATIAV5, SOLID WORKS, ANSYS14.5, Creo Parametric, Auto CAD.

ACADEMIC ACHIEVEMENTS & CO-CURRICULAR ACTIVITIES

- Have guided team BAJA and reached Virtual round of BAJA conducted by SAE INDIA.
- Presented Paper on Effect of Stacking Sequence on Bending Stiffness with respect to 60 degrees angle ply, in an International Conference on Trends and Innovation in Mechanical Engineering, 2015.
- Presented Paper on Variation in the Internal Damping and Fiber angle orientation on the C-Cross Sectional Beam subjected to Tangential Forces in an International Conference on Trends and Innovation in Mechanical Engineering, 2015.
- Secured Second Prize in Paper Presentation (Mechanical) in National Level Technical Fest “SPARDHAA 10” held in Sreenidhi Institute of Technology and Sciences.
- Organized Mechanical Paper Presentation for “AAGAMA 2K11” held in CVSR College of Engineering and Technology.
- Volunteered for Mechanical Paper Presentation for “AAGAMA 2K10” held in CVSR College of Engineering and Technology.

DECLARATION

I, REETI MUKHERJEE, do hereby confirm that the information given above is true to the best of my knowledge.

Place:

Date:

(Reeti Mukherjee)
