Rodda Kiran Kumar Reddy · Ph.D. Scholar, National Institute of Technology, Tiruchirappalli · Tamil nadu · **411120009**@**nitt.edu** · +91-7702095965

RODDA KIRAN KUMAR REDDY RESUME

- Status: Pursuing Ph.D. in Mechanical Engineering in National Institute of Technology, Tiruchirappalli
- Skills: Experimental and analytical research
- Interests: Buckling and Vibration, Vibro-acoustics, Metallic foam structures, Functionally Graded Materials, Sandwich Structures, Micro perforated panels, Sonic Crystal

Awards and Medals

Awarded with Hon'ble President's Silver Medal for Academic achievement in M.Tech-Machine Design during X Convocation held on $23^{rd} December$, 2020.

Membership

Student Member of the "Institute of Acoustics" upto 20/04/2023.

Research Experience		
08/2020-now	Ongoing Projects	National Institute of Technology
		Tiruchirappalli
	Experimental investigation on vibro-acoustic beh subjected to mechanical excitation under Thermal E	
	Analytical studies on Vibro-acoustic Characterist otubes (CNT) Reinforced Functionally Graded Face s	
	An effective analytical approach to predict the Vibro-acoustic Characteristics of Doubly- Curved Sandwich Panels: Effect of shell Geometry	
	Experimental investigation on vibro-acoustic chara der hygro	cteristics of doubly-curved plates un-
	Numerical Simulation of Vibro-acoustic Characteric	istics of structural elements
	Studies on Vibro-acoustic Characteristics of Arbitra	arily Varying Thickness Structures
07/2018-	M.Tech Thesis	Koneru Lakshmaiah Education
05/2020		Foundation, Vaddeswaram
	Virbo-acoustic Characteristics of Visco-elastic Sar rial Damping	Idwich Panel: Effect of Inherent Mate-
	Analytical Evaluation of Vibration and Acoustic Res jected to Thermal Environment	ponse of Al-SiC Composite Plate Sub-
	Analytical studies on Vibro-acoustic characteristic plates	s of functionally graded flat sandwich
08/2014-	B.Tech Thesis	Rajiv Gandhi University of Knowledge
-05/2018		Technologies, Andhra Pradesh
	Design and Development of Biomass Cooking Sto	ve
	Design of Double Leaf Jig for Drilling Machine	
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2020 - now	Pursuing Ph.D. in Mechanical Engineering	National Institute of Technology
	Completed course work with a CGPA of 8.75/10	Tiruchirappalli
2018 - 2020	M-Tech in Machine Design	Koneru Lakshmaiah Education
	-	Foundation, Vaddeswaram
	Completed with a CGPA of 9.13/10	
2014 - 2018	B-Tech in Mechanical Engineering	Rajiv Gandhi University of Knowledge
		Technologies, Andhra Pradesh



Completed with a CGPA of 8.72/10

Software skills

CAD MODELING:	AUTOCAD, CATIA, SOLIDWORKS
FEM:	ANSYS APDL, ANSYS WORKBENCH
LANGUAGES:	MAPLE, METHEMATICA, MATLAB
Documentation:	LATEX
OPERATING SYSTEM:	Windows

Languages

- English(Fluent)
- Telugu(Fluent)
- Hindi(Intermediate)

Publications

R Kiran Kumar Reddy, M P Arunkumar, Vinod Bhagat and M B S Sreekara Reddy (2021)."Vibro-acoustic characteristics of viscoelastic sandwich panel: effect of inherent damping", published in **International Journal of Dynamics and Control**, vol 9, No 1, Pages 33-43, Spinger Publications

Kammuluri Baburaja, K Venkata Subbaiah , M P Arunkumar, Vinod S Bhagat and R Kiran Kumar Reddy (2020)."Vibration and Acoustic Characteristics of Aluminium Silicon Carbide Metal Matrix Composite Under Uniform and Non Uniform Thermal Environment", published in Silicon, Spinger Publications

Conferences

MBS Sreekara Reddy, M Sreekanth and **R Kiran Kumar Reddy**, Free Vibration Analysis of Sandwich Panels: Effect of Core Topology, is accepted for publication in **IOP Journal of Physics**

Journals under Review

Bimal Oommen John, Fuad Umar Hassan, Nivish George, Tony Chacko, Vinod Bhagat, P Jeyaraj and R Kiran Kumar Reddy, Thermal Buckling and Vibro-acoustic Behaviour of Heated Functionally Graded Graphene Polymer Layered Composites is under review in Part L: Journal of Materials: Design and Applications

MBS Sreekara Reddy and **R Kiran Kumar Reddy**, Sound Absorption Characteristics of DL-MPP with Non-Circular Perforations using Electro- Acoustical Model is under review in **Materials today proceedings**

Journals to be Communicated

> Vinod Bhagat, M P Arunkumar and **R Kiran Kumar Reddy**, Analytical Analysis on Vibro-Acoustic Response of Hybrid Honeycomb Core Sandwich Structure with Functionally Graded Carbon Nanotube Reinforced Composite Face Sheets

> Vinod Bhagat, M P Arunkumar and **R Kiran Kumar Reddy** Thermal Buckling and Vibrational Characteristics of Graphene Reinforced Polymer Composite Facesheet Sandwich Panel with Temperature Dependent Properties Under Thermal Environment

M P Arunkumar, Vinod Bhagat, **R Kiran Kumar Reddy**, Qian Geng, Jingfeng Ning and Yueming Li. Identification of Acoustic Characteristics of Hybrid Honeycomb Core Sandwich Structure on Different Conditions

Workshops

Attended in the TEQIP III sponsored online short-term course on **"Noise and Vibration Monitoring of Mechanical Systems"** in the Department of Mechanical Engineering from 29 October, 2020 to 31 October, 2020 at IIT Indore

> Attended two-day project-based training program on **"RC Aircraft Design"** Organized by Skyfi labs at RGUKT, AP-IIIT R.K. Valley in 2017

Declaration

I hereby declare that the above cited information is true to the best of my knowledge and belief, if given a chance, I can prove myself.