

# Curriculum Vitae

**P. RAMESH BABU**

Professor

Design Engineering, Composite Materials, Finite Element Method



Email : prbmechou@yahoo.com

Mobile : 9440546858

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## Office

Department of Mechanical Engineering,  
University College of Engineering, Osmania  
Univeristy, Hyderabad, Telangana

## Home

9-21/3/36, Ashok Nagar, Boduppall, Hyderabad-  
500092

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## Education

1. PhD (Thermoelastic analyses of interlaminar delamination growth behaviour emanating from free and pin-loaded holes in laminated FRP composites), January 2008, Indian Institute of Technology (IIT) Kharagpur
2. M.Tech (CAD/CAM), December, 2001, JNTU Hyderabad.
3. B.E (Mechanical Engineering), July, 1994, Andhra Univerersity.
4. DME (Mechanical Engineering), July, 1991, Jawaharlal Nehru Government Polytechnic (JNGP), Ramanthapur, Hyderabad

## Work Experience

1. July 1994 - January 1996, Assistant Manager, MEDCHL Chemicals, Hyderabad, India.
2. February 1996 – August 1997, Assistant Manager, NSL, Zahirabad, India..
3. August 1997 – August 2007, Assistant Professor, Department of Mechanical Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad-500007.
4. July 2004 – July 2007, Research Scholar, Department of Mechanical Engineering, Indian Institute of Technology Kharagpur, West Bengal, India.
5. July 2007- 2013: Associate Professor, Dept. of Mechanical Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad-500007.
6. August 2013- Till Date: Professor, Dept. of Mechanical Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad-500007.

## Research

### Ph.D. Scholars under my Guidance

1. Jeevan Kumar, N Delamination Damage Propagation Studies Of Laminated Frp Composite Bonded

Joints (2018).

2. Garimella Sridhar, Distortion Analysis and Minimization Stratagem for Machining Monolithic Thin Walled Components- (2019).
3. Shankarachar, S Vibration and Instability studies of Elastically restrained pipe and carbon nanotube conveying fluid- (2019).

### Seminars Organized

1. Organized Indian Society of Theoretical and Applied Mechanics-An International Meet, during 27-30 December 2008 at University College of Engineering, Osmania University, Hyderabad.
2. "NanoSPD6 International Conference", during 30<sup>th</sup> June – 4<sup>th</sup> July 2014 at Metz, France.
3. "3 Days Advanced Training Programme on Shodhganga" during 29th - 31st January 2014 held at INFLIBNET Centre, Gandhinagar, Gujarat.
4. Organized 3-day workshop on Application of Numerical Methods in Science and Engineering during 21-23 October 2016.
5. Organized an International Conference on *Advances in Materials and Manufacturing* during 8-10 December 2016 at Leonia Convention Center, Hyderabad.
6. Organised 62nd Congress of Indian Society of Theoretical and Applied Mechanics, during 15th – 18th, December 2017 at University College of Engineering, Osmania University.

### Trainings and Other Programs Attended

1. 2-week AICTE Sponsored Faculty Development Program on "**Finite Element Analysis And Practices Through Ansys**" during **17th to 29th March 2014** at CBIT, Hyderabad.
2. Keynote Lecture at a 2-day National Workshop on "Advances in Composite Materials" at JNTU Kakinada.
3. AICTE sponsored Faculty Development Program on "Finite Element Applications in Civil Engineering" at VNRVJIET during 3rd June - 15th June 2013.
4. Two- day National level workshop on Advanced Composite Materials to be conducted at the institute premises on February 6th and 7th 2017 at Department, Mechanical Engineering CMR Institute of Technology.
5. Delivered lecture on Design of Composites Structures in a Five-days continuing education program on the Missile Structural Design and Testing at DRDL during 20-24 September 2016.

### List of Publications

#### Peer-Reviewed Papers

1. Garimella Sridhar, **Ramesh Babu, P.**, "Effect of cutting parameters on machining induced distortion in thin wall thin floor parts" *Journal of Mechanical Engineering*, 2019, 17-27.
2. Jeevan Kumar, N. and **Ramesh Babu, P** "Analysis of Mode I and Mode II Crack Growth Arrest Mechanism with Z-Fibre Pins in Composite Laminated Joint" *Applied Composite Materials* (2018) 25:365–379
3. Jeevan Kumar, N. and **Ramesh Babu, P.** " Impact analysis of embedded delamination growth in stiffener of hybrid laminated composite stiffened panel" *International Journal of Computational Materials Science and Engineering*, Vol. 6, No. 1 (2017) 1750001
4. Jeevan Kumar Naini and **Ramesh Babu, P.,** " Impact Analysis of Embedded Delamination Location in Hybrid Curved Laminated Composite Stiffened Panel" *Applied Composite Materials*, Vol .23 No 1

(2016)

5. Jeevan Kumar, **Ramesh Babu, P.** "Analysis of Embedded Delamination Growth in Hybrid Laminated Curved Composite Stiffened Panels" *International Journal of Composite Materials* 2016, 6(4): 100-120
6. Shankarachar Sutar, Radhakrishna Madabhushi and **Ramesh Babu, P.**, Finite Element Analysis of Piping Vibration with Guided Supports, *Int. J. Mech. Eng. Autom.* Vol. 3 , (2016), 96-106
7. Shankarachar,S., Radhakrishna,M. and **Ramesh Babu, P.**, Fluid Induced Piping Vibration with Elastically Restrained Different End Supports, *International Journal of Engineering Research & Technology*, Vol. 4 (2015), 423-429.
8. Garimella Sridhar, **Ramesh Babu, P.**, " Volume of Material Removal on Distortion in Machining Thin Wall Thin Floor Components" *International Journal of Mechanical Engineering and Applications*, 2015, 3(5), 86-93.
1. Garimella Sridhar, **Ramesh Babu, P.**, " Effect of a milling cutter diameter on distortion due rot the machining of thin wall thin floor components" *Advances in Production Engineering & Management Jounal*, Vol. 10 (3), (2015), 140-152.
2. **Ramesh Babu, P.** "Evaluation of Flexural and Tensile Properties of Short Kenaf Fiber Reinforced Green Composites" *International Journal of Advanced Mechanical Engineering*. ISSN 2250-3234 Vol. 4,(2014) , 371-3880.
3. Garimella Sridhar, **Ramesh Babu, P.**" Cutting Parameter Optimisation for minimizing machining distortion of thin wall thin floor avionic components using Taguchi Techniques", *International Journal of Mechanical Engineering and Technology*, Vol. 4 (4), (2013), 71-78.
4. Jeevan Kumar, N., **Ramesh Babu, P.** & Ratnakar Pandu "Investigation on Buckling Behaviour of laminated curved composite stiffened panels" *Applied Composite Materials*, vol 20. (2013)
5. Garimella Sridhar, **Ramesh Babu, P.** "Understanding the challenges in machining thin walled thin floored Avionics components", *Int. Journal of Applied Sciences and Engineering Research*, Vol. 2, (2013), 93-100.
6. **Ramesh Babu, P.** and Pradhan, B. "Thermoelastic effects on mixed-mode delamination growth emanating from circular holes in laminated FRP composites", *Struct.*,**82**(1) (2008), 50-60.
7. Pradhan, B. **Ramesh Babu, P.** Influence of ply sequence and thermoelastic stress field on asymmetric delamination growth behaviour emanating from elliptical holes in laminated FRP composites. *ASME J. Eng. Mater. Tech.*, **130**(1) (2008).
8. Pradhan, B. and **Ramesh Babu, P** " Assessment of beneficial effects of interference-fit in pin-loaded FRP composites". *Reinf. Plast. Compos.*, **26**(8), (2007), 771-788.
9. **Ramesh Babu, P.** and Pradhan, B., "Effect of damage levels and curing stresses on delamination growth behaviour emanating from circular holes in laminated FRP composites". *Composites Part-A- Applied Science and Manufacturing.*,**28**(12) (2007), 2412-2421.

## Conferences

- Ramesh Babu, C. Sharada Prabhakar, (2013) Fracture studies of Angle ply Polymeric Composites 9th International Conference on Fracture & Strength of Solids, June 9-13, , Jeju, Korea.
- Ramesh Babu, P. and Pradhan, B. (2004). Delamination onset prediction and failure analysis of mechanically fastened joints in Composite laminates. *49<sup>th</sup> Congress of ISTAM*, NIT Rourkela., December 27-30, p. 49
- Ramesh Babu, P., Panigrahi, S.K. and Pradhan, B. (2005). Debond damage analyses of laminated FRP

composite using SERR approach. *50<sup>th</sup> Congress of ISTAM*, IIT Kharagpur, December 14-17., pp.208-217.

- Ramesh Babu, P., and Pradhan, B. (2005). A 3D finite element stress analysis to study the effect of interference fit in pin/bolted joints in FRP composite laminates. *50<sup>th</sup> Congress of ISTAM*, IIT Kharagpur, December 14-17, p. 88
- Ramesh Babu, P. and Pradhan, B. (2006). Effect of anisotropy on mixed-mode delamination growth emanating from circular holes in laminated FRP composites. *51<sup>st</sup> Congress of ISTAM*, Andhra University, Visakhapatnam, December 18-21, pp.223-231.
- Ramesh Babu, P. and Pradhan, B. (2006). Analysis of thermoelastic effects on delamination growth emanating from notches in laminated FRP composites. *51<sup>st</sup> Congress of ISTAM*, Andhra University, Visakhapatnam, December 18-21, p. 51.
- Ramesh Babu, P. and Pradhan, B. (2007). Characterization of curing stress effects on fracture behaviour of FRP composite laminate with elliptical cutouts. *ICCM-16*, July 8-13, Kyoto, Japan, pp. 1332-1333.
- Ramesh Babu, P. and Pradhan, B. (2007). Thermoelastic effects on delamination growth behaviour emanating from elliptical holes in transversely loaded graphite/epoxy composite laminates. *52<sup>nd</sup> Congress of ISTAM*, BNMIT, Bangalore, December 14-17.
- Jeevan Kumar, P.Ramesh Babu “Impact Analysis of Embedded Multiple Delaminations Growth in Hybrid Laminated Curved Composite Stiffened Panel”, International conference on Advances in Materials and Manufacturing(ICAMM-2016) Jointly organized by University College of Engg, Department of Mechanical Engineering, Osmania University& Defense ResearchDevelopmentLaboratory(DRDL),Hyderabad,Telangana,India,December8-10, 2016,Proceedings,Vol1,PP:451-457
- Jeevan Kumar, Dr.P.Ramesh Babu, Dr.N.V.Srinivasulu, Bharat Kumar “Investigation on buckling behaviour of composite stiffened panel “National Conference on Advances in Mechanical Engineering& Renewable Energy(AMERE-2013),Organized by Department of Mechanical Engineering, Chaitnya Bharathi Institute of Technology,Gandipet,Hyderabad,25-26 March,2013,Proceedings:PP:13-20

## Visits and Guest lecturers delivered

1. 2-week AICTE Sponsored Faculty Development Program on “**Finite Element Analysis And Practices Through Ansys**” during**17th to 29th March 2014** at CBIT, Hyderabad.
2. Keynote Lecture at a 2-day National Workshop on “Advances in Composite Materials” at JNTU Kakinada.
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Place : Hyderabad

Date : 24-06-2019

( P. RAMESH BABU )