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Area of Specialization : Composite Materials, Finite Element analysis , Vibrations of Composite Materials

### **Publications in Journals**

1. Balasubramani V, Nikhila R, Alice Nila M, Numerical prediction of interlaminar stresses in laminated composites, IOP Conf. Series: Materials Science and Engineering 402 (2018) 012121
2. Balasubramani, V., Sharath Subramanian, D., Vignesh, N., Design and fabrication of a tool changing mechanism for cylinder block in a vertical milling machine , IOP Conference Series: Materials Science and Engineering, 2018, 402(1), 012116
3. V.Balasubramani, A. Arunkumar, T. Muthumani, Flow analysis of Butterfly valve for effective Exhaust Braking system, International Journal of Applied Engineering Research, 2015, ISSN 0973-4562, vol. 10, No.77, pp. 340-343
4. A.Arunkumar, T. Muthumani, V. Balasubramani, Design and fabrication of anti roll back system in vehicles using ratchet and pawl mechanism, International Journal of Emerging Technology in Computer Science & Electronics,(IJETCSE), 2015ISSN:0976-1353,vol. 12, no.3, pp. 6-9
5. Joseph Leo.A. , Arut Pranesh.K. , Balasubramani,V, Structural analysis of crane hook, International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE),2015,ISSN: 0976-1353, vol. 12, no.3, pp. 42-46
6. Roys Jeyangel, M.Babu, V.Balasubramani, Design and kinematic analysis of gear powered scissor liftInternational Journal of Emerging Technology in Computer Science & Electronics (IJETCSE) 2015, ISSN:0976-1353,vol.12, no.3,pp. 42-46

### **Publications in Conferences**

1. V. Balasubramani ,R. Venkatesh, S.S. Namenesh , Numerical Analysis of Aluminium Metal Matrix Hybrid Composites Brake Disc Rotor, International Virtual Conference on “Future Trends in Automotive Technologies” Vellore Institute of Technology, 2020.

2. Balasubramani V, Karthikeyan B, Venkatesh M and Sudharshan Vasudevan, Numerical deflection analysis of rectangular laminated composite plates, International conference on Innovation in Thermal, Manufacturing, structural and Environmental Engineering, 2020, Kongunadu College of Engineering and Technology, Thottiam.
3. Balasubramani V, Buvanesh Kumar, Nicklesh Babu, Manoj Mani, Low velocity Impact analysis of Hybrid Laminated Composites, International conference on Innovation in Thermal, Manufacturing, structural and Environmental Engineering, 2020, Kongunadu College of Engineering and Technology, Thottiam.
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5. AS. Bivin Savio, P. Velmurugan, V. Balasubramani, Thermal analysis of radial flow turbocharger turbine, International Conference on Engineering Innovations and Solutions (ICEIS –2016), CMS College of Engineering, Namakkal, India, pp 192-196
6. R. Keshor Kumar, T. Dharun Velmani, V. Balasubramani, Numerical Prediction of Fatigue Life of Crankshaft, International Conference on Innovations in Engineering and Technology (ICIET) - 2016, K.L.N. College of Engineering, July 2016, pp 73-8