Prof.J.SRINIVAS
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Areas of Interests: Dynamics, Vibrations & Control, Optimization-based Design.

Academic Qualifications:

Ph.D., (Mechanical Engineering) 2001
M.E., (Machine Design) 1995
B.E., (Mechanical Engineering) 1992

Experience

20 Years of experience in teaching and research.

Academic

Lecturer, Andhra University, Visakhapatnam from June 2000 to Aug 2001.
Assistant Professor, GITAM, Visakhapatnam from Sep 2001 to Mar 2003.
Assistant Professor, SCSVMV University, Kancheepuram (TN) from Apr 2003-Apr 2005 Professor, CEC, Visakhapatnam from May 2005 to Aug 2006.
Visiting A.P., Kyungpook National University, Daegu,S.Korea from Sep 2006-Aug2008.
Post doc in MEMS Gyroscope DESIGN AND ANALYSIS, I.I.Sc Bangalore till Aug 09.

Administrative Experience:

Head of the Department, CEC, Viskahapatnam during 2005-2006.
Faculty in charge for Mechatronics lab in SCSVMV University during 2004-2005.
Member of DRC and Stress analysis and computational lab incharge Mech.Engg. NIT RKL.

Consultancy Research Projects:

" York design of 10 wheeled trolley vehicle", Khanna Engineers, Rourkela 2018.
"Spindle Dynamics Analysis of Dentist Drills", Joint Project of Kyungpook National University, Daegu,S.Korea and Korean Medical Association. 2007-2008
"Fatigue, fracture and impact analysis of composite plates", Joint project of Andhra University and NSTL-Visakhapatnam 2000-2001.
"Dynamic analysis of three pinion rotor system using component mode synthesis", Joint project of Andhra University and BHEL- Hyderabad, 1999-2000.

Some of Research Guidance:

Guided/co-guided the following important works

(a) Kinematic design, dynamic modeling and control studies in revolute planar parallel manipulator, 2016
(b) Studies on design of spindle-tool system and their effects on overall milling process stability, 2017.
(c) Studies on aerodynamic performance and flutter instability in aerofoils, 2018.
(d) Material modeling and dynamic analysis of CNT-polymer nanocomposite structures, 2019.
(e) Dynamics and control simulations of turbocharger rotor-bearing systems, 2020.
(f) Dynamic analysis, identification and control of aero-engine rotor bearing systems, 2016.
(g) Design and control of robotic arm in replacement activities, 2016.
(a) Analysis of stability in turning with secondary effects, 2009.
(b) Vibration-based damage prediction methodology for linear Mechanical systems, 2008.
(c) Design and optimization of Modern gas turbine stage with non-conventional methods, 2004
(d) Analysis of Multi-pinion rotor systems using Component Mode synthesis approach, 2003.

Reviews:

Reviewed more than 40 papers for international journals and acting as editorial member in some journals.

Patents:

Alternative reciprocating water-pumping device, 2005.

Publications: Authored more than 60 international publications and 10 text books for B.Tech and M.Tech courses.