Faculty Profile

Name:	**Dr. Appala Tharakeshwar**
Designation:	Professor
Teaching Areas:	Kinematics and Dynamics, Mechanisms and Machines, Robotics, Mechanisms Design
Research Interests:	Mechanism for Rural and Agriculture Development, Novel Mechanisms and Robotics, Assistive mechanisms for children with disability and elderly people
Education:	Ph.D, Indian Institute of Science, Bangalore, 2012
	M.Tech , J N T University , Hyderabad , 2003
	B.Tech , S V University, Tirupati,1999

Professional Experience (Total: 18Years)

1. Dec 2018 to till date : Professor, Dept of Mech Engg, FST , IFHE , Hyderabad
2. Jul 2017 – Dec 2018: Professor &HoD, Mech Engineering, K L University, Hyderabad
3. Mar 2016 – Jul 2017: Professor, Dept of Mech Engg, VCE, Hyderabad
4. Jun 2012 – Mar 2016: Asso Professor &HoD, DME , SSJ Engg College, Hyderabad
5. Sep 1999 – Jun 2012 : Lecturer to Asso Prof in ME Dept at SSN, IARE ,TJIT..etc

Research / Selected Publications:

1. Tharakeshwar Appala and Ashitava Ghosal, “Simulation and Experimentation of Three wheeled Mobile Robot on Uneven Terrain with D4Bar suspension for slip free motion”, Mechanisms and Machines Theory,Vol 93(2015), pp 83-97.
2. Tharakeshwar Appala and Ashitava Ghosal, “Modeling and Simulation of 3-WMR on Uneven Terrain with 2-DOF Suspension Mechanisms”, Mechanics based design of structures and machines: An International Journal, Vol 43(2015) , Issue 4, pp 466-486.
3. Tharakeshwar Appala and Ashitava Ghosal, “A Three-wheeled Mobile Robot for Traversing Uneven Terrain without Slip: Simulation and Experiments”, Mechanics based design of structures and machines: An International Journal, Vol 41(2013) , Issue 1, pp 60-78.
4. Tharakeshwar Appala and Ashitava Ghosal, “Tip over stability analysis of three wheeled mobile robot capable of traversing uneven terrains without slip”, Journal of Applied Mechanics and Materials, Vol 110 (2012), pp 2940-2947.
5. Rishab Basutkar, Vishlesh Varaganti and Tharakeshwar Appala, “Gyroscopic stabilization of a two wheeled vehicle: Modeling and Simulation”, International Conference on Design and Manufacturing, 2016, IIITDM, Chennai, India.
6. Tharakeshwar Appala and Ashitava Ghosal, “3-3 Suspension Mechanisam for Wheeled Mobile Robots on Uneven Terrains”, International Conference on Vibration Engineering and Technology of Machinery - IV, IITD, 2010, Macmillan Publishers.