

## FACULTY PROFILE



**Name:** GRANDHI SURESH KUMAR

**Designation:** Assistant Professor

**Teaching Areas:** Thermal Engineering (Applied Thermodynamics, Heat Transfer), Manufacturing (Production Technology, Machine Tools & Metrology, Metal Forming), Robotics, Engineering Graphics

**Research Interests:** Energy Systems, Gasification, Computational Fluid Dynamics, Artificial Intelligence, Neural Networks.

**Current Project:** Characterization and Gasification studies of high ash coals and biomass fuels.

**Education:** (PhD), JNTU Hyderabad (Registered in December 2012)

ME, Production Engineering, Jadavpur University, 1991

B.Tech, Mechanical, Nagarjuna University, 1989

### Professional Experience: (26 Years)

1. 2014 to Till Date: Assistant Professor, FST, IFHE, Hyderabad
2. 2013- 2014: Assistant Professor, SPS University, Udaipur
3. 2011-2013: Assistant Professor, FST, IFHE, Hyderabad
4. 2002-2011: Faculty Member, ICFAITech, Hyderabad
5. 2000-2002: Software Engineer, P.B. Systems, Vijayawada
6. 1991-2000: Industry Experience (Production, Planning)

### Research/Selected Publications:

1. G Suresh Kumar, AVSSKS Gupta, M Viswandham, "Effect of moisture content, equivalence ratio and temperature on syngas composition of high ash coals using thermodynamic equilibrium modeling", Proceedings of ISME 2017, NIT Warangal, pp. 147, Feb 2017.
2. G Suresh Kumar, M Viswanadham, "Simulation of Carbon Dioxide adsorption on Activated Carbon", Journal of Applied Geochemistry, vol 17(4), pp.432-436, November 2015.
3. G Suresh Kumar, et al., "Materials and Techniques for High Temperature CO<sub>2</sub> Capture", PHARMANEST, vol 5(2), pp. 1936-1942, May 2014.
4. G. Suresh Kumar, M.Viswanadham, AVSSKS Gupta, G Santosh Kumar, " A review of Pre-Combustion CO<sub>2</sub> capture in IGCC", vol.2, No 5, IJRET, pp. 847-853, May 2013.
5. Santhosh Kumar.G, K.Hema Chandra Reddy, Ch.Rajesh and G.Suresh Kumar, "A Review on Study of the Effect of in Cylinder air Swirl on Diesel Engine Performance and Emission", (IJMECH) Vol.1, No.2, pp11-18, November 2012.