

# Curriculum Vitae – Dr. Suresh Babu G

## Dr. Suresh Babu G

Assistant Professor,  
Department of Mechanical Engineering,  
Annamacharya Institute of Technology & Sciences,  
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+91 9949224453  
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## Objective

To seek a position offering growth and challenges, enriching my technical knowledge and research capabilities while contributing effectively to institutional academic objectives.

## Educational Qualifications:

Qualification	Specialization	Institution	Year
Ph.D.	Mechanical Engineering	VTU, Belagavi	2023
M.Tech.	Advanced Manufacturing Systems	JNTU Hyderabad	2013
B.Tech.	Mechanical Engineering	JNTU Anantapur	2006
Intermediate	M.P.C	BIE, Hyderabad	2001
SSC	-	BSE, AP	1999

## Ph.D. Research:

- **Thesis Title:** *Process Planning and Configuration Selection for Reconfigurable Manufacturing System: A Simulation Approach*
- **Guide:** Dr. N. Chikkanna, Professor, VTU Center for PG Studies, Muddenahalli.
- **Awarded By:** Visvesvaraya Technological University (VTU), Belagavi – 2023

## Professional Experience:

### 1. CAD Engineer & Team Lead

Mold-Tek Technologies Ltd., Hyderabad (Oct 2006 – Jun 2009)

- Structural component modeling, 2D/3D detailing for US clients
- Load-based truss and joist design
- Project planning, client handling, team supervision

### 2. Assistant Professor

Madina Engineering College, Kadapa (Jul 2009 – Dec 2011)

### 3. Assistant Professor

Annamacharya Institute of Technology & Sciences, Rajampet (Nov 2012 – Present)

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#### Subjects Taught

- Engineering Drawing
  - Machine Drawing
  - Engineering Mechanics
  - Production Technology
  - Instrumentation & Control Systems
  - Dynamics of Machinery
  - Production and Operations Management
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#### Research Areas

- Reconfigurable Manufacturing Systems
  - Optimization Techniques
  - Simulation-Based Process Planning
  - Thermal Energy Storage Materials
  - Phase Change Materials
  - Manufacturing Process Optimization
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#### Publications Summary

- SCI-indexed: 1
  - Scopus-indexed: 5
  - UGC-listed: 5
  - Patents: 2 (Indian & Australian)
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#### Selected Recent Publications

1. Synthesis and characteristic analysis of an inorganic composite phase change materials for medium-temperature thermal storage, *Powder Technology* (SCI, 2024)
  2. Performance Optimization of Reconfigurable Manufacturing System Using Dual Step Metaheuristic Approach, *IJRTE* (Scopus)
  3. Optimization of Diesel Engine Performance Using Taguchi and Grey Relational Analysis, *Mukt Shabd Journal* (UGC)
  4. Waste Heat Recovery using PCM, *International Journal of Vehicle Structures and Systems* (Scopus)
  5. Australian Patent on Performance Optimization (2021)
  6. Indian Patent on Performance Optimization (Published, 2021)
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## **Technical Skills**

- AutoCAD (2000–2008), CATIA V5 R19
  - Microsoft Office (Word, Excel, PowerPoint)
  - Windows OS
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## **Professional Memberships**

- MIE in IEI – Member of The Institution of Engineers (India)
  - Member in IAENG – International Association of Engineers
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## **Personal Details**

**Date of Birth:** 08 June 1984

**Languages Known:** English, Hindi, Telugu

**Marital Status:** Married

### **Permanent Address:**

Door No: 7/140-3, Upstairs, NGO Colony,  
Venkateswara Swamy Temple Street, Kadapa – 516002, Andhra Pradesh.

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Dr. G. Suresh Babu

Assistant Professor

Department of Mechanical Engineering,

Annamacharya Institute of Technology & Sciences, Rajampet

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#### Educational Qualifications

Ph.D. in Mechanical Engineering, VTU Belagavi

M.Tech in Advanced Manufacturing Systems, JNTU Hyderabad

B.Tech in Mechanical Engineering, JNTU Anantapur

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#### Areas of Expertise

Reconfigurable Manufacturing Systems

Optimization Techniques

Simulation-Based Process Planning

Thermal Energy Storage Materials

Phase Change Materials

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#### Research & Publications

1 SCI-indexed publication

5 Scopus-indexed papers

5 UGC-listed publications

2 Patents (Indian & Australian)

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#### Professional Experience

Total Experience: 17+ years (Academia + Industry)

Former CAD Engineer at Mold-Tek Technologies Ltd., Hyderabad

Currently serving as Assistant Professor at AITS, Rajampet since 2012

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#### Subjects Taught

Engineering Drawing, Production Technology, Machine Drawing, Instrumentation, Dynamics of Machinery, Operations Management

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#### Contact Information

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