

Career Objective

To create a successful presence in an institute where, I can explore my knowledge towards the growth of young engineers.

Professional Background

- Working as Assistant Professor in Mechanical Engineering department in Techno India NJR Institute of Technology, Udaipur since June, 2019 to till date.
- Worked as Guest Faculty in Mechanical Engineering department in CTAE, Udaipur since July, 2018 to June, 2019.

Year	Degree/Exam	Institute	CGPA/ Marks(%)	
2018	M.Tech.	Indian Institute of Technology,	8.52	
	(Material Science)	Bombay		
2014	B.Tech.	Govt. Engineering College, Bikaner	65.55	
	(Mechanical Engg.)			
2010	Higher Secondary, State Board Rajasthan	R. B. Sr. Sec. School, Makrana	76.15	
2008	High School, State Board Rajasthan	R. B. Sr. Sec. School, Makrana	81.67	

Academic Profile

Others:

• GATE exam qualified in 2015, 2016, 2019

Major Interests: Material Science, Production Engineering, Strength of Materials, Theory of Machine, Thermodynamics.

Technical Skills: ABAQUS, MATLAB, DEFORM-3D, AUTO-CAD, HYPERFORM, MATLAB, Origin-Pro 9.1, X'Pert HighScore, XRD, SEM

Projects

M.Tech. Thesis

Title: Development of processing map for microstructural studies during ring rolling.

Supervisor: Prof. K. Narasimhan

Description: The objective of this work was to simulate, validate and study the microstructural changes occurring during hot deformation of low carbon steel during ring rolling.

Developed **constitutive equation** for **SA-181 Gr60 steel** using **Gleeble 3800 thermomechanical simulator** to study the hot deformation behaviour during ring rolling process.

Developed **processing map** based on **Gleeble** data to reveal the safe and unsafe regions for hot working of **SA-181 Gr60 steel.**

Identified the temperature-strain rate window for hot deformation of **SA-181 Gr-60 steel** resulting in minimum instability and maximum efficiency of power dissipation.

Built a **3D** model of **compression test** in FEA based platform **ABAQUS** and simulated the compression test model using **Johnson-Cook model** and compared with the experimental data.

Minor Projects

1. Title: Effect of process parameters on microstructure distribution during ring rolling process.

Supervisor: Prof. K. Narasimhan

Description: The objective of this work was to thoroughly study the effect of **strain, temperature, feed rate,** and **rolling speed** on the microstructure of the ring during ring rolling process. In this project, I presented some case studies on effect of strain, guide rolls, temperature, mandrel feed rate that governs microstructural changes responsible for changes in mechanical properties of the ring.

2. Title: Study of Computational Methods for Metal Forming Analysis

Supervisor: Prof. K. Narasimhan

Description: Developed a code in **MATLAB** to simulate tensile test to find mechanical properties of **Aluminium** sheet metal and compared the results with experimental data obtained from UTS test. Performed **simulation** of forming operation of circular cup using **FEM** based **HyperForm** software and compared the results of Forming Limit Diagram (FLD) for various parameters such as blank holding force, punching force, strain distribution and percentage thinning. Carried out Limiting Dome Height (LDH) test to study the forming limit of steel sheet metal.

Industrial Training

<u>National Engineering Industries Ltd.</u> Jaipur (Rajasthan), under Taper Roller Department from June, 2013 to July, 2013.

Co-Curricular Activities

- Participated in Python Boot-camp under Non-Technical Summer School 2017 at IIT Bombay
- Secured **3rd position** in **Robotryst-2014** organized by **IIT Delhi** at zonal level in **GECB Bikaner**
- Part of event organizing team as **Event manager** in **SAKSHAMA'GT-2012** in GECB Bikaner
- Event manager in Department level event Sambhava-2011 at GECB Bikaner
- Created NPTEL web page links for GATE question papers MT-Metallurgical Engineering 2015

Personal Information

DOB	:	10 th August 1991
Father's Name	:	Mr. Chandra Prakash Jangid
Permanent Address	:	S/O Chandra Prakash Jangid, Village- Mindkiya, Post- Joosariya, District- Nagaur, 341502 Rajasthan.
Hobbies	:	Teaching and playing outdoor games.

Reference

Prof. K. Narasimhan Department of Metallurgical Engineering & Materials Science Indian Institute of Technology Bombay, India Email: <u>nara@iitb.ac.in</u>

Declaration

I hereby declare that the information given above is true to the best of my knowledge and belief.

Date: June, 2020 Place: Jaipur (JITENDRA JANGID)