

I. Chakradhar
M.Tech. Metallurgical & Materials Engineering
Industrial Metallurgy
Postgraduate (IInd Year Ist Semester)
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Indian Institute of Technology Roorkee

Area(s) Of Interest : Finite Element Analysis, Inspection and Quality Control, Foundry

Educational Qualifications	Year	Board/Institution	CGPA*/%
Postgraduate (Ist Year IInd Semester) (Metallurgical & Materials Engineering)	2009	I.I.T.Roorkee	7.640
Undergraduate Overall (Production and Industrial Engineering)	2008	G.Pulla Reddy Engineering College, kurnool ,AndhraPradesh	80.330
Twelfth Class	2004	Bharath Junior College, Nizampet Road, Hyderabad , AndhraPradesh	80.600
Tenth Class	2002	Sri lakshmi English Medium School, Kurnool, AndhraPradesh	83.170



*GPA on a scale of 10

PROJECTS

Indian Institute of Technology, Roorkee/M/S Star Wire (India) Ltd, Ballabgarh.

Characterisation of a Nitronic Steel. (November 2009-June 2010)

Presently in the hydro electric projects the steel used is 13/4 Martensitic Stainless Steel, but the problem encountered during rainy season the water contains a lot of silt in the water flowing to the turbine. When it strikes the turbine blade there is erosion of the material which results in failure of material as martensitic stainless steel is difficult to weld. So, a substitute nitronic steel is developed which has better mechanical properties than martensitic steel due to addition of nitrogen in the steel.

Indian Institute of Technology, Roorkee

Comparitive Study of Erosion Behaviour of 13/4 Martensitic Steel and Nitronic Steel (September-October 2009)

A study on the mechanical properties, erosion behavior of 13/4 Martensitic Steel and Nitronic Steel is done and a comparison on both steels is carried out. As there are many drawbacks when we 13/4 Martensitic Steel such as erosion wear and problems encountered in welding the repairs. These can be overcome by using Nitronic Steel. Many such comparative studies are done. suggestions are given for the two steels.

Indian Institute Of Technology, Roorkee.

Steels used for under water parts in Hydro Electric Projects. (July-August, 2009)

Classification of the steels used for under water parts in hydro electric projects, discussing problems encountered in it while working, suggesting the required remedies.

G.Pulla Reddy Engineering College, Kurnool.

Optimization of Spur Gear Design (December 2007-April 2008)

In this project we discussed the all types of gears present and took spur gear as our case study. Optimized the design of Spur gear,calculating all the necessary mathematical equations, generating a program in C-Language. By giving the values for the variables in the program , it calculates all the necessary data and displays it.

SKILLS AND ACHIEVEMENTS

Computer Languages:	C, C++, Oracle, VB.net, SQL.
Software Packages:	MS Office, AutoCad, ANSYS, Matlab
Academic Achievements:	Stood as third of my class in BTech, Second prize in "Just A Minute" event conducted during my BTech.
Additional Courses Taken:	Finite Element Analysis
Languages Known:	English (S/R/W); Hindi (S/R/W); Telugu (S/R/W);

EXTRA CURRICULARS

DYNAMECH'07, PRAYOJANA Paper Presentation Contest, Jawaharlal Nehru Technological University, Ananthapur. (2007)
Presented a Paper on "Bio Modelling using Rapid Prototyping".

Industrial & Production Engineering Technical Forum, G.Pulla Reddy Engineering College, Kurnool. (2006-2007)
As a Technical Executive Member.

One Day National Level Workshop on "Supply Chain Management" ,G.Pulla Reddy Engineering College, kurnool. (2006-07)
Member of Organizing Committee.

Just A Minute, Technical forum- Mechanical Department, G.Pulla Reddy Engineering College, Kurnool. (2008)
Second prize in the event.

Bi-Decennial College Celebrations, G. Pulla Reddy Engineering College, Kurnool. (2005-2006)
Stood as Runners in Basket Ball, Handball.

HandBall Competition. (2007-2008)
Winners in college level.

AADIPT, Cautley Bhawan Day (2008-2009)
Bhawan Day Organizer and Cricket Organizer.

Blood Donation Camp, I.I.T.Roorkee. (2008,2009)
Participated twice in donating Blood.

PERSONAL DETAILS

Fathers name :	I .VENKATESH	Date of Birth :	03-03-1987
Gender :	Male	Category :	General
Permanent Address :	H.No: 45-24-k26/4A, Plot no: 16, Machani Somappa colony, Kurnool 518003		
Present Address :	Room number:BF-24, Cautley Bhawan, I.I.T.Roorkee-247667.		
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REFERENCES

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