

**PIYUSH GULATI****B.Tech Metallurgical & Materials Engineering****UG ( IV Year I Semester )****Registration No : BT/MT/060636/10****E-mail ID : gulatipiyush@gmail.com****Indian Institute of Technology Roorkee**

<b>Educational Qualifications</b>	<b>Year</b>	<b>Board/Institution</b>	<b>CGPA* / %</b>
UG ( III Year II Semester )	2009	Indian Institute of Technology, Roorkee	8.745
Twelfth Class	2006	Delhi Public School, Faridabad	89.000
Tenth Class	2004	Delhi Public School, Faridabad	95.600



\*GPA on a scale of 10

**INTERNSHIP****Institut Materiaux Microelectroniques Nanosciences de Provence(IM2NP), Toulon, France**  
**Synthesis and Characterisation of Gold nanoparticles ( May-July 2009 )**

Gold nanoparticles show very promising properties such as field enhancement depending on the size and the aspect ratio. Different methods were used for the synthesis of Gold Nanorods which were then characterised using TEM, UV-Vis Microscopy and AFM. These nanorod samples prepared were eventually used for surface enhanced Raman Spectroscopy.

**Escorts Limited-Agri Machinery Group, Faridabad****Industrial Visit ( 17th-22nd December 2007 )**

Visited the metallurgical labs and assembly lines and R&D Centre. Also attended a session on TQM implementation regarding good housekeeping viz. 5s principles

**PROJECTS****B.Tech Project, Metallurgical and Materials Engg. Department, IIT Roorkee****Development of Al-Cu-Zn Novel Alloys with inherited intermetallic phases ( Aug 2009-present )**

The work is to develop novel alloys of Al-Cu-Zn system by creating intermetallics which may not occur naturally to that system. Alloying has to be done to take advantage of slow dissolution kinetics and solidification before the entire intermetallic could get dissolved. Mechanical properties will thus be determined in order to examine the viability of such alloys for structural applications.

**SURA Project, Metallurgical and Materials Engineering Department, IIT Roorkee****Synthesis and study of Corrosion Behaviour of UFG Aluminium alloys ( May-June 2008 )**

Synthesis of Ultra Fine Grained Al-6061 alloy was done using cryorolling( rolling at liquid nitrogen temp) for which the samples were reduced to 90% reduction which took 22-25 hours at a stretch. Corrosion behaviour of these samples was then studied using Simply Immersion Test and Potentiostat test.

**SKILLS AND ACHIEVEMENTS****Computer Languages:**

C, C++

**Software Packages:**

Microsoft Office, MATLAB, Scilab

**Academic Achievements:**

# Departmental Rank 1-Highest CGPA in a batch of 56 students. # Was one of the four students selected from the institute for a semester of study in the National University of Singapore as a part of the exchange programme between NUS and IIT Roorkee. # Receiving an annual scholarship from NCERT for qualifying the National Talent Search Examination. # Was one of the 50 candidates selected all over the country for provision of a scholarship for pursuing

an internship in France. # Meritorious Performance in Mathematics Olympiad- Stood 2nd, 23rd and 1st in Class Xth, IXth and VIIIth respectively in National Mathematics Olympiad(Delhi). # Received scholar badges, blazer, tie and a gold medal for outstanding academic performance in school for 7 consecutive years.

**Additional Courses Taken:**

Modeling and Simulation, Management Concepts and Practice

**Languages Known:**

English ( S/R/W ); Hindi ( S/R/W ); French ( R/W );

## EXTRA CURRICULARS

**IDEAZ, Cognizance'09 ( 2009 )**

Won 3rd prize in the Material Cell of the Paper Presentation Competition organised by Metallurgical and Materials Engg. Dept.

**Quizzotica, Cognizance'09 ( 2009 )**

Worked as Co-coordinator of the centrestage event at Cognizance, the technical festival of our college. Many quizzes were organised during Cognizance under the banner of Quizzotica.

**Literary Section, IIT Roorkee ( 2007-09 )**

Member of this section, responsible for organising quizzes and debates within the campus. Also participated in quizzing and debating events outside the campus as a part of the group.

**Spelling Bee(Literatti), Thomso'07 ( 2007 )**

Won first prize.

**Himalayan Explorers' Club ( 2006-09 )**

Completed a 50 kms trek to The Valley of Flowers and a rafting expedition through the waters of the Ganges as a part of the club

**Cognizance'07, Metallurgical and Materials Engg. Dept. ( 2007 )**

Worked as an Associate Member of the Organising Team.

**Thomso'06 ( 2006 )**

Worked as a Co-ordinator of Informals and volunteer of the Participation cell at Thomso, the youth festival of our college.

**Delhi Public School, Faridabad ( 2005-06 )**

Appointed the Head Boy of the school

## PERSONAL DETAILS

**Fathers name :** Mr. Pradeep Gulati

**Date of Birth :** 13-10-1988

**Gender :** Male

**Category :** General

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## REFERENCES

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