

CURRICULUM-VITAE

Raj Kumar

Ph.D.

Metallurgical & Materials Engineering,

IIT Roorkee,

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PERSONAL DETAILS

Date of Birth: 03-May-1987

Nationality: Indian

Sex: Male

Marital status: Single

ACADMIC QUALIFICATION

Indian Institute of Technology Roorkee, Uttarakhand, India

(Pursuing Doctor of Philosophy)

August 2013 to till date

Courses: Nanomaterials and applications, Technology of nanostructure fabrication, Seminar course.

National Institute of Technology Hamirpur, Himachal Pradesh, India

Master of Technology in Materials Science & Engineering

August 2013

Courses: Characterization of materials, Introduction to materials science & engineering, Thermodynamics of materials, Polymer science & technology, Vacuum science & cryogenics, Electrical & electronic properties of materials, Magnetism & superconductivity, Science & technology of thin films, Phase transformations in materials, Energy management, Self study (Electro ceramics), Seminar (Ferroelectric materials), Major project.

D.N. College, Meerut, C.C.S. University Meerut Uttar Pradesh, India

Master of Science in Physics

June, 2009

Courses: Mathematical Physics, Classical Mechanics, Quantum Mechanics, Electromagnetic Theory, Statistical Mechanics, Electronics, Nuclear Physics, Physics of Atoms and Molecules, Digital Electronics, Electronics and Communication, Solid state physics.

D.N. College, Meerut, C.C.S. University Meerut Uttar Pradesh, India

Bachelor of Science

June, 2007

Courses: Physics, Chemistry, Mathematics.

D.A.V Inter College, Tatiri Baghpat Uttar Pradesh, India

Intermediate

May, 2004

Courses: Physics, Chemistry, Mathematics, English, Hindi.

Professional Qualification

Maharshi Dayanand University, Rohtak, Harayana, India

Bachelor of Education

June 2010

RESEARCH EXPERIENCE

➤ **National Institute of Technology Hamirpur**

Project Title: Growth & characterization of MoO₂ thin films.

WORK EXPERIENCE

➤ Worked as **Post Graduate Teacher (Physics)** in Lakshya Public School, Baghpat in the session 2010-2011.

SKILLS

Experimental Techniques

- Pulsed Laser Deposition
- Spin Coating System
- Chemical Vapour Deposition
- Electrophoresis Deposition
- X-Ray Diffraction
- Scanning Probe Microscopy (AFM, MFM, STM)
- UV Spectroscopy
- Raman Spectroscopy
- Photo luminescence

Computer Skills: MS Office, Origin, PowderX, Pico Image, X'Pert HighScore.

Languages read and write: English, Hindi.

SCHOLAR SHIP AND AWARDS

- Awarded **Silver Medal** in Master of Technology at NIT Hamirpur.
- Graduate Aptitude Test in Engineering (GATE)-2011 with **Gate Score-347** and **All India Rank - 811**.

CONFERENCES AND WORKSHOPS

- Attended National workshop on “**Nano Science and Technology (NST-2013)**” organized by Centre for Material Science and Engineering, National Institute of Technology, Hamirpur on 3-7 June, 2013.
- Attended National seminar on “**Recent Trends in NanoScience & NanoTechnology: Applications and Advantages**” organized by KNGD Modi Engineering College’ Modinagar on 9th April’ 2011.
- Attended National seminar on “**Recent Trends in the advancement of Mathematical and Physical Sciences - II**” organized by Deptt. of Physics, D.N. College Meerut on 30-31 January, 2010.
- Attended National seminar on “**Environment & Human Concern**” organized by Deptt. Of Physics, D.N. College Meerut on 17 February, 2008.

Information updated on 20 January, 2015