

# REVINGTON BABU

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## Academic Profile:

- **Master of Philosophy in Physics (85%)**, Bharathidasan University, Trichy, TN, India (2011)
  - **Outstanding performance**
- **Master of Science in Physics (74.32%)**, Bharathidasan University, Trichy, TN, India (2009)
  - **Outstanding performance**
- **Bachelor of Education (63.43%)**, Manonmaniam University, Tirunelveli, TN, India (2006)
  - **Best Teacher Trainee**
- **Bachelor of Science in Physics (91.37%)**, University of Madras, Trichy, TN, India (2004)
  - **Gold medalist**

## Research Experience:

### **Synthesis and Characterization of pure and doped ZnO nano material at M.Phil (Pre-PhD) level (2011)**

Pure and Copper doped Zinc Oxide (ZnO) nano rods were synthesized by solvothermal route. Structural characterization of X-ray diffraction (XRD) technique confirmed the incorporation of Copper in ZnO lattice and the wurtzite structure of ZnO and also advocated that the average size of the particle has been significantly reduced. The amount of incorporation of copper into ZnO was confirmed using EDAX. Using UV-Vis and FTIR, significant changes in optical properties with regard to the change in doping concentration have been reported. The subtle variation in photoluminescence properties was recorded using PL Spectrometer. Scanning Electron Microscope (SEM) observations indicated that the length of the particle was five times more than its thickness confirming that the majority of the as-synthesized ZnO nano materials were nano rods.

- Got selected to work in a National Laboratory to work along with scientists on equipments such as AFM, STM, SEM, TEM, etc for a part of my research on ZnO nanomaterial (2010)
- Dissertation on **“Carbon Nanotube: The Ruler of the New Era”** at M. Sc level (2009)

### Teaching Experience:

- Worked as a lecturer in Physics for under graduate students at Sacred Heart College, Khammam, AP, India (June 2009 – May 2010)
- Worked as a part-time Spoken English and Communication Skills Trainer at Optim (June 2007 – May 2009)

### Areas of Interest:

Nanotechnology, Biophysics, Statistical Mechanics, Medical Physics and Energy Physics

### Language Proficiency:

**IELTS Academic:** Overall Band Score – **7.0** (Test Date: 20/Nov/2010)

### Special Academic Awards:

- Got **best student** award in Physical Science for outstanding performance in Bachelor of Education at St. Xavier's College of Education, Palayamkottai, TN, India (2006)
- Got a **gold medal** for outstanding performance at under graduation level (B.Sc) at Sacred Heart College, Tirupathur, TN, India (2004)
- Got a "**Best student in Science**" award at Secondary School level at St. Mary's Higher Secondary School, Tirunelveli, TN, India (1995)
- Studied a special paper on **Biophysics** at under graduation level and got **first rank with 96%**

### Certificate Courses:

- Certificate course on C and C++ programming (2011)
- Certificate Course on English Typing (2003)
- Certificate Course on Communicative English (2003)
- Certificate Course on Information Technology (2006)
- Certificate course on Project Management (2007)
- Certificate Course on Neuro Linguistic Programming (2008)
- One Year PG Diploma on Spirituality (2007)

### **Special Conferences and Seminars:**

- Attended an Orientation Program for Research Scholars at St. Joseph's College, Trichy (18<sup>th</sup> January 2011)
- Attended an International Conference on Nanosonics and Ultrasonics at St. Joseph's College, Trichy (12<sup>th</sup> -14<sup>th</sup> January 2011)
- Attended an International Workshop on Wide Band gap Semiconductor Nanostructures at Anna University, Chennai (10<sup>th</sup> – 11<sup>th</sup> January 2011)
- Attended a National Conference on Nanomaterials and their Applications at National Institute of Technology, Trichy (23<sup>rd</sup> October 2010)
- Attended a state level workshop on "Recent Trends in Physics" (11<sup>th</sup> - 13<sup>th</sup> October 2010)
- Attended a National Seminar on Nano Science and Technology at Jamal Mohamed College, Trichy (7<sup>th</sup> October 2010)
- Attended a National Symposium on Recent Trends n Nanoscience and Technology at Anna University, Chennai (9<sup>th</sup> September 2010)
- Attended a National Seminar on "Recent Advances n Spectroscopic Techniques) at Bishop Heber College, Trichy (7<sup>th</sup> September 2010)
- Attended a special workshop on Thesis Writing and Scientific Paper Publishing (3<sup>rd</sup> and 4<sup>th</sup> January 2008)

### **Co curricular activities:**

- Attended a state level electronics symposium and got third prize in technical competence (2003)
- Got first place in English Extempore at State Level Intercollegiate Competition (2005)
- Got second place in English Verse Writing at State Level Intercollegiate Competition (2005)
- Got second place in Folk Dance at State Level Intercollegiate Competition (2005)
- Got first place in Advertisement making at Intercollegiate Competition (2001)
- Got Championship in Shuttle Badminton at Intercollegiate Competition (2005)
- Authored a book on Effective Communication in English (2008)
- Co worked for two documentary films (2008)

### **Competencies:**

Creative, Innovative, Reliable, Highly motivated to achieve, Love to work as a team, Natural motivator

### **Hobbies:**

Photography, Music production, Traveling and Sports, Documentary film making, Verse writing and Yoga sciences

### **References:**

1. **Dr. Leo Rajesh**

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