

CURRICULUM VITAE

VIRENDRASINH HAMIRSINH KHER

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Polytechnic, The M.S.University of Baroda
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PERSONAL DETAILS:

NAME : Virendrasinh Hamirsinh Kher
DATE OF BIRTH : 11Th November 1965.
NATIONALITY : Indian
SEX & MARITAL STATUS : Male, Married
ADDRESS : 59, Dakshinamurty Residency,
Near Pratham Enclave,
Opp. Sun Pharma Laboratory,
Atladara, Vadodara – 390 012,
Gujarat, India.



EDUCATION:

MASTER OF ENGINEERING, 2000-2002

Master of Engineering in Computer science & Engineering from Thaper Institute of Technology, Deem University, Patiyala, Panjab, India.

Project title: **“Short Term Electrical Load Forecasting Using Functional-link Neural Network”**.

MASTER OF SCIENCE 1989-1991

Master of Science in Applied Physics, from The M.S.University of Baroda, Vadodara, Gujarat, India.

Project title: **“Optical and electrical study of CdTe thin film”**

BACHELOR OF SCIENCE 1985-1988

Bachelor of Science in Physics, from Sought Gujarat University, SURAT, Gujarat, India.

Subsidiary Subjects: Mathematics and Chemistry

PROFESSIONAL EXPERIENCE

Permanent Lecturer, Nov.94 – Present.

Applied Physics Department, Polytechnic, The M. S. University of Baroda, Vadodara, Gujarat, India.

Courses : Engineering Physics theory and practicals in first and second semester
Diploma in Civil, Mechanical, Electrical and Petrochemical Technology Classes

Temporary Lecturer, Oct.1991 – Nov. 1994

Applied Physics Department, Polytechnic, The M. S. University of Baroda, Vadodara, Gujarat, India.

Courses : Engineering Physics theory and practicals in first and second semester of
Diploma in Civil, Mechanical, Electrical and Petrochemical Technology Classes.

ADMINISTRATIVE EXPERIENCE

Lecturer-in charge, 1998 – Present.

Applied Physics Department, Polytechnic, The M. S. University of Baroda, Vadodara, Gujarat, India.

Deputy Director, Dec.1998 - Dec.1999

Extended Diploma Courses, Polytechnic, The M. S. University of Baroda, Gujarat, India.

RESEARCH SKILLS

1. In my project work of Master of Science, a systematic study of thin film of CdTe and $\text{In}_{80}\text{Se}_{10}\text{Te}_{10}$ semiconducting compound were carried out. The thin films were deposited by vacuum evaporation method at 10^{-5} torr pressure. Measurements of film thickness were carried out by multiple beams interferometry method. Electrical resistivity measurements of thin films were carried out by four-probe method. Optical absorption in thin films were studied by using spectrophotometer. Activation energy and optical band gap for allowed direct transition, allowed indirect transition and forbidden indirect transition were estimated. The sign of charge carrier in thin film were determined by thermoelectric phenomenon.
2. In my project work of Master of Engineering the studies of the short term electrical load forecasting were carried out keeping the fact in mind that there are good prospects of forecasting application of artificial neural network in the field of power sector. The short-term loads were forecast with the help of tensor model of Functional-Link Network (FLN). Attempts were made for forecasting short-term electric load pattern of one hour ahead.

RESEARCH INTERESTS

In computer science engineering and its application.

In general experimental physics of nanometer-sized semiconducting and magnetic materials, colloidal metal, and its application.

PROFESSIONAL MEMBERSHIPS

Indian Society for Technical Education (ISTE)

RESEARCH PUBLICATIONS:

V. H. Kher, S.K.Joshi, “Short Term Electrical Load Forecasting Using A.N.N.” Australasian Uni. Power Engineering Conference, Christchurch, NewZealand, 28th Sept.–1st Oct.2003.

PARTICIPATION IN CONFERENCES/ SEMINARS WORKSHOP ETC.

- (i) Short term in service programme on “Updating Engineering Physics”, February 12-25, 1996 Institute of Engineering & Rural Technology, Allahabad, India.
- (ii) Short term in service programme on “Application of Solar Energy Technologies”, March 17-30, 1998 Institute of Engineering & Rural Technology, Allahabad, India.
- (iii) AICTE-ISTE Winter School on “Use of Internet in Instructional Design”, October 5-17, 1998; Assam Engineering Institute, Guwahati, India.
- (iv) AICTE-ISTE Winter School on “Multimedia technology & Computer Based Training”, November 18- December1, 1998; Kongu Engineering College, Perundurai, Erode, India.
- (v) Instructional Workshop on “Soft Computing with MATLAB”, January 7 – 12, 2002 Faculty of Technology and Engineering, The M.S.University, Baroda, India.
- (vi) AICTE-ISTE Short term Training programme on “Recent Advances in Medical Diagnostic Techniques”, November 11- 23, 2002 Mar Athanasius College of Engineering, Kothamangalam, Kerala, India.
- (vii) AICTE-ISTE Short term Training programme on “Biomedical Engineering”, December 30, 2002- January10, 2003 Nirma Institute of Technology, Ahmedabad, Gujarat, India.

- (viii) International Workshop on “Nanomaterials, Magnetic Ion and Magnetic Semiconductors”, February 10-14, 2004, Physics Department, The M.S.Uni., of Baroda, Gujarat, India.
- (ix) AICTE-ISTE Short term Training programme on “Mainframe Midrange and Microcomputer, Plus Technical Articles”, November 15 – 27, 2004 organized by the Department of Computer Science and Engineering of Sri Sivasubramaniya Nadar College of Engineering, Chennai. Tamil Nadu.
- (x) AICTE-ISTE Short term Training programme on “Introduction to Office XP and Computer Application”, December 06 – 17, 2004 at the College of Technology, G. B. Pant University of Agriculture and Technology, Pantnagar, Uttaranchal.

REFERENCE:**1. Prof. C. F. Desai**

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2. Prof. V.N.Potbhare

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