

# CURRICULUM VITAE

## DR. PARUL VERMA

538Ka/133 Pili Kothi, Mausam Bagh,  
Sitapur Road, Lucknow-226024  
Phone#91-0522-2759754, 9839289870  
Email-id - [parul\\_rastogi@yahoo.com](mailto:parul_rastogi@yahoo.com)

### Objective

---

To explore new dimensions in teaching and the area of research work. To utilize my teaching skills and knowledge in the best manner being as a part of a growth oriented and leading edge Organization/Institute that recognizes and values individual contribution and provide opportunities for continuous growth and advancement.

### Current Employment

---

Working as Asst. Professor at AIIT Department of "AMITY UNIVERSITY, LUCKNOW CAMPUS", since August, 2010

My responsibilities includes taking classes of M.Tech (CS), B.Tech (CS,IT), MCA, BCA, B.Sc. (IT) and MBA (IT) courses. I am also involved in guiding MCA, BCA and B.Tech (CS) students in their live project work.

### Research Experience

---

#### From July, 2008 to July 2010

Worked as a Research Scholar at "BabaSaheb Bhim Rao Ambedkar, University, Lucknow"

### Professional Experience

---

#### From January 2004 to June 2008

Worked as a Lecturer with "Sahara Arts & Management Academy, Lucknow".

My responsibilities includes taking classes of MCA, BCA and MBA(IT) courses. I am also involved in guiding MCA and BCA students in their live project work.

#### From December 1998 to December, 2003

Worked as Programmer with "Sahara Arts & Management Academy, Lucknow"

My responsibilities includes the development and maintenance of the in-house automation projects for Sahara Arts & Management Academy, Lucknow

**From June 1997 to Nov. 1998**

Worked as Sr. Faculty with “**Software Technology Group Intl Ltd., Lucknow**”

My job responsibility includes imparting technical knowledge to students and corporate sector.

## **Research Activities**

---

### **International Journals**

1. “**An Entropy Based Method for Removing Web Query Ambiguity in Hindi Language**”, In Journal of Computer Science (JCS) 4 (9): 762-767, 2008, ISSN: 1549-3636
2. “**Performance Evaluation of Search Engines Supporting Hindi Language Search**”, In Intl. Journal of Emerging Technologies and Applications In Engineering Technology and Sciences (IJ-ETA-ETS)-3(1), 291-294, 2010 ,ISSN-0974-3588
3. “**Hindi Language Morphology and Search Engine Performance**”, in International Journal of Computational Intelligence Research (IJCIR), 6(1), 59-75, 2010, ISSN- 0973-1873
4. “**Impact of language morphologies on Search Engines Performance for Hindi and English Language**”, in International Journal of Computer Science and Information Security (IJCSIS), 8(3), 172-178, 2010 , ISSN- 1947-5500
5. “**Performance comparison of Word Sense Disambiguation (WSD) Algorithm on Hindi Language Supporting Search Engines**”, in International Journal of Computer Science Issues (IJCSI) , 8(2), 375-379, 2011, ISSN-1694-0814
6. “**Query Clustering and its Application in Word Sense Disambiguation**”, in International Journal of Emerging Trends & Technology in Computer Science, 1(2), 38-44, 2012, ISSN-

### **Conferences**

7. Published and presented paper on “**WSD Approaches for Information Retrieval**” , In Proceedings of International Conference on Advanced Computing Techniques,2008 December 26 – 27, 2008 at Gokaraju Ranga Raju Institute Of Engineering And Technology, Hyderabad, pp. 569-573 ISBN : 978-81-7800-188-3

8. Published and presented paper on **“Critical Analysis of WSD Algorithms , In Proceedings of Intl. Conference on Advances in Computing, Communication and Control”**, 2009, In association with ACM SIGART , January 23 – 24, 2009 at Fr. C. Rodrigues College of Engineering, Mumbai, pp. 62-67, ISBN: 978-1-60558-351-8
9. Published paper on **“Challenges and Solution for the Web Information Retrieval (WIR) in Hindi Language”**, In Proceedings of International Conference on Emerging Trends in Computing, 2009 January 8 – 10, 2009 at Kamaraj College of Engineering and Technology, Virudhunagar, pp. 15-18
10. Published paper on **“Removing Ambiguity using Hybrid Semantic Similarity Measure”**, In Proceedings of IEEE Intl. Conference on Control, Computing, Communication & Materials, August 03-04, 2013, at United Institute of Technology & Managementj, Allahabad, pp ISBN

#### **National**

11. Published paper on **“Survey of WSD Approaches in Context of Web Content Mining”**, in Journal of Computer Science of ICFAI, University Press
12. Presented a paper on **“Soft Biometrics: Assisting User Recognition”** in National Conference at IFTM, Moradabad
13. Published paper on **“Grid and Web Services are Ready to Converge”** in the proceedings of the National Conference at Bharati Vidyapeeth’s jointly with CSI Delhi Chapter.
14. Presented a paper on **“Semantic Web Mining : Integrating to the E-learning Domain”** in National Conference at BabaSaheb Bhim Rao Ambdedkar University, Lucknow
15. Published a paper on **“Web Information Retrieval: Exploring new dimensions with Word Sense Disambiguation (WSD) for naïve users”** in CSI communications, October 2007, Volume 31, p.p 35-39

#### **Others**

16. A working paper on **“E-Wate : Darker side of Electronic Age”** was released by Sahara Arts & Management Academy, Lucknow

17. Presented a paper in the college seminar of Sahara Arts & management Academy, Lucknow on “**Grid Computing harnessing the computational power**”.

### Area of Research

---

The title of my research work is “**IMPROVING RELEVANCY OF HINDI INFORMATION RETRIEVAL ON WEB USING WORD SENSE DISAMBIGUATION AND SYNONYM MANAGEMENT**”.

Sense Disambiguation is a very common problem in the information retrieval system. In every language many words are ambiguous, the words which have multiple senses. In Hindi language also there are lots of ambiguous words. Ambiguity of words in any language deteriorates the performance of Web Information Retrieval. The objective of my research work is to improve the efficiency of Web Information Retrieval in Hindi language.

### Research Interest

---

- Word Sense Disambiguation
- Hindi language Web Mining
- Web Mining

### Subjects of interest and taught

---

- Web Technologies
- E-Commerce
- .Net Architecture (C# /VB.Net / ASP.Net)
- JAVA (J2EE, EJB, JSP and other advance Java concepts)
- C Programming, OOPS and C++
- SAD and Software Engineering
- Data Base Management System
- Operating System, Distributed Systems
- ERP Systems

### Projects Undertaken

---

**#1 Project Title- Library Management System (Two tier application)**

It is an in house project developed for the library of “**Sahara Arts & Management Academy, Lucknow.**” The whole inventory of Library is managed by this System. And complete issue and return of books is done by this software. It has a full fledged query facility and report generation features.

**Environment-** Windows, Visual Basic 6.0, Oracle 8i, Crystal Reports.

**Role -** Responsibilities of Analysis, Design and Coding.

**Team size** – Two personnel

**#2 Project Title- Student Information System (Two tier application)**

It is an in-house product to manage the information of students enrolled in various courses. Their status, fees and examination details.

**Environment-** Windows , Oracle 8.0i, Visual Basic 6.0

**Role** – Responsibilities of Analysis, Design and Coding.

**Team size** – Two personnel

**#3 Project Title- Online Test (Single tier Application)**

This is an in-house project to conduct online technical and aptitude tests for the students.

**Environment-** Windows 98 and above, MS-Access, Visual Basic

**Role** – Responsibilities of Analysis, Design and Coding.

**Team size** – Two personnel

### **Trainings Attended**

Attended high end training for Unix at Software Technology Group International, New Delhi.

Attended .Net training at Sahara Arts & Management Academy, Lucknow.

Attended a Faculty Development Programme, at UPTU Lucknow for Microsoft Technologies.

Attended one week Summer School at NIT, Hamirpur sponsored by TEQUIP on Natural Language Processing.

### **Professional Memberships**

- **International Association of Engineers (IAENG):**  
Membership Id: 114343
- **International Association of Computer Science and Information Technology (IACSIT) :** Member Id: 80342218
- **Internet Society (ISOC) :** Member Id: 270161
- **IET UK :** Member Id: 1100266006

### **Educational Qualification**

- **Ph.D.** (in Computer Science) from BabSaheb BhimRao Ambedkar University, Lucknow in 2012

- **MCA** from IGNOU in 2003 with I Div.
- **CIC** from IGNOU 1999 with I Div.
- **Diploma in Computer Studies** from BITS, Lucknow in 1997 with I Div.
- **B.Sc.** from University of Lucknow, Lucknow in 1996 with I Div.
- **Intermediate** from U.P. Board in 1992 with I Div.
- **High School** from U.P. Board in 1990 with I Div.

### Personal Details

---

Husband - Mr. Sandeep Verma  
Date of Birth - 06<sup>th</sup> September, 1975  
Residence - 538Ka/133, Pili Kothi, Mausam Bagh,  
Sitapur Road, Lucknow - 226 024  
(Ready to relocate)  
Contact Nos. - 9839289870

( Dr. Parul Verma )