

## **Sanjay Tanwani**

### **Designation**

Professor & Head, School of Computer Science, D.A. University, Indore

Dean, Engineering Sciences from March 2010 - March 2012

Member, Executiver Council, D A University from Jan 2011 - March 2012.

### **Date of Birth**

January 20, 1966.

### **Academic Qualification**

- M.E. Computer Engg.
- Ph.D. Computer Engineering

### **Date of Joining**

Programmer : Jul86 – Oct 90  
Lecturer : Oct90 – May93  
Reader : Jun93 – Jun 2004  
Professor : Jun 2004- till date

### **Teaching& Industry Experience**

I worked as a programmer in Devi Ahilya University Computer center for four years (1986-1990), then worked as a Lecturer (1990-1993) & Reader (1993-2000) in Computer Science Department of D. A. University, Indore before joining Internet Software division group at Impetus in August 2000 taking 3 years extra ordinary leave from University. Apart from teaching and research, I have done consultancy & development work for package based software like 'Thermal Simulation of buildings' and contributed in the development of various softwares, like examination system, payroll system, and entrance examinations for the university. I was given best teaching award in the department for the year 2006 & Best Teaching Award by M.Tech. Students in the April 2009. The table below describes my experience in reverse chronological order.

Name of Institution	Position Held	From	To	Total Experience
School of Computer Science	Professor	2/6/2004	Till date	8 years
School of Computer Science	Reader	2/8/2003	1/6/2004	1 year
Impetus Computing	On EOL from University	3/8/2000	1/8/2003	3 years
Institute of Computer Science	Reader	1/6/1993	2/8/2000	7 years
Institute of Computer Science	Lecturer	14/10/1990	31/5/1993	2.5 years

Computer Centre, DAVV	Programmer	23/7/86	14/10/1990	4 years
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### ***Awards & Scholarships***

- Best Teaching Award 2009 by M.Tech Students in the department.
- Best Teaching Award 2006 by School of Computer Science students

### ***Chairman, Academic Planning at School of Computer Science***

Working as a Chairman, Academic Planning at SCS. Academic planning includes detailed syllabus design, teaching plan, assessment schedule, monitoring as per **ABET** standard. In future, our department may decide to go for international **ABET** accreditation.

### ***Teaching***

Taught a number of subjects at MCA/MSc(CS)/M.Tech. level mainly Data & File Structures, Data structures using C++, Operating Systems, Object Oriented Analysis & Design, Software Engineering, Database Management Systems, Parallel Processing, Advanced Computer Architecture, Software Testing & Quality Assurance, Embedded Systems Design for M.Tech. Embedded Systems

### ***New courses introduced during the year***

- Introduced new topics on Advanced Databases taught at M.Tech level
- Introduced new topics on Software testing automation under Software testing & QA course.
- Taught Database Management Systems and introduced new topics like Spatial & Mobile Databases for M.Tech Mobile Computing & M.Tech. Spatial Information Technology.

## **SECTION – II**

### ***Education***

Ph.D. Computer Science Title “Quality of Service issues in Real-Time Databases” April 2007 under Prof. A.K. Ramani.

M.E. Computer Engineering,

Shri G.S.I.T.S., Indore, 1990

B.E. Computer Engineering

" , 1986

### ***Research Paper Publications***

List of Research Papers Published:

### **International Journals:**

1. S. Dubey, N. Rahatkar, D. Parmar, S. Tanwani, "Personal Mail Organizer with Information Management & Text Mining Application, International Journal of Computer Science & Communication Networks, April 2012.
2. D.S. Bhilare, A.K. Ramani, S. Tanwani, "Information Protection in Academic Campuses: A Scalable Framework", American Journal of Computer Science 4(10): pp 864-870, 2008
3. D.S. Bhilare, A.K. Ramani, S. Tanwani, "Keeping an Eye on Trusted Insiders: A Real-Time, Agent Less Architecture", International Journal of Computer Science and Applications, ISSN: 0973-6786, Vol. 3, No. 1-2, pp 185-193, Jan-June 2009
4. D.S. Bhilare, A.K. Ramani, S. Tanwani, "An architecture for a collaborative inter university incident handling mechanism", Accepted by a Taylor and Francis group journal, "Information Security Journal: a Global Perspective", ISSN: 1939-3555.
5. D.S. Bhilare, A.K. Ramani, S. Tanwani, "An investigation of information security issues in the Indian institutes of higher education: current security state and practices", International Journal of Computer and Network Security, ISSN: 2076-2739, Vol.2 No.1, pp 108-114, January 2010.
6. D.S. Bhilare, A.K. Ramani, S. Tanwani, "Information Security Governance and Assessment Strategies: a Framework for Higher Education", Communicated to Elsevier Journal of computers and security,
7. Tyagi Y., Puntambekar T.A., Saxena Preeti, Tanwani Sanjay A Hybrid Approach to Edge Detection using Ant Colony Optimization and Fuzzy Logic International Journal of Hybrid Information Technology Vol. 5, No.1, January, 2012 pp 37-46.
8. Tyagi Y., Puntambekar T.A., Saxena Preeti, Tanwani Sanjay. Performance evaluation of noise reduction filters on electron beam images, Elixir Electrical Engineering 40 (2011), pp 5425-5429.
9. Improved Edge Detection using Modified Ant Colony Optimization, Y.Tyagi, T.A. Puntambekar, Preeti Saxena and Sanjay Tanwani. International Journal of Signal Processing, Image Processing and Pattern Recognition". (Communicated)
10. Ramchand Hablani, Narendra Chaudhari and Sanjay Tanwani. Recognition of Facial Expressions using Local Binary Patterns of Important Facial Parts. International Journal of Image Processing (IJIP) preliminary accepted IJIP-738. ISSN (online) 1985-2304.
11. Sarika Jain, Sunny Bagga, Ramchand Hablani, Narendra Chaudhari, Sanjay Tanwani, Facial Expression Recognition using Local Binary Patterns with Different Distance Measures, sent for International Conference on Advanced Computing, Networking, and Informatics (ICACNI-2013), will be published in International Journal of Advances in intelligence and soft computing, Springer, 2013.

## **National/ International Conferences (IEEE/ACM):**

1. National Conference on eLearning by ICIET, New Delhi Apr26-28, 2012
2. D.S. Bhilare, A.K. Ramani, S. Tanwani, "Information Security Assurance for Academic Institutions Using Role Based Security Metric: an Incremental Approach", ACM International conference on advances in computing, communication and control 2009, ICA3 2009, 23-24 January 2009, p502-507, Mumbai.
3. D.S. Bhilare, A.K. Ramani, S. Tanwani, "Information Security Assessment & Reporting: Distributed Defense", IEEE International conference on Emerging Technologies in E-Government ICEG 2008, 18 Dec. 2008, p89-101, IIT Delhi.
4. D.S. Bhilare, A.K. Ramani, S. Tanwani, "TITAS: A Real-Time, Agent-less "Trusted Insider Tracking and Alerting System"" , WCSET 2009: World Congress on Science, Engineering and Technology. Rome, Italy, April 28-30, 2009 [Accepted]
5. D.S. Bhilare, A.K. Ramani, S. Tanwani, "Information Security Risk Assessment & Pointed Reporting: Scalable Approach", IEEE International conference on computer engineering and technology, ICCET 2009, 22 January 2009, Singapore. Page(s): 365-370. Digital Object Identifier 10.1109/ICCET.2009.218
6. D.S. Bhilare, A.K. Ramani, S. Tanwani, "Protecting Intellectual Property and Sensitive Information in Academic Campuses from Trusted Insiders: Leveraging Active Directory", ACM SIGUCCS International conference 2009 on communication and collaboration, St. Louis, USA 11-14 October, 2009, Pages 99-104, ISBN:978-1-60558-477-5, <http://doi.acm.org/10.1145/1629501.1629520>
7. D.S. Bhilare, A.K. Ramani, S. Tanwani, "Information Security Assurance: Distributed Organization Structure" p379, IEEE International Conference on Emerging Trends in Computing, ICETiC 2009, 8-10 Jan 2009, p129-135, Kamraj College, Madurai.
8. Sarika Jain, Sunny Bagga, Ramchand Hablani, Narendra Chaudhari, Sanjay Tanwani, Automatic Facial Expression Recognition Using LBP of Essential Facial Parts and Feed Forward Neural Network, communicated for International Conference on Emerging Trends and Applications in Computer Science – 2013, Shilong, India.

## **Ph.D. Guidance**

Five candidates registered.

- Schema Matching for Web Databases – Sumit Jain
- Investigation of Aspect Mining Techniques – Yasmin Sheikh
- Web Services Security- Ms. Nidhi Arora
- Business Intelligence – Mr. B.K. Swamy
- Hybrid Models for Aspect Mining – Vasanti Dutta
  
- Information Security – Shri D.S. Bhilare (Co-guide with Prof. A.K. Ramani)  
(Completed in July 2010)

## **Membership of Professional Bodies**

Member, ISTE , IEEE & ACM

### ***Professional Consultancy***

- Member, Technical Committee, M P Road Development Corporation, Bhopal.
- Member, Technical Committee, State Bank of Indore

### ***Conference/Workshop Organised***

- Organised one day workshop on eGovernance: Issues and Challenges on Dec 15, 2012.
- Organised one day workshop on Quality Issues in Academics, Paper Setting & Evaluation on Sep 26, 2012
- Organised one day workshop on Mobile Computing on March 5, 2012
- Organised one day workshop on 'Teaching Methodologies in Database & Data Mining' on Feb 13, 2012
- Organised one day workshop on Ethical Hacking in Jan 2012
- Organised a one day workshop on Data Mining on July 31, 2009 at SCS&IT
- Session Chair & Organised two day National Conference on Architecturing future IT systems on Oct 17-18, 2008.
- Organised Hospitality, Transport & Session arrangements in Shanthi Swaroop Bhatnagar Award Winners Conference, July 17-19, 2009.

### ***Institutional Development***

- Contributed to development of International Institute of Professional Studies, DAVV (IIPS) since its inception. Designed the scheme and worked as visiting faculty for six years.
- Contributed to development of IET since its inception. Helped design the curricula of M.E. Computer Engineering and worked as visiting faculty for some time.
- Coordinated MP Online activities for online registration, enrolment, exam form filling & admit card generation for 300+ affiliated colleges

### ***Department & University Contribution***

#### ***Dean, Faculty of Engineering Sciences***

Dean, Faculty of Engineering Sciences since Feb 2010.

#### ***Coordinator, UGC SAP***

The school received a grant of Rs. 45.6 Lacs for the purpose of development of laboratory for Database & Data Mining. The lab is functional and three Ph.D. candidates are registered in the area and also used for training programmes.

#### ***Member, Inspection committee***

Worked as member, inspection committee for affiliation of computer related courses at under graduate level in various colleges.

#### ***Member, Flying Squad***

Worked as member, flying squad for controlling cheating and malpractices in university examination in various colleges.

***Expert member, Selection committee under College Code 28***

Worked as a expert member and university representative in various interviews held in colleges under college code 28..

***Coordinator – Admissions in MCA/M.Tech Full Time courses***

Member, admission committee of M.Tech Full Time programme since aug 2003 and member, admission committee for MCA programme since 1996.

***Participation in Refresher courses organised by the department***

- Participated in refresher courses for teachers organised by the department for Academic Staff College and taught various topics related to Computer Science since 1993.

***Invited Lectures/Presentation in Seminars/Workshops***

- Expert Lecture for EDUSAT on Cloud Computing and Enterprise Resource Planning (ERP) broadcast over 17 nationwide centers on April 11 & 12 2013(Expected and scheduled).
- Planned Video presentations on B.Voc Studies(Around 20) and coordinating another 120 to be completed by July 2013.
- Prepared Video presentations on Database chapters like Concurrency Control, Transaction Management & Teaching Methodologies in Database & Data Mining in March 2011.
- Expert Lecture for EDUSAT on Data Mining through Education Media & Research Centre (EMRC), DAVV for broadcast over 17 nationwide centers May 28, 2010.
- Invited Speaker Data Base Technologies at EMRC March 2010.
- Invited Speaker in Refresher Course at Rajiv Gandhi Prodyogiki VishwaVidyalaya, Bhopal on Feb 11-12, 2011.
- Invited Speaker in Refresher Course at Guru Nanak Dev University, Amritsar Sep 29-30, 2009.

***NBA Accreditation***

- Nominated expert member from AICTE for NBA Accreditation for various engineering colleges across the country.

***UGC***

- Nominated expert member from UGC NET Evaluation of Computer Science paper.

***Public Service Commissions***

- Nominated expert member and done confidential tasks for four state public service commissions.