

Academic vitae of K.Vivekanandan

Name : Dr. K. Vivekanandan

1. Date of Birth and Age : 27.05.1965, 43 years

2. Current Designation and Communication Address : Professor
Department of Computer Science and Engineering
Pondicherry Engineering College
Pondicherry – 605 014
0413-2655281 (Off)
09443777795 (mobile)
k.vivekanandan@pec.edu,
kvivek27@yahoo.com

4. Qualification

	Degree	Specialization	University	Year
1	B.E	Electronics and Communication Engineering	Bharathiyar University	1986
2	M.Tech	Computer Science and Engineering	Indian Institute of Technology, Bombay, Mumbai	1991
3	Ph.D	Computer Science and Engineering	Pondicherry University	2005

3. Experience : 19 Years and 2 Months

	Designation	Organization	Duration	Years of Exp.	Nature of Duties
1.	Scientific Assistant	KBCS Project Indian Institute of Science , Banglaore	24.02.1987 to 16.08.1989	2 Yr. 6 Mts	Research, Developing prototype for parallel Computer
2.	Project Engineer	MACH Project, IIT, Mumbai	12.01.1991 to 04.08. 1992	6 Mnt	Developing MACH Kernel.
3	Member (Research)	Central Research Laboratory, Bharat Electronics Limited, Bangalore	05.08.1991 to 19.09.1992	1 Yr. 1 Mnt	Developing I/O Drivers for Embedded systems
4	Lecturer	Dept. of Computer Science and Engineering (CSE), Pondicherry Engineering College, Puducherry	25.09.1992 to 29.06.1999	6Yr. 9 Mnt	Teaching, Co- curricular and Extracurricular activities
5	Assistant Professor	Dept. of CSE. Pondicherry Engineering College, Puducherry	30.06.1999 to 25.10.2005	6 Yr 4 Mnt	Research, Teaching, Co- curricular, Extracurricular and Member in Govt. Committees activities
6	Professor (Head of the Department from 09.08.2006 to 02.09.2009)	Dept. of CSE, Pondicherry Engineering College Puducherry	25.10.2005 to till date	3Yr 1Mnt and Continuing	Headship, Teaching, Co- curricular, Extracurricular and Member in Govt. Committees activities

- Coordinated the implementation of Campus Network for Pondicherry Engineering College

11. Expertise (Academic and Administrative) to Government and Other Organizations

- **Currently serving as Member Interim School Board of Engineering of Pondicherry University. Currently serving as Member, Board of studies for P.G courses (Computer Science) of Pondicherry University, Member, Board of studies P.S.G College of Technology Coimbatore, Member, Board of studies -Annamalai University**
- **Currently serving as Chairman, Board of Studies in computer Science and Engineering, Pondicherry University**
- **Currently Member of State Apex Committee of Government of Pondicherry. The committee provides strategy direction and to oversee the state e-Governance program and ensure interdepartmental co-ordination.**
- **Served as a Chair for paper presentation sessions in**
 - i. National conference on Communication Technologies (NCCT 2006), Sivakasi 10-11 March 2006,**
 - ii. International Conference on Computational Intelligence and Multimedia Applications (ICCIMA 2007), Sivaksai, December 13-15, 2007**
- **Served /Serving as Member of Doctoral Committee Member for the students pursuing Ph.D at Anna University, Chennai**
- **Served/Serving as Examiner (Ph.D via voce and Thesis examiner) for the students pursuing Ph.D and M.S Computer Science and Engineering of Anna University and Dindukal Gandhi Gram University.**
- **Served as a member of the Inspection Committee (Constituted by Anna University, Chennai) for granting provisional and permanent affiliation to constituent colleges of Anna University Chennai.**
- **Manuscript reviewer IEEE Transactions on Education**
- **Member in Board of Studies for Pondicherry University (B.Sc, B.C.A, M.Sc, and M.C.A)**
- **Served as Member in Board of Studies for Coimbatore Institute of Technology**
- **Delivered guest lecture/keynote address/inaugural address in other institutes/functions or courses organized by the other institutes.**
- **Delivered Lecture in All India Radio, Puducherry**
- **Served as inspection committee member (appointed by Pondicherry University) to inspect Engineering Colleges affiliated to Pondicherry University.**
- **Served as a member of organizing Committee, International Conference on Information Security 2005, Pondicherry Engineering College, Pondicherry,**
- **Member of Purchase committee member for Pondicherry Election Commission, Pondicherry State Cooperative Unions, Computer Aided Learning Programme of Sarva Shksha Abhiyan Govt. of Puducherry, Legislative assembly Secretariat**
- **Served as Coordinator in CENTAC, a committee constituted by Puducherry Government to sponsor students to Govt., and Private Engineering Colleges for B.Tech Degree Course.**
- **Served as Coordinator for two years in MCA-CENTAC, a committee constituted by Puducherry Government to sponsor students to Govt., and Private Colleges for M.C.A Degree Course.**
- **Served as member of various selection committees constituted by Pondicherry Government, Pondicherry University, Puducherry State Health Mission for selection of Faculty members and other Staff.**
- **Served as a member in a committee constituted by Puducherry Government to select the best school for recommendation to the Dept. of Information Technology, Ministry of Communications and Information Technology, Government of India New Delhi for the award of 5th Computer Literacy Excellence Awards for Schools -2007 among Puducherry State Level.**

- Served as a Technical expert (appointed by Pondicherry University) in software purchase committee

12. Professional Certificates Obtained : IBM certified database associate for DB2

13. Membership of Professional Bodies: Indian Society for Technical Education (LM)

14. AICTE Projects Completed/ Ongoing :

1. Coordinator: AICTE sponsored RPS project on “Developing Product Line Architecture and Components for e-Governance Applications of Indian Context”
2. Co-coordinator: AICTE sponsored RPS project on “Development of a framework for designing WDM Optical Network”

15. Subjects (theory and Lab) Taught
in B.Tech,M.C.A and M.Tech courses

: Database Management Systems
Principles of Programming Languages
E-Commerce
Operating systems
Object Oriented Programming Languages
Computer Networks
Advances in Software Engineering
Software Engineering
Visual Programming
Design and Analysis of Algorithms
Software Architecture
Object Oriented Analysis and Design
Security Threats
Information Security Policies
Distributed Databases
Computer Graphics

16. Area of Specialization

: Software Engineering
Object Oriented Systems
Information and Network Security
Database Systems

LIST OF PUBLICATIONS

Journals/ News Letters /LNCS (International)

1. K.Vivekanandan and Rajasri, “Secure Mant Based Demand Routing Protocol and IDS”, is to be published in International **Journal ISSN:0974-4320,” Journal of Advanced Research and Computer Engineering”, 2(2) December 2008;pp 235-249.** (Galley Proof correction is enclosed)
2. K.Vivekanandan and S.Kuppuswami, ”Students Attitude towards Pair Programming in Short Duration Laboratory Exercises” **International Journal of Computer Science and System Analysis.** Vol. 1 Number 2 July-December 2007. pp. 141-148
3. K.Vivekanandan and V.Vijayan, “Product Line Architecture for E-Governance Applications of Indian Context.” **International Journal of Intelligent Information Processing.** Vol. 1. Nos. 1-2 (2007), pp 45-53

4. S. Kuppaswami and K. Vivekanandan, "The Effects of Pair Programming on Learning Efficiency in Small Programming Assignments", *Informatics in Education, An International Journal from Institution of Mathematics and Informatics, Vilnius*, Vol. 3, No. 2 , 2004, pp. 251-266.
5. S. Kuppaswami, K. Vivekanandan, Paul Rodrigues and Prakash Ramaswamy, "The Effects of Individual XP Practices on Software Development Effort", *ACM Software Engineering Notes*, Vol. 28, Issue 6, September 2003
6. S. Kuppaswami, K. Vivekanandan and Paul Rodrigues, "A Framework for Software Project Managers to Quantify the Cost Effectiveness of Extreme Programming Practices", *Delhi Business Review, An International Journal of Society for Human Transformation and Research*, Vol. 4, No.1, Jan-June 2003, pp 83-92.
7. S. Kuppaswami, K. Vivekanandan and Paul Rodrigues, "A System Dynamics Simulation Model to Find the Effects of XP on Cost of Change Curve", *Springer Verlag Lecture Notes on Computer Science, Volume: 2675 / 2003*, January 2003, pp 54-62. (Conference Proceedings of XP 2003)

Journals (National)

8. M.Kannan and K.Vivekanandan,"A Survey Attrition", ACCST Research Journal, Volume VII, No.4 October 2009. (Accepted and to be published).
9. G.Ragunath and K. Vivekanandan, "A flexible I/O Model for embedded Real Time Systems", *Design Review*, A Technical journal of Bharat Electronics, Central Research Laboratories, Vol. 3, No. 1, December 1991.

Conferences /Symposium (International)

10. K. Vivekanandan, and Prakash Ramaswamy, "Process Simulation Model to Compute the cost in Iterative Model", Proceeding of International Conference on International Conference on Global Software Development , 27 to 28 July 2007, Coimbatore, India
11. K. Vivekanandan and V. Vijayan, "Product Line Software Architecture For E-Governance Applications of Indian Context", Conference on E-Governance (Conflux 2005), New Delhi, October 17-19, 2005
12. S. Kuppaswami, K. Vivekanandan and J. Mahesh Kumar, "Influence of Extreme Programming Practices on Quality" Second International Conference on Technology, Knowledge and Society, Hyderabad, 12-15,December 2005.
13. K. Vivekanandan and G. Zayaraz , "An Agent based Web Enabled Intelligent Tutoring System for Engineering Education ", Accepted for presentation at International Conference on E-Learning (E-Learning 2005), PGP College of Engineering and Technology, Namakkal, October 25-26. 2006
14. K. Vivekanandan, Paul Rodrigues and Prakash Ramaswamy , "A Process Simulation Model to Find the Effects of Extreme Programming on Software Development Cost", Asian Software Process Engineering Conference 2003 (ASEPG 2003), August 1-2, 2003, Hyderabad, India
15. S. Kuppaswami and K. Vivekanandan, "A Cost Estimation Model for eXtreme Programming Projects", International Forum on COCOMO and Software Cost Modeling October, 22-25, 2002, Los Angeles, U.S.A. (extended abstract and presentation slides)
16. K. Vivekanandan and G. Zayaraz, "An Intelligent Prompt Agent for Intelligent Tutoring Systems", in the book titled, *Artificial Intelligence Future Trends*, Edited by Rajendra Akerkar , Allied Publishers Pvt. India, July 2002.
17. K. Vivekanandan, "A Frame Work for Virtual University and its Implementation Issues in India", Asia Pacific International Conference on Telecommunication and Information Technology, Vellore, 2001.

18. K. Vivekanandan and S. Kuppaswami, “ Computer Aided Instruction Databases using Object Oriented Approach”, International Conference on Educational Computing, March 19-21, 1996, Technical Teachers Training Institute, Chandigarh.

Conferences/ Symposium (National Level)

19. N.Sreenath & K.Vivekanandan, “Privatization of Engineering Colleges”, National Conference on “Contemporary Issues in Engineering Education” 30th July 2009, Puducherry (Abstract and presentation)
20. K.Vivekanandan & N.Sreenath, “Use of Video conferencing in Education”, National Conference on “Contemporary Issues in Engineering Education” 30th July 2009, Puducherry (Abstract and presentation)
21. M.Kannan and .K.Vivekanandan,” Measures in education institutions to prevent Attrition in Software Development Organizations”, National Conference on “Contemporary Issues in Engineering Education” 30th July 2009, Puducherry
22. Ramalingam and.K.Vivekanandan ,”An architecture for e-Governance for managing of technical institutions” National Conference on “Contemporary Issues in Engineering Education” 30th July 2009, Puducherry
23. Amirthasaravanan. A and K.Vivekanandan ,”RFID in Education Sector” National Conference on “Contemporary Issues in Engineering Education” 30th July 2009, Puducherry (Abstract and presentation). Selected as best paper of the session.
24. K.Vivekanandan, “Reusable Architecture for E-Governance Applications” ,National Conference on Digital Era Governance and Contemporary Issues in New Public Management”, Pondicherry, March , 26-28, 2007
25. G.Zayaraz, P.Thambiduarai, K.Vivekanandan and Kumar,” A Pattern Selection Framework for achieving Software Quality”, Proceedings of National Conference Product Development for Mechatronics System for global Quality, PMGQ 2005, May2-3,pp 221-235, Madurai
26. S. Kuppaswami and K. Vivekanandan, “Female Students’ Perspective on the Adoption of Pair Programming to Conduct Laboratory Experiments”, Proceedings of First Annual Conference on Women in Information Technology, August 28-29, 2002, Annamalai University, Annamalai Nagar, India.
27. K. Vivekanandan, “ROBASE: An Object Database Management System for Evolving Objects”, Proceedings of National Conference on Recent Advances in Information Technology, Kovilpatti, 2001.
28. K. Vivekanandan, M. Sugumaran and M. Ezhilarasan, “Computer Networks for Distance Technical Education”, Proceedings of ISTE national convention, Erode, 2000.
29. K. Vivekanandan, M. Sugumaran and M. Ezhilarasan, “Distributed Business Processing using Recent Software”, Proceeding of National conference on Microcomputers, Ahmedabad, 2000
30. K. Vivekanandan and M. Ezhilarasan, “PARAC++: A Parallel Object Oriented Language Translator”, Proceeding of National Conference on Recent Advances in Information Technology, Thirunelveli, 2000.

31. K. Vivekanandan and S. Kuppuswami," A New Object model for Personnel Information System in Distributed Environment", Proceedings of the National Conference on Object Technology", Pondicherry 1999
32. K. Vivekanandan, "New Object Model for Personnel Information System", Conference on Information Technology for Management Science Applications, July 27-28, 1999, Indian Institute of Science, Bangalore
33. K. Vivekanandan, "A simple Approach to Groupware Design", Conference on Information Technology for Management Science Applications , July 27-28, 1999, Indian Institute of Science, Bangalore
34. K. Nithiyanandam, and K. Vivekanandan, "MALIBNET: A way for sharing the resources of Library" (in Tamil), Proceedings of Tamil Science Congress, Pondicherry University, Pondicherry 1995 Pp. 209-306.