

Principal, Charotar Institute of Computer Application

Curriculum Vitae



1. Name DR. VIJAY DAMODAR PATHAK
2. Residential Vitthal Mandir, Radhakrishna's pole, Palace road, Baroda – 390 001. Ph.No. 2425133
3. Designation Principal, Charotar Institute of Computer Application
4. Office Address Charotar Institute of Computer Application
Education Campus – Changa
At & Po: Changa, Pin – 388 421
5. Date of Birth 26th December, 1944
6. Qualifications B. Sc. (Maths) 1st Class, M.S.U., Baroda, 1964
M. Sc. (Maths) 1st Class, M.S.U., Baroda, 1966
Ph. D. (Maths), S.P.U. , Vallabh Vidyanagar, 1981
7. Teaching Experience Total: 37 years

Positions held at M. S University of Baroda :
 - * Assistant Lecturer, Dept. of Mathematics, Aug., 67 to Dec. 71
 - * Lecturer, Dept. of Mathematics, Dec., 71 to Feb., 81
 - * Reader, Dept. of Applied Mathematics, Feb, 81 to Jan, 87
 - * **Professor**, Dept. of Applied Mathematics, Jan, 87 onward
- . Academic Administration
 - * **Head, Dept. of Applied Mathematics**, Nov., 97 to May 2000.
 - * **Pro Vice Chancellor**, M. S. University of Baroda, May, 2000 to March 2003.
- Contribution to teaching :
 - * Taught UG & PG level courses in wide range of topics like Analysis, Functional Analysis, Differential equations, Operation Research, Numerical Analysis , Engineering Mathematics, Modeling, Scientific Computing, Theoretical Computer Science, Computer Programming etc.
 - * Guided several M Sc. Dissertations.
8. Research experience
 - * Research Assistant at **T. I. F. R. Mumbai**, Aug., 66 to Aug., 67
 - * Worked for my Ph.D. in Functional Analysis (Isometrics & small bound Isomorphism of Function spaces) during 1978-81 at **University of California, Santa Barbara, USA** (Sep. 1978 – Sep. 1979) and S. P. University, V. V. Nagar.
 - * 11 Research papers published (See encloser-1).
 - * 1 Student completed Ph.D. in Industrial Mathematics
 - * 2 Students are currently working for Ph.D.
 - * Later started working on live Industrial Problems involving F. D. M. FEM & Optimization modeling. Worked on number of Collaborative Projects with several Industries like ONGC, Baroda, ISRO, Ahmedabad Jyoti Ltd., Baroda, ABB, Baroda and other local Industries in & around Baroda. (List attached – See encloser-2)
 - * Completed two major MODROB project sponsored by AICTE.
 - * Current Research Interests: Optimization (Nonlinear Programming & Applications to Industrial problems), Industrial Mathematics, Soft Computing.

10. Academic Distinction
- * Awarded **Indo-American Fellowship** for the year 1978-79 & worked at Univ. of California Santa Barbara, USA from Sep., 78 to Sep., 79 for Predoctoral Research work.
 - * Awarded a **Hari Om Ashram prize** for best research paper in Mathematics, published in 1982.
 - * Elected as a **Fellow of Gujarat Science Academy** during 2004-2005.
11. Participation in Conferences /
- * Delivered a talk in International Conference on Banach Algebra at **University of Warsaw, Poland** in 1985 and at **Southern Illinois University, Edwardsville, USA** in May, 1998.
 - * Attended a workshop in “Complex Analytic Techniques in Functional Analysis at **ICTP, Italy** in Feb, 1988.
 - * Organized a workshop on Industrial Mathematics in July 1993 and December 2003 at MSU in Collaboration with Department of Mathematics, IIT, Mumbai and “UGC Golden Jubilee National seminar on Examination reforms” at MSU in September, 2003.
 - * Delivered series of 6 lectures at Jammu University, Jammu in Jan. 2001 under UGC teachers exchange program.
 - * Delivered Invited talks in number of conferences / Seminars / Workshops at several places in India including IIT, Bombay, DRDO, Pune, University of Delhi, Jammu University etc.
12. Membership in Learned Societies Governing bodies etc
- * President of Gujarat Ganit Mandal for the year 1997.
 - * Life member of GGM, IMS, INSA, ISIAM.
 - * Worked as a member of Board of studies in Mathematics / Applied Mathematics at MSU, University of Delhi, SGU & Bhavnagar Uni. and Member of American Mathematical society.
 - * Member of P. G. Council of M. S. University from March, 1997 to March – 2003.
 - * President of Technology Teachers Forum during 1998-99.
 - * Member on Search panel for nominating Vice-Chancellor at S. G. Uni., Surat in 1998 and Gujarat University, Ahmedabad in 2000.

List of Publications:

Sr No	Title of the paper/book	Sr. No.	Journal	Page No.
1.	Isometries of $C^{(n)} [0,1]$	V.D.Pathak	Pacific Journal of Mathematics, vol. 94, No. 1 1981	211-222
2	Isometries of Spaces of Differentiable Functions.	M. Cambern V.D. Pathak	Math. Japonica 26, No. (1981)	256-260
3	Linear Isometries of spaces of Absolutely continuous functions.	V. D. Pathak	Can.j. math, vol. 34 No.2 1982	298-298
4	Isomorphisms of spaces of differentiable function.	M. Cambern V. D. Pathak	Revue Roumania De Math. pures & appl. TOM XXII, No. 7 1982	737-743
5	On closed ideals of $C^{(n)} [0,1]$	V. D. Pathak	M.S.University Journal, Vol. XXIX, No.3, Science Technology & Medicine, 1980	23 to 28

6	Characterization of $C^{(n)}$	V. D. Pathak M. H. Vasavada	Mathematics Today, Vol.1, July , 1983	51-54
7	Isometries between function spaces	K. Jarosz V. D. Pathak	Trans of Amer. Maths. soc. Vol. 305 No.2 Jan 1988	193-205
8	Isometries and small bound Isomorphism on function spaces	K. Jarosz V. D. Pathak	Function spaces, Lecturer Notes in Pure & Applied Maths., Marcel Dekker Inc., 1991	241-271
9	Parameter Estimation in Log data Analysis in oil Exploration,	V. D. Pathak M. N. Vyas	Proceeding of 2nd annual conference of ISIAM. ,Madras, Feb., 1994	-
10	User friendly Interface to Optimization software , MSUOPT,	Shilpa R. Gupta V. D. Pathak	Presented at the 60th Annual conference of IMS at Pune, 1994.	-
11	Optimization in Industries.	V. D. Pathak	Tech. Report No. 25 S.P. University, V.V.Nagar , 1996	11-20

List of Industrial projects completed:

1. FEM Analysis of flow in Turbine impeller - Collaborative Research Project with R&D centre, Jyoti Ltd.
2. Statistical and Optimization Package for Log Data Analysis - collaborative research Project, ONGC.
3. FEM Analysis of Electromagnetic field properties of Wavetrap- collaborative research Project, R & D , Asea Brown Broveri Ltd.
4. FDM Analysis of temperature distribution TEFC motors -Collaborative research Project, R & D, Asea Brown Broveri Ltd.
5. Optimization of Transformer Design -collaborative research Project, Power Control Equipment Pvt. Ltd.
6. Engineering Data base system for electric motors -Interactive collaborative Project, R & D, Asea Brown Broveri Ltd.
7. FFT Application for yarn testing equipment - Collaborative Project, Patwa Kinariwala Enterprises.
8. Time series analysis through Optimization- Interactive project, Physical research laboratory (PRL)
9. Design Optimization of TCXO for ISRO, Ahmedabad.