

Curriculum Vitae

Personal Information

1. Name **Miss FORAM A. SHELAT**
2. Date Of Birth 29/10/1984
3. Place of Birth Anand
4. Nationality Indian
5. Religion Hindu Brahmin
6. Sex Female
7. Permanent Address Foram A. Shelat
"Ashish", Patdi Chakla,
Umreth-388220.
Dist-Anand.
Gujarat,India
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Educational Qualification : M. Sc. in Physics, M. Phil., Ph.D. (Continue)

Exam Passed	Board/University	Subjects	Year of Passing	Division	Percentage of Marks Obtained
SSC	Gujarat Secondary Education Board	Mathematics, Science, English	1999	First Class with Distinction	89.71
HSC	Gujarat Secondary Education Board	Mathematics, Physics, Chemistry, Biology, English	2001	First Class with Distinction	74.00
B. Sc.	Gujarat University, Ahmedabad	Physics	2004	First Class	70.1
M. Sc.	Maharaja Sayajirao University of Baroda, Vadodara	Physics	2006	First Class	60.88
M.Phil.	Sardar Patel University, Vallabh Vidyanagar.	Physics	2007	Second Class	53.4
Ph. D.	Sardar Patel University, Vallabh Vidyanagar	Physics	Continue.	-	-

Additional Skills in Computers:

- Operating systems:** Windows Vista, Windows XP, Linux
Office packages: Microsoft Office 2007, OpenOffice .org 3.0, Latex
Programming Languages: Fortran, C, Visual basic 6.0, Mathematica 5.1,
Graphing tools: Origin 7.5, Sigmaplot

PROFESSIONAL QUALIFICATION:

General Field:	Theoretical Atomic and Molecular Physics
Nature of Research:	Theoretical - Computational - Calculations of Various Cross Sections of Atoms, Molecules and Clusters
Topic of M. Phil Dissertation:	“Observational Studies on Infrared Emissions from Be-type Stars”
Topic of Ph. D Work:	Electron impact atomic-molecular collision processes
Present Designation:	Lecturer, Department of Electronics and Communication, G H Patel College of Engineering and Technology, Vallabh Vidyanagar-388120
Professional Associations:	1) Life Member Physics Alumni Association, Dept. of Physics, S. P. University 2) Life member ISAMP (Indian Society for Atomic and Molecular Physics) 3) Life member IAPT (Indian Association of Physics Teachers) 4) Life member ISTE (Indian Society for Technical Education) 5) Life member (GCET Alumni Association)
Academic Foreign Visits:	Joint ICTP/IAEA Workshop on Atomic and Molecular Data for Fusion Trieste, Italy, April 20-30, 2009.

List of Papers Published in the National/International Journals (1):

- ‘Total electron scattering and ionization of N, N₂ and metastable excited N₂^{*}(A₃Σ_u⁺): Theoretical cross sections’
K.N. Joshipura, Sumona S. Gangopadhyay, Harshit N. Kothari, Foram A. Shelat
Physics Letters A **373** (2009) 2876–2881.

Presented Papers in National Conferences (3):

- ‘An Analysis Of Hydrogen Lines In Be Stars’, Topical Conference on Atomic, Molecular and Optical Physics held at Department of Physics, Sardar Patel University, Vallabh Vidyanagar during January 3-5, 2008.
- ‘Observation And Analysis of Hydrogen Recombination Lines In Be Stars’, Gujarat Science Congress held at Bhavnagar University, Bhavnagar on March 9, 2008.
- ‘Comprehensive calculations on total cross sections of electron impact on group VA atoms’, DAE-BRNS Symposium on Atomic, Molecular and Optical Physics held at Inter University Accelerator Center, New Delhi during February 10-13, 2009.

Accepted Papers in International Conferences (3):

- ‘**Comprehensive calculations on total cross sections of electron impact on group VA atoms**’, The 8th Asian International Seminar on Atomic, molecular Physics at the University of Western Australia, Perth, Australia during November 24-28,2009.
- ‘**Calculations on various total cross-sections of electron impact on group VA – Atoms-Threshold to 2000 eV**’, XXVI International Conference on Photonic, Electronic and Atomic Collisions, Kalamazoo, Michigan, during July 22 – 28, 2009.
- ‘**Analytical Born Cross-Sections in a Realistic Dipole Potential: Application to e-HCN Scattering**’, XVI International Symposium on electron-molecule Collisions and Swarms, Toronto, Canada during July 29- August 1, 2009.

Conferences/Symposiums/Seminars/Workshops/Congresses Attended:

Sr. No.	Name	Place	Year
1	Summer School	Physical Research Laboratory, Ahmedabad, Gujarat, India	May 16 to July 15, 2005.
2	National workshop on Material Characterization	M. S. University, Vadodara	February 20-22, 2006.
3	“Microwave-2007” –a conference on microwave and its applications	Gujarat University, Ahmedabad	January 21, 2007.
4	IAPT Regional Seminar on Physics Education and research	Department of Physics, Sardar Patel University, Vallabh Vidyanagar, Gujarat	2007
5	Topical Conference on atomic and molecular physics 2008	Department of Physics, Sardar Patel University, Vallabh Vidyanagar, Gujarat	January 3-5,2008
6	Gujarat Science Academy	Department of Physics, Sardar Patel University, Vallabh Vidyanagar, Gujarat	February 17, 2008
7	XXII th Gujarat Science Congress 2008	Bhavnagar University, Gujarat	March 9, 2008
8	DAE-BRNS Symposium on Atomic, Molecular and Optical Physics	Inter University Accelerator Center, New Delhi	February 10-13, 2009.

9	Gujarat Science Congress-2009	Veer Narmad Daxin Gujarat University, Surat	February 15,2009.
10	Joint ICTP/IAEA Workshop on Atomic and Molecular Data for Fusion	Abdus Salam International Centre for Theoretical Physics (ICTP),Trieste, Italy	20 - 30 April 2009