




Shivaji College Faculty Details Proforma

Title		First Name		Last Name		Photograph
Ms.		Abha		Vasal		
Designation	Assistant Professor					
Address	Department of Computer Science, Shivaji College					
Office Phone No.						
Residence						
Mobile						
Email	abha@shivaji.du.ac.in					
Web-Page						
Educational Qualifications						
Degree	University/Institute				Year	
Ph.D.						
M.Phil./M.Tech.	Madurai Kamaraj University				2008	
PG	Kurukshetra University				2002	
UG	Delhi University				1999	
Any Other Qualification	Post Graduate Diploma in Data Science IIITB & UPGRAD				2022	
Career Profile						
I have been working as an Assistant Professor in University of Delhi since 2002						
<ul style="list-style-type: none"> • July 2011 till date working at Shivaji College University of Delhi • July 2002- January 2011- worked as Assistant Professor at Bhaskaracharya College of Applied Sciences, University of Delhi 						
Administrative Assignments						
<ul style="list-style-type: none"> • Worked actively in Staff council constituted committees like Placement Cell, E-learning Cell, Women's Development Cell, Cultural committee, Magazine Committee, Website committee, SPACE Committee, Ranking Committee • Contributed in organising Departmental activities like talks, Festival , workshop, talks, webinar • Worked in College NAAC committee • Worked as resource person for Inspire science camp 						
Areas of Interest/Specialisation						
Programming languages Python, C++, Database Management System, Data Analysis and Visualization						

Subjects Taught

Introduction to Programming, Introduction to Database Systems, Artificial Intelligence, Programming Paradigms, Programming with Python, Data Analysis and Visualization using Python

Innovation Project/Research Projects (Major Grants/Research Collaboration)

Innovation Projects undertaken

- 1) Real Time Traffic Solution (SHC 206) funded by University of Delhi. The projects aimed at providing a real time traffic density-controlled algorithm to monitor the traffic lights in an optimum way. The objective is to reduce the waiting time at the traffic lights.
- 2) Real time Android Application for Travel Convenience (SHC-309), funded by University of Delhi. Developed an application **Usher**, which is an integrated solution to overcome all the travelling problems encountered in daily life. This application reads the user's location thus providing sufficient parking details. The user is also provided with other utilities like fuel pumps and garages which could prove to be very useful while travelling long distances.

Publications Profile (Research Papers/Books)

- 1) Bhatia M.P.S, Vasal A., Localisation and Requirements Engineering In Indian Scenario, 15th IEEE Requirements Engineering conference, 393-394, 2007
- 2) Vasal A, Kalra S., Social Media Research: Collaborate and Innovate, International Conference on Excellence in Management Practices (ICEMP) 2011,23-24
- 3) Vasal A. Kumar A., *Issues, Challenges in Handling Localisation in E-Governance: A Review*, International Workshop Cum Seminar on "Role of Science And Technology For Sustainable Development With Focus on Make In India, Volume-4, ISBN No. 978-81-931794-8-2. Published under Indo Norwegian collaboration project, IGNTU Central university Amarkantak (M.P.) and University of Agder Norway, 2016
- 4) Coauthored paper titled „Usher: Android Application for Travel Convenience in Delhi NCR“ , Proceedings of the 11thINDIACom;INDIACom-2017; IEEE Conference ID: 40353, 4th International Conference on "Computing for Sustainable Global Development", 01st - 03rdMarch, 2017 Bharatiya Vidyapeeth's Institute of Computer Applications and Management, 4574-4578, ISSN 0973-7529; ISBN 978-93-80544-24-3, 2017

Chapters in Books

1. Contributed chapter titled "I FIGHT: Building homes away from home", Page No.s: 46-55 in book-Anujivami-"I Survive", published by Pinnacle Learning, New Delhi, India. ISBN: 978-93-83848-02-7, under the aegis of Women's Development Cell, Shivaji College.
2. **Senior editor** of book Udayan: A New Beginning.
3. Saxena P., Vasal A.,(2017),„Meri Udaan: The Force Behind my Wings“, *Udayan : A New Beginning* and *Nayi Disha : A New Direction*“ published by Women's Development Cell, Shivaji College, ISBN 978-81-86845-22-4.
4. Vasal A., Saxena P., (2017) *NayiDisha : A New Direction*“ , *Udayan : A New Beginning* published by Women's Development Cell, Shivaji College, ISBN 978-81-86845-22-4.

- 5.. Arora R, Vasal A., (2018), Breaking the Stereotypes, *The Change Makers*, ISBN 978-93-83848-43-0, Delhi, Pinnacle Learning.
Vasal A., Arora R., (2018), Recasting Nancy Drew, *The Change Makers*, ISBN 978-93-83848-43-0, Delhi, Pinnacle Learning.

Conference/Seminar/Faculty Development Programme/Workshop

- 1.Participated in One-month online Faculty Induction Programme (21 February - 19 March, 2024) organised by TLC Ramanujan College under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) scheme.
- 2.Attended International Conference on ‘Resurgent Bharat on the Global Canvas’, organized by Shaikshik Foundation in collaboration with NCPSL & Shivaji College, University of Delhi, on 25-26 February, 2024.
- 3.Participated in two week (Online) Training Programme on “NEP 2020 Orientation & Sensitization Programme” organized by Mahatma Hansraj Malaviya Mission Teacher Training Centre (MHMMTTC), Hansraj College, University of Delhi on 15-30 December, 2023.
- 4.Attended Third Lecture Workshop on “Women in Science”, organized by Science Foundation, Deen Dayal Upadhyaya College on 6th September 2017.
- 5.Participated 2nd International Workshop on BIG DATA ANALYTICS, March 17-18 2017, organized by School of Computer and Systems Sciences, JNU.
6. Presented paper at 11thINDIACom 2017, 4th International Conference on “Computing for Sustainable Global Development”, March 1-3, 2017 Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi.
- 7.Attended National Seminar on New Frontiers in Computer Science Research, September 28, 2013, organized by Maharaja Surajmal Institute affiliated to GGS Indraprastha University.
- 8.Presented poster for innovation projectSHC-309, at Research Display at Convocation Ceremony, University of Delhi on November 19, 2016.
- 9.Presented Research Display at 94th Foundation Day of University of Delhi, May 1, 2016.
10. Participated in First WDC International Conference on Empowerment of Women in Developing World organized by WDC Shivaji College, April 1-2, 2013.

Completed online courses to enhance my skill set

- NPTEL Python for Data Science, Jan -Feb 2021
- IBM Data Science Specialization, Coursera, Dec 2019
- HarvardX- PH125.1x: Data Science: R Basics, Edx, Oct 2019
- HarvardX- PH125.2x: Data Science: Visualization, Edx, Oct 2019

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

Awards and Distinctions

1. Received Teachers Excellence Award for Innovation from University of Delhi on 1st May 2015.
2. Worked as co-investigator with principal investigator Dr. Surbhi Madan and Mr Pankaj Das, of University of Delhi Innovation Project **Real Time Traffic Solution** (SHC 206). The project received award for Best Display and Best Innovative idea at Antardhvani 2015.
3. Received certificate of Appreciation for Presentation of Research Display of innovation Project Real Time Android Application for Travel Convenience at 94th Foundation Day, University of Delhi, May 1, 2016 and Convocation Ceremony held on November 19, 2016.
4. Volunteer Section Leader, Code in Place, Stanford University
Member of the teaching team for Code in Place, April - May 2021. This online course was offered as a community service by Stanford University during the COVID-19 pandemic. It brought together students and volunteer teachers participating from around the world. The course is a 6-week introduction to Python programming using materials from the Stanford's CS106A course. As a volunteer section leader, I prepared and taught a weekly discussion section of 8-10 students

Memberships

Other Academic Activities

- Worked as resource person for DST sponsored Inspire science camp.
- Course Coordinator for Add on Course in R, Spoken Tutorial, IIT Bombay conducted by E-learning Cell.
- Resource person for MS Teams training for faculty and students during COVID -19.
- Organising secretary of One Week Online Faculty Development Programme on "ICT Enhanced Teaching Learning and Creating MOOCs", August 18-25, 2020, organised by Teaching Learning Centre, Ramanujan College, University and IQAC, Shivaji College.
- Shivaji College, Course Administrator, for Coursera for Campus Response Initiative. It provided free access to over 3,600 online courses from leading universities and companies. More than 300 students and faculty members had registered for this programme.

Cultural/Extracurricular Activities

- Organised Technical events like Play with SQL, Codecracker -online coding event on Codechef platform, Dark Coding during Departmental Festival.
- Organised two day inter college True Hacking workshop in 2014.
- Have contributed exercises for Inspire science camp and worked as a resource person.
- Worked actively in the Cultural Committee -organising Fest , Society events and SpicMacay. Worked with Student committee handling their requirements. Worked in WDC -organising sensitization programmes, talks, panel discussion, International Conference Gender Fair. Contributed as Senior Editor in WDC Publication 2017.
- Worked in Annual Day and Alumni Committees

Abha

Signature of Faculty Member