

Resume

Dr. Chhama Awasthi

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Objective

Seeking a position where my knowledge can be shared and enriched. I would like to have an opportunity to contribute to the growth of the organization and work for, which I'm sure, will, in turn, contribute to my personal growth.

Personal Information

Name :	Dr. Chhama Awasthi
Date of birth :	17 DEC 1985
Nationality :	Indian
Gender :	Female
Marital status :	Married
Mailing Address:	118/425 B, Ground floor, Kaushalpuri Gumti No.5, Pin- 208012.
Category :	General

Academic Qualification

- ❖ **Ph.D. (Mathematics)** from Dr. APJ Abdul Kalam Technical University, Uttar Pradesh, Lucknow (Formerly Uttar Pradesh Technical University), under the **TEQIP** fellowship, in year 2021.
- ❖ **M. Phil (Mathematics)** from C. S. J. M. University, Kanpur in year 2010 with 80%.
- ❖ **M. Sc. (Mathematics)** from D.A.V.P.G. College, Kanpur in year 2007 with 66%.
- ❖ **B. Sc. (Mathematics, Physics)** from D.B.S.P.G. College, Kanpur in year 2005 with 59.4%.
- ❖ **Intermediate (PCM)** from M.G. Inter College, Kanpur in year 2002 with 56.4%. [U.P Board]
- ❖ **High School** from Kanpur Kanya Inter College, Kanpur in 2000 with 54%. [U.P Board]

Teaching Experience (Approx. 9 years)

Designation	Institution/University	Period
Lecturer	U.I.E.T, C.S.J.M. University, Kanpur	31Aug. 2010- June 2011 (Approx. one year)
Lecturer	Krishna Institute of Technology, Kanpur	July 2011 - Oct.2014 (Approx. 3.5 years)
Lecturer (Under TEQIP Fellowship)	HBTU, Kanpur	Dec.2015 - Oct. 2018 (Approx. 3 years)
Guest Lecturer	HBTU, Kanpur	Sep.2021 – Nov. 2022.
Guest Lecturer	HBTU, Kanpur	Jan. 2025 – till now

Subjects Taught

- 1) B. Tech. : Engg. Mathematics – I
- 2) B.Tech. : Engg. Mathematics – II
- 3) B.Tech. : Engg. Mathematics – III
- 4) B. Tech. : Computer Oriented numerical methods (CONM)
- 5) B.Tech., MBA : Operations Research
- 6) M.Sc : Numerical Optimization

Title of the Ph.D. Thesis

“**Mathematical Modeling of Blood Flow Problems through Stenosed blood vessels.**” Under the supervision of **Prof. S.U. Siddiqui, H.B.T.U., Kanpur.**

Research specialization:

Mathematics (Biomechanics), Biomathematics, Fluid mechanics.

Scholarship awarded

TEQIP-II fellowship awarded from SPFU (World Bank) during Ph.D.

Research Experience

9 Years, since 2015, as a Research scholar, Department of Mathematics, HBTU, Kanpur.

Research Publications

Research Paper- International (Published)

1. Awasthi, C., Siddiqui, S.U., “Mathematical Modelling of pulsatile Herschel Bulkley fluid flow through an Inclined Stenosed artery with Body acceleration & Slip.” *International Journal of Mathematical Archive* Vol-8, no. 7 (2017): 205-215. **(UGC referred journal)**
2. Awasthi, C., Siddiqui, S.U., Geeta. “Mathematical Modeling of blood flow through mild stenosed artery under the influence of Magnetic field.” *International Journal of Mathematics Trends and Technology* Vol- 49, no. 4, (2017): 236-242. **(UGC referred journal)**
3. Awasthi, C., Siddiqui, S.U., “Mathematical Analysis on Pulsatile flow through a Catheterized Stenosed Artery.” *Journal of Applied Mathematics and Physics* Vol-5, (2017):1874-1886. **(Refereed journal)**
4. Awasthi, C., “A Comparative Study of Unsteady Flow of Non-Newtonian Fluids Through an Inclined Stenosed Artery” *International Journal of Mathematical Archive* Vol-12, no. 7 (2021): 10-21. **(UGC referred journal)**
5. Awasthi, C., Siddiqui, S.U., “Analysis on Rheology of Unsteady Casson Fluid Flow through an Atherosclerotic Lesion.” *Contemporary Mathematics* Vol- 4, no. 1, (2023): 17-29.
DOI: <https://doi.org/10.37256/cm.4120232078> **(SCOPUS)**
6. Awasthi, C., Siddiqui, S.U., “Pulsatile Bingham Plastic Fluid Flow through an Inclined Asymmetric Stenosed Artery.” *International Journal of Science and Social Science Research*, Vol-1, no.1, (2023): 1-12. **(Refereed journal)**

Abstracts published in Conferences

1. Awasthi, C., “Effect of Catheter on Unsteady Fluid Flow through an Inclined Stenosed Artery.” 86th Annual Conference of Indian Mathematical Society, Dept. of Mathematics, SAS, VIT-Vellore, (IMS-2020).
2. Awasthi, C., Siddiqui, S.U., “Biorheological Analysis on an Unsteady Herschel Bulkley Fluid flow through Stenosed Artery.” The 3rd International Conference on Frontiers in Industrial and Applied Mathematics (FIAM-2020).

3. Awasthi, C., “Unsteady Flow of Bingham Plastic fluid through an Inclined Asymmetric Stenosed Artery.” International Conference on Mathematical Modelling and Computational Intelligence Techniques (ICMMCIT - 2021).

M.Phil. Dissertation

M. Phil. Dissertation in “**Eigenvalues and colorings of digraphs**” under the supervision of **Prof. Medha S. Dhande, U.I.E. T, C. S. J. M. University.**

Organizer of Workshop/ Webinar/ Short term Program

- ❖ Organized three days online Workshop on “Python Programming for Data Science”, by the Department of Mathematics, School of Basic & Applied Sciences, Harcourt Butler Technical University, Kanpur, from 20-22 October, 2021.
- ❖ Organized four days online Short-Term Training Program on “Data Analysis with Python Libraries”, by the Department of Mathematics, School of Basic & Applied Sciences, Harcourt Butler Technical University, Kanpur, on 25th -26thOct, and 29th -30thOct, 2021.
- ❖ Organized one day online National Workshop on “R- Programming for Statistical Analysis”, by the Department of Mathematics, School of Basic & Applied Sciences, Harcourt Butler Technical University, Kanpur, from 8-10 November, 2021.
- ❖ Organized one day online National Workshop on “Gender Sensitization & Prevention of Sexual Harassment at Workplace”, by the Department of Mathematics, School of Basic & Applied Sciences, Harcourt Butler Technical University, Kanpur, on 12 November, 2021.
- ❖ Organized one day online Webinar on “The Contributions of Srinivasa Ramanujan to Mathematics”, by the Department of Mathematics, School of Basic & Applied Sciences, Harcourt Butler Technical University, Kanpur, on 22 December, 2021.

Conferences/Workshop Attended:

1. Attended a one-week Faculty Development Programme on “Challenges and Recent Trends in Mathematical Modelling and Scientific Computing” held at H.B.T.U, Kanpur between December 18-22, 2023.
2. Attended one day online Webinar on “The Contributions of Srinivasa Ramanujan to Mathematics”, by the Department of Mathematics, School of Basic & Applied Sciences, Harcourt Butler Technical University, Kanpur, on 22 December, 2021.

3. Attended one day online National Workshop on “Gender Sensitization & Prevention of Sexual Harassment at Workplace”, by the Department of Mathematics, School of Basic & Applied Sciences, Harcourt Butler Technical University, Kanpur, on 12 November, 2021.
4. Attended one day online National Workshop on “R- Programming for Statistical Analysis”, by the Department of Mathematics, School of Basic & Applied Sciences, Harcourt Butler Technical University, Kanpur, from 8-10 November, 2021.
5. Attended four days online Short-Term Training Program on “Data Analysis with Python Libraries”, by the Department of Mathematics, School of Basic & Applied Sciences, Harcourt Butler Technical University, Kanpur, on 25th -26thOct, and 29th -30thOct, 2021.
6. Attended three days online workshop for “Python Programming for Data Science”, organized by the Department of Mathematics, School of Basic & Applied Sciences, Harcourt Butler Technical University, Kanpur, from 20-22 October, 2021.
7. Attended the “7th International Conference on Mathematics and Computing, ICMC-2021.” organized by the Department of Information Technology, Indian Institute of Engineering Science and Technology, Shibpur, India from 02-05 March 2021.
8. Attended the International Conference on “Mathematical Modelling and Computational Intelligence Techniques, ICMMCIT-2021 ” organized by the Department of Mathematics, GRI, Gandhi gram, Tamilnadu, India from 10-12 February 2021.
9. Attended the “International Conference on Physical Sciences, ICPS-2021” organized by the Department of Applied Sci. and Humanities, Physics, and Chemistry, Surat, India from 5-6 February 2021.
10. Attended the International Conference on “Frontiers in Industrial and Applied Mathematics, FIAM-2020” organized by the Department of Mathematics, NIT Jamshedpur, India from 21-22 December 2020.
11. Attended the International meet on “86th Annual conference of the Indian Mathematical society, IMS-2020” organized by the Department of Mathematics, School of Applied Sciences, VIT, Vellore, India from 17-20 December 2020.
12. Attended the International Conference on “Mathematical Analysis and Applications, MAA- 2020” organized by the Department of Mathematics, NIT Jamshedpur, India from 02-04 November 2020.
13. Attended the International Conference on the “Differential equation and Numerical Analysis, ADENA-2020” organized by the Department of Mathematics, IIT Guwahati, India from 12-15 October 2020.
14. Attended a Faculty Development Programme on “Mathematical modeling and research methodology” held at H.B.T.U, Kanpur between October 8-12, 2018.
15. Attended a workshop training program on “TEQIP workshop on modeling, simulation and implementation using MATLAB and Simulink” held at IIT-Kanpur between February 01-02, 2017.

16. Attended a training program on “Reverse Engineering & Rapid Prototyping” held at H.B.T.U, Kanpur between January 05-07, 2017.
17. Attended a short-term training program on “Research Methodology” held at U.P Textile Technology Institute, Kanpur between September 05 – 09, 2016.
18. Attended a Faculty Development Programme on “Advance Algorithms in Computing” held at H.B.T.I, Kanpur between January 25 - 30, 2016.

Paper Presentation

- ❖ Oral paper presentation entitled “Effect of Catheter on Unsteady Fluid Flow through an Inclined Stenosed Artery” on the international conference on “86th Annual conference of the Indian Mathematical Society” organized by the Department of Mathematics, School of Applied Sciences, VIT, Vellore, India from 17-20 December 2020.
- ❖ Oral paper presentation entitled “Biorheological Analysis on an Unsteady Herschel Bulkley Fluid flow through Stenosed Artery” on the International Conference on “Frontiers in Industrial and Applied Mathematics, FIAM- 2020” organized by the Department of Mathematics, NIT Jamshedpur, India from 21-22 December 2020.
- ❖ Oral paper presentation entitled “Unsteady Flow of Bingham Plastic fluid through an Inclined Asymmetric Stenosed Artery” on the International Conference on “Mathematical Modelling and Computational Intelligence Techniques, ICMMCIT-2021” organized by the Department of Mathematics, GRI, Gandhi gram, Tamilnadu, India from 10-12 February 2021.

Date:

Place: Kanpur

(Dr. Chhama Awasthi)