

Curriculum Vitae

Dr. Meenu Chawla

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Presently: Working in J.C. Bose University of science and Technology, YMCA, Faridabad, Haryana from 13 Oct., 2021 till now.

Profession Experience:

- 1) **Employer:** Lingayas Vidyapeeth, Faridabad, Haryana
Position: Assistant Prof. (Nov. 17, 2020 – Oct. 12, 2021) 10 months, 25 days.
- 2) **Employer:** Echelon Institute of Technology Faridabad,
Position: Assistant Prof. (Oct. 13, 2016 – Nov. 16, 2020) 4 years, 1 month, 4 days.
- 3) **Employer:** Manav Rachna College of Engineering (MRCE), Faridabad,
Position: Mathematics Lecturer (July 14, 2008 – August 2, 2011) 3 years.

Research Work: My thesis entitled “Mathematical modeling of microfluidic, nanofluidic and fluid flows using tribology”.

Papers/Publications:

1. **Meenu Chawla** and Rashmi Bhardwaj “Study of the slip velocity effect on performance of magnetic fluid flow”. Published in *Indian Journal of Industrial and Applied Mathematics*, vol.4 (2), pp.108-117.
2. **Meenu Chawla** and Rashmi Bhardwaj “Surface roughness and Slip velocity effect on magnetic lubricated porous pivoted slider bearings” published in *Indian Journal of Industrial and Applied Mathematics*, vol.5 (2), pp. 87-95.
3. **Meenu Chawla** and Rashmi Bhardwaj (2016) “Surface roughness effect on couple stress fluid lubricated porous pivoted slider bearings” published in *Journal of Information & Optimization Sciences*. 37 (1), 13-22.(Taylor and Francis).
4. **Rashmi Bhardwaj and Meenu Chawla (2017)** “Surface roughness effect on dynamics of carbon nanotube” published in *Indian Journal of Industrial and Applied Mathematics*, vol.8 (1), pp. 24-33.

5. **Rashmi Bhardwaj and Meenu Chawla (2018)** “Convection dynamics of Fe₃O₄ nanoparticles in blood fluid flow” published in *Indian Journal of Industrial and Applied Mathematics*, vol.9 (1), pp. 1-14.
6. **Rashmi Bhardwaj and Meenu Chawla (2019)** “Effect of magnetic and temperature variation on Al₂O₃ nanofluid convection” accepted in *Mathematica Applicanda*.
7. **Rashmi Bhardwaj and Meenu Chawla (2020)** “Convection Dynamics of SiO₂ Nanofluid” published in *Numerical optimization in Engineering and Sciences conference, Advances in Intelligent Systems and Computing, proceedings of Springer* , 979, pp.389-397.

Papers presented

- **Presented** a paper entitled “**Slip velocity effect on magnetic fluid flow**” in ‘11th Biennial Conference, **Indian Society of Industrial and Applied Mathematics**’ 15-16 Dec.2012 held at Gautam Buddha University, Greater Noida,U.P.
- **Chawla, M. and Bhardwaj, R.**(2016) “Nonlinear dynamic behaviour of nanofluid under temperature variation” oral **presented** in International conference on the Occasion of Silver Jubilee of Indian Society of Industrial and Applied Mathematics (ISIAM),2016 held at **Sharda University**, Noida NCR, India.
- **Presented** a paper entitled “ Convection dynamics of SiO₂ nanofluid” in Numerical Optimization in Engineering and Sciences (NOIEAS) ,19-21 June 2019 held at National Institute of Technology Warangal (Department of Mathematics).
- **Presented** a paper entitled “ Convection dynamics of Nanofluids for temperature and magnetic field variations” in International conference on Innovative computing and Communication (ICICC-2020) , 21-23 Feb. 2020 held at Shaheed Sukhdev college of Bussiness Studies, University of Delhi (Department of Computer).

Academic Qualifications:

Graduation, Post-graduation and Doctorate:

S.No.	Degree	Year	Specialization	University	Division
1.	Ph.D.	2016	Applied Mathematics	Guru Gobind Singh Indraprastha University, Delhi	Mathematical modeling of microfluidic, nanofluidic and fluid flows using tribology

2.	B.Ed.	2008	Maths & Science	Maharishi Dayanand University, Rohtak	1 st with 74%
3.	M.Sc.	2007	Mathematics	Jamia Millia Islamia University, New Delhi	1 st with 81%
4.	B.Sc.	2005	Non-Medical	Maharishi Dayanand University, Rohtak.	1 st

Pre-graduation:

S.No.	Exam	Year	Specialization	Board	Division
1.	12 th	2002	Non-Medical	C.B.S.E.	1 st
2.	10 th	2000	NA	C.B.S.E.	1 st

Awards/Fellowships:

- University Research Fellowship IPRF (Guru Gobind Singh Indraprastha University) (F.No. GGSIPU/DRC/Ph.D./Adm./IPRF/2011/652.Felloship JRF,IPRF (1.9.2011-31.8.2013) & SRF, IPRF (1.9.2013- 31.8.15)
- Successfully completed the Final registration requirements (viz. To undergo several compulsory course work)
- Cleared RAT Exam (for Ph.D. admission) conducted by Guru Gobind Singh Indraprastha University.
- Stood Second Topper in M.Sc. got “The Certificate of Merit- 2007”.
- Stood Topper in Chemistry in B.Sc.II.
- Participate in college level Chemistry Quiz & stood 1st

Technical Knowledge:

- Packages: MS-Office, MATLAB
- Languages: C, C++.

Conference/Seminar/Workshop/FDP Attended:

- Attended the “Faculty development Programme for Academic Excellence” sponsored by AICTE in Manav Rachna College of Engineering in 2008.
- International Conference on “Recent Trends in Mathematics and its Application 09” held at Jamia Millia Islamia University in New Delhi in 2009.

- International Conference of **54th Congress of Indian Society of Theoretical and Applied mechanics (ISTAM)** organized by the Netaji Subhas Institute of Technology in New Delhi in 2009.
- International Conference & Exhibition on “**Nanotechnology and Solar Photovoltaics**” held at the Manav Rachna International University in Faridabad in 2010.
- Presented Paper entitled “**Chain Preserving Map and Hausdorff Spaces**” in National Conference on “**Application of Mathematics in Science & Technology**” held at Lingaya's University in Faridabad in 2010.
- Participated in Two Weeks **AICTE** approved Program on ‘**Introduction to MALAB and Matrox Imaginary Library (MIL) with Emphasis on hands on practice (WMMIL’11)**’, 16-29 Dec. 2011 Organized by School of Electronics & Communication Engineering, Shri Mata Vaishno Devi University, Katra, Jammu.
- Attended one week short term ‘**QIP course on Advanced Tribology**’, 13-17th Feb. 2012 organised by Mechanical Department, **IIT Delhi**.
- Participated in Seminar-Cum-Workshop on ‘**Mathematics & Computing (SWMC-12)**’, 22 March 2012 organised by Department of Applied Mathematics, **Delhi Technological University**, Delhi.
- Participated in training session on Web of Science, 18th April 2012 held at University Information Resource Centre, **Guru Gobind Singh Indraprastha University**, New Delhi.
- Participated in training session on Science Direct, 30th April 2012 held at University Information Resource Centre, **Guru Gobind Singh Indraprastha University**, New Delhi.
- Participated in training session on SCI-FINDER on 12th June 2012 held at University Information Resource Centre, **Guru Gobind Singh Indraprastha University**, New Delhi.
- **Presented** a paper entitled “**Slip velocity effect on magnetic fluid flow**” in ‘11th Biennial Conference, **Indian Society of Industrial and Applied Mathematics**’ 15-16 Dec. 2012 held at Gautam Buddha University, Greater Noida, U.P.
- Participated in a one day workshop on ‘**Mathematics & Its Application**’, 18 Oct. 2012 organised by Department of Mathematics, **Jamia Millia Islamia University**, New Delhi.

- Participated in ‘**Science Academies Lecture, Workshop on Nanoscience and Nanotechnology**’, 01-02 March 2013 organized by Department of Chemistry, **Jamia Millia Islamia University**, New Delhi.
- Participated in Publishing connect workshop conducted by Elsevier in association with **Guru Gobind Singh Indraprastha University**, New Delhi on 11th Sept.2013.
- Participated as organizing member in the ‘**DST-Inspire Science Camp-2013**’ organized by Kirori Mal College, **University of Delhi and DST**, Govt. of India held from 21st to 25th December 2013.
- **Organized One** day Seminar on “**M³ -Mathematical Modeling with Mathematica**” at Department of Mathematics. University School of Basic and Applied Sciences, **Guru Gobind Singh Indraprastha University**, New Delhi on 20th March 2014.
- **Organized Two** days Seminar on “**Application of Computer Software in Mathematical Modeling**” at Department of Mathematics, University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University New Delhi in Collaboration with **MHRD, Govt. of India** on 16-17th May 2014.
- Participated in Symposium on “**Recent Trends in Mathematical Biology**” organized by School of Computational and Integrative Sciences, **Jawaharlal Nehru University**, New Delhi on 16th April, 2015.
- Participated in Course on “**Quantum Transport in Carbon-Based Devices**” organized by IEEE-Electron Devices Society (EDS)-Delhi Chapter and Society for Microelectronics and VLSI held at **University of Delhi**, south campus, New Delhi, India on 8th January 2016.
- Attended one week short term course on “Emerging Trends in data science and its application” held at YMCA university , Faridabad from 11-15th November 2019.

Personal Information:

Date of Birth	:	Dec 24th, 1985
Marital Status	:	Married
Father’s Name	:	Mr. D.L. Chawla
Sex	:	Female

Nationality : Indian.

I hereby, declare that the information provided by me is true to the best of my knowledge.

Place: Faridabad

MEENU CHAWLA

Date: 22/4/2022