Dr. RESHMA MALAN

DESIGNATION RESEARCH INTEREST	Assistant Professor in Mathematics Mathematical Modelling through porous media and simulation	5
EXPERIENCE	16 Years	0
CONTACT INFORMATION	Room No B-202, Admin Block, Government Engineering College, Near Sanskar Kendra, College Road, Valsad-396001 E mail: rrmalan@gecv.ac.in	
APPOINTMENT:		

Government Engineering College, Valsad Assistant Professor in Mathematics.

EDUCATION:

Ph. D in Mathematics Gujarat Technological University, Ahmedabad

B. Ed. Veer Narmad South Gujarat University, Surat, Gujarat

M.Sc. in Mathematics Veer Narmad South Gujarat University, Surat, Gujarat

B.Sc. in Mathematics Veer Narmad South Gujarat University, Surat, Gujarat

SKILLS AND KNOWLEDGE:

• Maple, Mathematica, MATLAB, LaTeX

2009-Present

March-2024

April-2006

March-2005

April-2003

TRAINING / WORKSHOP /CONFERENCE ATTENDED:

Trainings/Workshops/FDPs

Online course on "LaTeX101x: LaTeX for Students, Engineers and Scientists, IIT Bombay.	24/09/2019 to 02/12/2019
STTP on "Mathematical Modelling and Simulation for Researchers, Engineers and Scientists", SVNIT, SURAT.	23/12/2019 to 27/12/2019
National level FDP on "Mathematical Aspects of Fluid Dynamics" SVIT, Vasad.	06/07/2020 to 11/07/2020
 National Level Workshop on "LaTex", SVIT, Vasad. 	27/07/2020 to 01/08/2020
STTP on Computational Software MATLAB & MATHEMATICA, SVNIT, Surat.	05/10/2020 to 09/10/2020
NPTEL-AICTE FDP on "Groundwater hydrology and Management" (12 weeks course).	Jan-Apr 2022
Workshop on Finite Element Method: Theory, Computation, and Application (FEMTCA 2023) National Institute of Technology, Tiruchirappalli. (1-week training).	04/12/2023 to 08/12/2023
Internation workshop on Virtual Element Analysis: Scientific Computational and Applications, Vellore Institute of Technology, Vellore, India.	10/01/2024 to 12/01/2024
Conferences	
Presented a poster in "National Conference on Recent Advances in Material Science-202", organized by the M. S. University, Vadodara.	23/11/2018 -24/11/2018

- Presented a poster in XXXIII Gujarat Science Congress-2019, "Teaching and Communicating Science: Improving the Landscape of Educational for Future Wellbeing", Ahmedabad
- Presented a paper in "International Conference on Integrated Interdisciplinary Innovations in Engineering" Organized by Panjab University, Chandigarh.
- Attended the "International Conference on "Advances in Differential Equations and Numerical Analysis" Organized by IIT, Guwahati.
- Presented a paper in "2nd International Conference on Mathematical Modelling and Simulation in Physical Sciences" Organized by SVNIT, Surat.
- Presented a paper in "1st International Conference on "Advances in Water Treatment and Management Organized by PDEU, Gandhinagar.
- Presented a paper in "10th International Conference on Mathematical Modelling, Simulation and Computational methods"

PROFESSIONAL MEMBERSHIPS:

Life Member, Indian Society for a Technical Education

PORTFOLIOS:

- ➢ GTU Team Member, GEC, Valsad.
- House Keeping Member, GEC, Valsad
- ▶ Fit India Youth Club Member, GEC, Valsad
- > Sports Committee Member, GEC, Valsad
- > Women Development Cell member, GEC, Valsad
- ➢ G20 Committee Member, GEC, Valsad

02/05/2019 - 03/05/2019

28/08/2020 to 30/08/2020

12/10/2020 to 15/10/2020

05/02/2022-06/02/2022

25/03/2022-26/02/2022

11/12/2023-13/12/2023

2015-Present 2018-Present 2020-Present 2020-Present 2021-Present 2022-Present

- Departmental Gem committee member
- Newsletter committee member
- Departmental Furniture Maintenance

PUBLICATION (PAPERS/BOOKS):

- Reshma R. Malan and Narendrasinh B. Desai, Two-dimensional mathematical modelling with continuously dumped pollutants in aquifer, *Mathematics in Engineering, Science and Aerospace*, 14(2), (2023), 527–551 (SCOPUS Indexed Journal).
- Reshma R. Malan and Narendrasinh B. Desai, Contaminant transportation modelling with time dependent dispersion, *Computational Methods for Differential Equations*, 11(3), (2023), 605–614 (Web of Science Journal).
- Reshma R. Malan and Narendrasinh B. Desai, An analytic solution of the one-dimensional solute transport equation for uniform unsteady flow in a homogeneous medium, *Advances and Applications in Mathematical Sciences*, 22(1), (2022), 25–42 (UGC Approved Journal).
- Reshma R. Malan and Narendrasinh B. Desai, Study of groundwater pollution: Non-uniform unsteady flow, CRC Press-2024 (Book Chapter). (In Press)

PROJECT GUIDED:

Applied for a Startup-WeStart for the grant under 'Westart -2021'

Applied for a Toy Innovation Challenge to develop a Toy under 'M2M -2020'

SUBJECT TAUGHT:

Mathematics I (3110014) Mathematics II (3110015) Complex Variables and Partial Differential Equations (313005, 3140610) Applied Mathematics for Electrical Engineering (3130908)