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Visiting Research Scholar/ Adjunct Instructor

Department of Mathematics,
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Academic Qualifications

Ph.D, Applied Mathematics (2012), *School of Mathematics, Beijing Institute of Technology, Beijing, China.*

Thesis dissertation on, "**Geometric Description of Stochastic Systems and Linear Systems**".
M.Phil, Mathematics (2007), *Institute of Mathematics and Computer Sciences, University of Sindh, Jamshoro, Pakistan.*

Thesis dissertation on, "**Numerical Simulation of Reverse Roll Coating Flows for Viscoelastic Fluids with Free Surfaces**".

Post Graduate Diploma Computer Science (July 1998- Dec 1998). *University Grants Commission, Islamabad, Pakistan*

M.Sc. Mathematics (1992), *Institute of Mathematics and Computer Sciences, University of Sindh, Jamshoro, Pakistan.*

B.Sc. (Hons.) Mathematics (1991), *Institute of Mathematics and Computer Sciences, University of Sindh, Jamshoro, Pakistan.*

ACADEMIC EXPERIENCES

Visiting Researcher (July 2007-Oct 2007), *Computational Fluid Dynamics Group, School of Computer Science, Swansea University, UK.*

"**Studies on Contraction Flows and Pressure-Drops-Extensional Viscosity and Dissipative Stress Effects**", H.R. Tamaddon-Jahromi, **F.S Syed**, and M. F. Webster. CSR 9-2008 www.swan.ac.uk/compsci/research/reports/2008/index.html

Professor (April' 2014 – present)

Associate Professor (April' 2013 – April' 2014)

Department of Basic Sciences, Mehran University of Engineering and Technology, Jamshoro, Pakistan.

Teaching and Research

- Supervising / co-supervising M.Phil and Ph.D students of this University.
- Teaching various subjects of Engineering Mathematics and Computer Programming to undergraduate and Post Graduate students of this university.
- Teaching the subjects, Computational Fluid Dynamics, Advanced Linear Algebra, Finite Element Analysis, Modelling & Simulation to the M.Phil students of Applied Mathematics.
- Teaching the subjects, Modelling & Scientific Computing, Research Methodology, Advances in Partial Differential Equation, Theory & Application of Transforms, Advanced Numerical Analysis and non-Newtonian Fluid Mechanics to the PhD students of Applied Mathematics.

Assistant Professor (July'2004 - April' 2013)

Lecturer (Aug'1993 - July'2004)

Department of Basic Sciences, Mehran University of Engineering and Technology, Jamshoro, Pakistan.

Courses taught during this period include Applied Calculus, Linear Algebra, Analytical Geometry, Differential Equations, Laplace Transforms, Complex Variables, Numerical Analysis with Computer Applications, Fourier Series, Statistical Methods and Estimation, FORTRAN Programming, and C ++ programming.

Administrative and Other Experience

1. Director, (October 2019 to November 2022), Postgraduate Studies, MUET, Jamshoro.
2. Co-Director, (February 2017 to October 2019), Postgraduate Studies, MUET, Jamshoro.
3. Program coordinator, (January 2014 to February 2017), Postgraduate Program, Applied Mathematics, MUET Jamshoro.
4. Member, Syndicate, Mehran University of Engineering and Technology, Jamshoro. (Aug 2003 to July 2004)
5. Member, Senate, Mehran University of Engineering and Technology, Jamshoro.
6. Member, Board of Studies, Department of Basic Sciences, Mehran University of Engineering and Technology, Jamshoro.
7. Member, Board of Studies, Department of Mathematics and Statistics, Quid-e-Awam University of Engineering, Sciences and Technology, Nawabshah.
8. Member, Board of Studies, Department of Statistics, University of Sindh, Jamshoro.
9. Member, Board of Studies, Institute of Mathematics and Computer Science, University of Sindh, Jamshoro.
10. Member/Secretary, Advance Studies & Research Board, Mehran University of Engineering and Technology, Jamshoro. (2017-2022)

Computer and Programming Skills

- Computer programming in FORTRAN 90/95, C++, MatLab and Python
- Working experience with Mesh Generation Software's,
- CFD solver Ansys Fluent 14
- Working experience with Windows NT/2000/XP, LINUX and Microsoft office.

Research Interest

- Data Analysis
- Newtonian And Non-Newtonian Fluid Mechanics
- Numerical Analysis
- Blood Flow Problems
- Mathematical Modelling

Supervision / Co-Supervision (M.Phil. / M. S / M.E / Ph.D.)

Ph.D Students: **(Produced)**

1. **Kamran Nazir Memon**, “*The Hydrodynamics of Gravity-Driven Vessel Drainage of Non-Newtonian Liquids*” Applied Mathematics, Directorate of Post Graduate Studies, Mehran University of Engineering and Technology, Jamshoro
2. **Rafique Ahmed Daudpota**, “*Response Surface Modeling for Rotating Biological Contractor Simulator for Treatment of Wastewater*” Department of Statistics, University of Sindh , Jamshoro
3. **Khalil Ahmed Memon**, “*Influence of Cryogenic LN2 on Petro physical and Morphological Characteristics of Shale Gas Reservoirs: An Experimental and Simulation Approach.*” Petroleum Engineering, Institute of Petroleum & Natural Gas, Mehran University of Engineering and Technology, Jamshoro.
4. **Wajid Ali Shaikh**, “*Hybrid Model Of Discrete Wavelet Transform And Group Method Of Data Handling For Forecasting River Flow Time Series Data*” Applied Mathematics, Directorate of Post Graduate Studies, Mehran University of Engineering and Technology, Jamshoro.
5. **Shoaib Ahmed Khatri**, “*Modeling of Renewable Energy Penetration In Energy Mix of Pakistan*” Energy System Engineering, Directorate of Post Graduate Studies, Mehran University of Engineering and Technology, Jamshoro.
6. **Fozia Shaikh** “*Effective Solution Of Recti Linear Flow Of Non Newtonian Pseudo plastic Fluids Through Circular Pipe Using Recursive Approach*”, Applied Mathematics, Directorate of Post Graduate Studies, Mehran University of Engineering and Technology, Jamshoro
7. **Afaque Ahmed** “*Modeling and Numerical Analysis of Vortex Driven Flow Instability in Solid Fuel Combustion Chamber*” Applied Mathematics, Directorate of Post Graduate Studies, Mehran University of Engineering and Technology, Jamshoro

8. **Rano Khan Wassan**, “*Development of Integrated Green, Lean and Six Sigma Model and Framework for Pakistani SMEs*” Industrial Engineering and Management, Directorate of Post Graduate Studies, Mehran University of Engineering and Technology, Jamshoro
9. **Prem Kumar** “*Projections of Hydrological Drought under Climate Change Scenario in Tharparkar, Pakistan*” Applied Mathematics, Directorate of Post Graduate Studies, Mehran University of Engineering and Technology, Jamshoro

(In Progress)

1. **Waris Metla** “*Modelling and Simulation of transient melting/solidification process of pcm in enhanced structures with natural convection driven flow*” Applied Mathematics, Directorate of Post Graduate Studies, Mehran University of Engineering and Technology, Jamshoro.
2. **Muhammad Suleman** “*Multilevel Deflation-Based Solution of Wave Equation Using Higher Order Discretization with Applications in Geophysics*” Applied Mathematics, Directorate of Post Graduate Studies, Mehran University of Engineering and Technology, Jamshoro.

M.Phil. Students:

S#	NAME	TOPIC	COMPLETION
01	Mr. Muhammad Ibrahim 19S-M.Phil-A-Maths-29	Effects of Heat Transfer on the Flow of Co-rotational Maxwell Fluid in Helical Screw Rheometer	2023
02	Mr. Muneer Ahmed 21S-M.Phil-A-Maths-08	Effect of Slip Condition on Unsteady Tank Drainage Flow of Third Order Fluid	2023
03	Mr. Sanjay Kumar 19S-M.Phil-A-Maths-09	Numerical Investigation of Boundary Layer Flow of MHD Nanofluids Over Stretching and Shrinking Surfaces	2023
04	Mr. Azam Ali 21S-M.Phil-Maths-12	The Hydrodynamics of Gravity Driven Vessel Drainage of Drainage of Third Order Fluid Using Perturbation Technique	2023
05	Ms. Khadija 20S-M.Phil-A-Maths-08	Analysis Solution for the Unsteady Oscillating Flow of Fractional Oldroyd-B Fluid Between Coaxial Cylinders	2023
06	Mr. Syed Asad Raza Shah 20S-M.Phil-A-Maths-12	Delta Perturbation Method on Lift and Drainage for Thin Film Flow of a Third Grade Fluid	2023
07	Ms. Ruquia Hameed 19S-M.Phil-A-Maths-11	Analysis of Spatial Autocorrelation of Malaria Infection In Divisions of Sindh Pakistan	2022
08	Ms. Habiba Khan 19S-M.Phil-A-Maths-21	Principal Component Analysis: Development of Educational Index Equation for Secondary Schools	2022
09	Mr. M. Wajid Anjum 18S-M.Phil-A-Maths-28	An Effective Approach of Four Step Method for Optimal Solution of Transportation Problem	2022

10	Ms. Sabeen Sahito 20S-M.Phil-A-Maths-11	Modification of Vogel's Approximation Method for Optimality of Transportation Problem Using Statistical Technique.	2022
11	Mr. Taimoor 17S-M.Phil-A-Maths-05	An Accelerated Hybrid Euler's Method for Numerical Integration of Ordinary Differential Equation	2021
12	Mr. Naresh Kumar 15F-M.Phil-A-Maths-10	Option Pricing in Illiquid Financial Market Through Reduced Differential Transform Algorithm	2021
13	Ms. Um-E-Tayyba 16S-M.Phil-A-Maths-08	Analysis of Level of Financial Literacy Among the Undergraduate Students	2021
14	Mr. Adnan Mustafa 16S-M.Phil-A-Maths-18	Multi Dimensional Poverty Indices at Nausharofez Case Study	2021
15	Ms. Soni Roopani 18S-M.Phil-A-Maths-28	Effect of Intertia on Newtonian Fluid in Squeezed Flim by Recursive Approach	2021
16	Ms. Nimra Arain 18S-M.Phil-A-Maths-10	Projection and Analysis of Meteorological Drought under Climate Change Scenarios in Tharparkar, Sindh, Pakistan	2020
17	Mr. Taimoor 18S-M.Phil-A-Maths-27	Analytic Study of Steady MHD Flow of Double-Layer Optical Fiber in A Porous Medium With Heat Transfer	2020
18	Mr. Imran Ali Rajper 16S-M.Phil-A-Maths-14	Development of A New Algorithm for Optimal Solution of Transportation Problems	2020
19	Ms. Aisha Akber 18S-M.Phil-A-Maths-06	Comprehensive Drought Analysis Using Statistical and Metallurgical Indices Approach: Case Study of Badin Sindh	2020
20	Ms. Sasui 16S-M.Phil-A-Maths-04	Analytic Solution of lift and Drainage for Thin Flim flow for PTT Fluid Model With Variable Viscosity	2019
21	Mr. Sadam Hussain Mughal 15F-M.Phil-A-Maths-06	Suitable Space Locating Method for Solving non-Linear Equations by Using Numerical Differentiation	2018
22	Ms. Ramsha 15F-M.Phil-A-Maths-03	Development Of New Technique In Simplex Method To Solve Degeneracy In Linear Programming	2018
24	Ms. Aliya 16S-M.Phil-A-Maths-17	Modification of Heun's Iterative Method for the Population Growth Rate Problems	2018
25	Mr. Rashid Hussain 14-M.Phil-A-Maths-01	Effect Of Slip Condition For Thin Film Flow On Avertical Cylinder For Electricity Conducting Power Law Fluid	2017
26	Ms. Hira Soomro 15S-M.Phil-A-Maths-04	Development Of Mcdm Model For Selection Of Biomass Energy Technologies In Sindh	2017
27	Mr. Saleem Raza 11-ME-MN-04	Empirical Study of Muscular Skeletal Disorders (MSDS), Case Study of Lakhra Coal Mines	2017
28	Mr. Ali Asghar Snagah 14-M.Phil-A-Maths-03	Algorithm to Improve the Convergence of Bracketing Methods for Nonlinear Equation in Single Variable	2016

1. *Up-gradation and Strengthening Research Lab of Modeling & Simulation at Department of Basic Sciences & Related Studies (BSRS), Mehran University of Engineering & Technology, Jamshoro.*, funded by Higher Education Commission, Pakistan Under Institutional Strengthening Program (No. 11-11(2015)/HEC/Acad/IS/518 dated: December 30, 2015) (**Principal Investigator**).
2. Research Project, titled “*Assessment & Forecasting of Drought in Tharparker, Sindh*” Under National Research Programme for Universities, by Higher Education Commission, Islamabad vide letter **No:6872/Sindh/NRPU/R&D/HEC/201 6 (Principal Investigator)**.

Publications

INTERNATIONAL

1. Kumar, S., Shaikh, A. A., **Shah, S. F.**, Lanjwani, H. B., Anwar, M. I., & Shehzad, S. A. (2023). Numerical investigation of magnetized thermally radiative Fe₃O₄-Water base nanofluid. *Chemical Physics Letters*, 824, 140571. (**IF = 2.8, X-Category**)
2. Wassan, R. K., Shaikh, S. A., Marri, H. B., Memon, M. S., & **Shah, S. F.** (2023). Analyzing the impact of GLSS implementation over sustainability in Pakistani SMEs. *Benchmarking: An International Journal*. (**IF = 3.1, W- Category**)
3. Khatri, S.A., Mirjat, N.H., Harijan, K., Uqaili, M.A., **Shah, S.F.**, Shaikh, P.H. and Kumar, L., (2022). An Overview of the Current Energy Situation of Pakistan and the Way Forward Towards Green Energy Implementation. *Energies*, 16(1), pp.1-29. (**IF = 3.252, W- Category**)
4. Shaikh, F., **Shah, S.F.**, Siddiqui, A.M. and Kumar, L., (2022). Application of recursive approach of pseudoplastic fluid flow between rotating coaxial cylinders. *Alexandria Engineering Journal*, 61(10), pp.7823-7832. (**IF = 6.626, W- Category**)
5. Soomro, H., **Shah, S.F.**, Sahito, W.S., Uqaili, M.A., Kumar, L., Nixon, J.D. and Harijan, K., (2022). Assessment of Sustainable Biomass Energy Technologies in Pakistan Using the Analytical Hierarchy Process. *Sustainability*, 14(18), p.11388. (**IF = 3.889, W-Category**)
6. Bhutto, A.A., Harijan, K., Hussain, M., **Shah, S.F.** and Kumar, L., (2022). Numerical Simulation of Transient Combustion and the Acoustic Environment of Obstacle Vortex-Driven Flow. *Energies*, 15(16), p.6079. (**IF = 3.252, W- Category**)
7. Shah, S.A.R., Memon, K.N., **Shah, S.F.**, Sheikh, A.H. and Siddiqui, A.M., (2022). Delta perturbation method for thin film flow of a third grade fluid on a vertical moving belt. *Statistics, Computing And Interdisciplinary Research*, 4(1), pp.61-73. (**Y-Category**)

8. Khatri, S.A., Harijan, K., Uqaili, M.A., **Shah, S.F.**, Mirjat, N.H. and Kumar, L., (2022). A Logistic Modelling Analysis for Wind Energy Potential Assessment and Forecasting its Diffusion in Pakistan. *Frontiers in Energy Research*, 10. (**IF = 3.858, W-Category**)
9. Khatri, S.A., Harijan, K., Uqaili, M.A., **Shah, S.F.**, Mirjat, N.H. and Kumar, L., (2022). Solar photovoltaic potential and diffusion assessment for Pakistan. *Energy Science & Engineering*. (**IF = 4.035,)**
10. Shaikh, W.A., **Shah, S.F.**, Pandhiani, S.M., Solangi, M.A., Farooq, M., Ahmad, H., Kashuri, A., Jarasthitikulchai, N. and Sudsutad, W., (2022). A hybrid forecasting model based on the group method of data handling and wavelet decomposition for monthly rivers streamflow data sets. *Open Physics*, 20(1), pp.1096-1111. (**IF = 1.361, W-Category**)
11. Shaikh, W.A., **Shah, S.F.**, Pandhiani, S.M. and Solangi, M.A., (2022). Wavelet Decomposition Impacts on Traditional Forecasting Time Series Models. *CMES-Computer Modeling in Engineering & Sciences*, 130(3), pp.1517-1532. (**IF = 2.027, X-Category**)
12. Ali, W., Shaikh, A.A., Shah, F. and Hussain, S., (2022). Melting characteristics of a phase change material mixed with nano particles of cobalt oxide bounded in a trapezoidal structure. *Computer Modeling in Engineering and Sciences*.
13. Wassan, R. K., Shaikh, S. A., Shaikh, I. K., Memon, M. S., Rahman, A., & Shah, S. F. H. (2022). Initial Screening Of Critical Success Factors For Green, Lean And Six Sigma Implementation In Pakistani Small And Medium Enterprises. *Journal of Applied Engineering Science*, 20(3), 946-956. (**X-Category (2022-2023)**)
14. Ali, A., Memon, K. N., Shah, S. F., Amur, M., & Siddiqui, A. M. (2022). The Hydrodynamics of Gravity-Driven Vessel Drainage of Third Order Fluid using Perturbation Method.
15. Kumar, P., **Shah, S.F.**, Uqaili, M.A., Kumar, L. and Zafar, R.F., (2021). Forecasting of Drought: A Case Study of Water-Stressed Region of Pakistan. *Atmosphere*, 12(10), p.1248. (**IF = 3.110, W-Category**)
16. Memon, K.R., Muther, T., Abbasi, G.R., Tunio, A.H., **Shah, F.**, Mahesar, A.A., Mohanty, U.S. and Nasir, U., (2021). Analysis of Mancos Shale gas production scenarios under various stress mechanisms. *Arabian Journal of Geosciences*, 14(18), pp.1-11. (**IF = 1.827, X-Category**)
17. Jatoi, A.S., Baloch, H.A., Mazari, S.A., Mubarak, N.M., Sabzoi, N., Aziz, S., Soomro, S.A., Abro, R. and **Shah, S.F.**, (2021). A review on extractive fermentation via ion exchange adsorption resins opportunities, challenges, and future prospects. *Biomass Conversion and Biorefinery*, pp.1-12. (**IF = 4.103, X-Category**)
18. Alam, M.K., Memon, K.N., Siddiqui, A.M., **Shah, S.F.**, Farooq, M., Ayaz, M., Nofal, T.A. and Ahmad, H., (2021). Modeling and analysis of high shear viscoelastic Ellis thin liquid film phenomena. *Physica Scripta*, 96(5), p.055201. (**IF = 3.081**)

19. Maher, A. M., Memon, Z. A., Shaikh, P. H., Shah, S. F., & Rajput, S. H. (2021). Dc-dc Dc-dc Non-isolated Immense gain converter simulation in MATLAB: converter simulation in MATLAB. *International Journal of Electrical Engineering & Emerging Technology*, 4(SI 1), 37-41.
20. Yusuf, A., Qureshi, S., & **Shah, S. F.** (2020). Mathematical analysis for an autonomous financial dynamical system via classical and modern fractional operators. ***Chaos, Solitons & Fractals***, 132, 109552. (**IF = 3.764**)
21. Qureshi, S. S., Sahito, A. R., Jhadav, A., Nizamuddin, S., **Shah, S. F.**, & Mubarak, N. M. (2020). Process optimization and empirical model development for lignocellulosic biomass via gravimetric analysis. *Biomass Conversion and Biorefinery*, 10(2), 447-461. (**IF = 2.602**)
22. Akber, A., Shah, S. F., Ijaz, M. W., Soomro, H., Alam, N., & Ahmed, L. (2019). Comprehensive Drought Analysis Using Statistical and Meteorological Indices Approach: A Case Study of Badin, Sindh. *International Journal of Environment and Climate Change*, 9(10), 594-604.
23. Perhiyar, M. A., Shah, S. F., & Shaikh, A. A. (2019). Modified Trapezoidal Rule Based Different Averages for Numerical Integration. *Mathematical Theory and Modeling*, 9(9), 72-75.
24. Mahessar, A. A., Qureshi, A. L., Laghari, A. N., Qureshi, S., Shah, S. F., & Shaikh, F. A. (2018). Impact of Hairdin, Miro Khan and Shahdad Kot Drainage on Hamal Dhand, Sindh. *Engineering, Technology & Applied Science Research*, 8(6).
25. Memon, K. N., Siddiqui, A. M., & Shah, S. F. (2017). Exact Solution of Tank Drainage through the Circular Pipe for Couple Stress Fluid. *J. Appl. Environ. Biol. Sci*, 7(12), 27-34.
26. Ali, A., Rundong, L., Shah, F., Mahar, R. B., WajidIjaz, M., & Muhammad, M. (2016). Predictive modeling of biogas production from anaerobic digestion of mixed kitchen waste at mesophilic temperature. *Int J Waste Resour*, 6(3), 2-4.
27. Salman Ahmed, Baozeng Yue, **Syed Feroz Shah** (2013)“Hamiltonian Structure and Stability Analysis for a Partially Filled Container”, *Journal of Mechanics*, Volume 29, Issue 01, March 2013 PP 79-83
28. Khaskheli, M. A., Memon, K. N., Sheikh, A. H., Siddiqui, A. M., & **Shah, S. F.** (2020). Tank Drainage for an Electrically Conducting Newtonian Fluid with the use of the Bessel Function. *Engineering, Technology & Applied Science Research*, 10(2), 5377-5381. (**Y-Category HEC Recognized**)
29. Shah, S. M., Memon, K. N., **Shah, S. F.**, Sheikh, A. H., Ghoto, A. A., & Siddiqui, A. M. (2019). Exact Solution for PTT Fluid on a Vertical Moving Belt for Lift with Slip Condition. *Indian Journal of Science and Technology*, 12, 30. (**X-Category HEC Recognized 2018**)

30. Memon, K. N., **Shah, S. F.**, & Siddiqui, A. M. (2018). Exact solution of unsteady tank drainage for Ellis Fluid. *Journal of Applied Fluid Mechanics*, 11(6), 1629-1636. (**X-Category HEC Recognized**)
31. **Feroz Shah Syed**, Didong Li, Xun Zhang, ZhenhongGu “Mathematical Modeling in Criminology”, *Malaysian Journal of Mathematical Sciences* 7(1) 125-145 (2013) (**Y-Category HEC Recognized**)
32. Memon, K. N., Khan, S. A., Islam, S., Zafar, N. A., **Shah, S. F.**, & Siddiqui, A. M. (2014). Unsteady Drainage of Electrically Conducting Power Law Fluid. *Applied Mathematics & Information Sciences*, 8(5), 2287.
33. Nawaz, Z., Khan, J. R., Saleemi, A. R., & **Shah, F.** (2009). Mathematical Modelling for Magnetite (Crude) Removal from Primary Heat Transfer Loop by Ion-Exchange Resins. *Bulletin of the Chemical Society of Ethiopia*, 23(1), 129-133. (**Y-Category HEC Recognized**)
34. Qureshi Khalid., Kumar P., Memon, K. N., **Shah, S. F.** (2021). ‘Numerical Iterative Method of Open Methods with Converge Cubically for Estimating Nonlinear Application Equations’. ‘*Journal of Mechanics of Continua and Mathematical Sciences (JMCMs)*, 16(6).

NATIONAL

35. Dayo, I., Shah, S. F., Shaikh, F., & Kumar, S. (2023). Effects of Heat Transfer on Flow of MHD Maxwell Nanofluid on Stretching and Shrinking Surfaces. *VFAST Transactions on Mathematics*. 11(1), 180–194. <https://doi.org/10.21015/vtm.v11i1.1498>
36. Bhutto, A. A., **Shah, S. F.**, Khokhar, R. B., Harijan, K., & Hussain, M. (2023). To Investigate Obstacle Configuration Effect on Vortex Driven Combustion Instability. *VFAST Transactions on Mathematics*, 11(1), 67–82. <https://doi.org/10.21015/vtm.v11i1.1411>
37. Kumar, S., Shaikh, A. A., Lanjwani, H. B., & Shah, S. F. (2023). MHD flow and heat transfer of micropolar nanofluid on a linearly stretching/shrinking porous surface. *VFAST Transactions on Mathematics*, 11(1), 141–154. <https://doi.org/10.21015/vtm.v11i1.1456>
38. Kumar, P., **Shah, S. F.**, Khokhar, R. B., Uqaili, M. A., Kumar, L., & Zafar, R. F. (2023). Meteorological drought mitigation for combating climate change: a case study of southern Sindh, Pakistan. *Mehran University Research Journal of Engineering & Technology*, 42(3), 129-153.
39. Bhutto, A. A., Hussain, M., **Shah, S. F.**, & Harijan, K. (2022). Computation of Vortex Driven Flow Instability through Unsteady RANS and Scale Resolving Simulation. *Institute of Space Technology*, 12(1), 14-22.

40. Ali, W., Shaikh, A. A., **Shah, F.**, & Hussain, S. (2022). The melting behavior of Paraffin RT-50 in a finned cylindrical surface. *VFAST Transactions on Mathematics*, 10(2), 175–188. <https://doi.org/10.21015/vtm.v10i2.1320>
41. Mahar, M. A., Memon, K. N., Shah, S. F., Amur, A. A., & Siddiqui, A. M. (2022). Effect of Slip Condition on Unsteady Tank Drainage Flow of third Order Fluid. *VFAST Transactions on Mathematics*, 10(2), 189–200. <https://doi.org/10.21015/vtm.v10i2.1338>
42. Sahito, S., Shaikh, W.A., Shaikh, A.G., Shaikh, A.A. and **Shah, S.F.**, 2021. Modification of Vogel's Approximation Method for Optimality of Transportation Problem by Statistical Technique. *Quaid-E-Awam University Research Journal of Engineering, Science & Technology, Nawabshah.*, 19(2), pp.42-48.
43. Daudpoto, M. R., Talpur, M. G. H., **Shah, F.**, & Khooharo, A. (2021). A Residual Analysis for the Removal of Biological Oxygen Demand through Rotating Biological Contactor. *Mehran University Research Journal of Engineering and Technology*, 40(2), 459-464
44. Shaikh, W., Shah, S., Solangi, M., & Pandhiani, S. (2019). Forecasting analysis of GMDH model with LSSVM and MARS models for hydrological data sets (Case study). *Indian J Sci Technol*, 12, 1-6.
45. Sahito, M. A., **Shah, F.**, & Shaikh, A. A. (2018). Scrutiny of Academic Performance of Students using Eigenvalue and Eigenvectors: A case study. *University of Sindh Journal of Information and Communication Technology*, 2(3), 139-142.
46. Daudpoto, M., Talpur, M., Shah, F., & Khooharo, A. (2018). Response Surface Methodology for removal of Biological Oxygen Demand (BOD) through RBC. *Sindh University Research Journal-SURJ (Science Series)*, 50(4), 591-594.
47. Memon, K. N., Siddiqui, A. M., Shah, S. F., & Islam, S. (2018). Analytical solution of tank drainage for electrically conducting power law fluid.
48. H. Pirzada, A. A. Shaikh, and **F. Shah**, “Modification of Heun’s Iterative Method for the Population Growth Rate Problems,” *University of Sindh Journal of Information and Communication Technology*, vol. 2, no. 1, pp. 11–16, Jan. 2018.
49. Shaikh, A. A., Chandio, M. S., Qureshi, S., & Shah, S. F. (2017). Computational Analysis of A Non-Newtonian Fluid Past Obstacles of Altered Shapes. *PJCIS (2017)*, Vol. 2 No. 1: 51-57
50. S.H. Sandilo, Ah Sheikh, Ar Soomro, **S. F. Shah.**, *On the Energetics of a Damped Beam-Like Equation for Different Boundary Conditions*. *Mehran University Research Journal of Engineering and Technology*, 2017. **36**(2): p. 395-400.
51. Feroz Ahmed Soomro, Qiang Zhang, **Syed Feroz Shah**, “ Two-Dimensional Stagnation-Point Velocity-Slip Flow and Heat Transfer over Porous Stretching Sheet”, *Mehran University Research Journal of Engineering & Technology*, 32(04) 615-622 (2016)

52. Solangi, R., Shah, S. F., Siddiqui, A., & Memon, K. (2016). Effect of slip condition on thin layer flow on an upright cylinder for drainage of electrically conducting power law fluid. *Sindh University Research Journal-SURJ (Science Series)*, 48(4).
53. Soomro, H., Shah, S. F., Nixon, J. D., Harijanc, K., & Mirjatd, N. H. (2016). Development of AHP Model for Ranking of Cook Stove Technologies for Sindh Province, Pakistan.
54. Jatoi, A. S., Aziz, S., Mahar, H., Shah, S. F., Hussain, S., Unar, I., & Shahzad, K. (2016). Numerical Simulation of ethanol production from molasses using thermos tolerant *kluyeromyces Marxian's*. *Journal of the Pakistan Institute of Chemical Engineers*, 44(1), 92-99.
55. Jatoi, A. S., Parkash, A., Aziz, S., Soomro, S. A., & Shah, S. F. (2016). Mathematical modeling for ethanol production from molasses using thermotolerant *kluyeromyces marxians*. *Science International*, 28(1), 319-322.
56. Saeed Sarwar, Saeed ur Rehman, **Syed Feroz Shah** "Mathematical Modeling of Unmanned Aerial Vehicles" *Mehran University Research Journal of Engineering & Technology*, 32(04) 615-622 (2013)
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