Annexure-23

Faculty Profile a brief Write up with Maximum 150-200 words

Faculty	Dr Doreswamy H S
	Professor & HOD
	East Point College of Engineering &Technology

	Profile*
	Doreswamy H S holds a Ph.D Degree in Mathematics with the area of specialization in Fluid Dynamics from Bharathiar University Coimbatore, M.Phil in Mathematics from Alagappa University Pondicherry and M.Sc in Mathematics from Mysore University. His Area of Interest and Research is Computational Fluid Dynamics, Linear Algebra and Regression Analysis. He is currently working at East Point College of Engineering and technology, Bangalore. A dedicated, passionate Professor with more than 37 years of teaching experience in Academic and Administrative roles. He published more than 23 papers in National and International peer reviewed and refereed Journals, and presented more than a 8 papers in National & International Conference. He regularly attends workshops/seminars as IITs..s. He has guiding candidates for M. Phil & PhD degrees. He has Successfully completed 20 NPTEL Certificates, 14 Coursera Certificates and 4 ATAL Certificates He is a life member of IAENG(No.327175). He is a reviewer and editor of International SCI indexed journals.

	Publications
	Journals

1. Application of Variational Homotopy perturbation method for Newell-whitehead- Segel equation, H S Doreswamy, Gayathri V & Gowthami R, EPGI Journal, Aug-2023
2. Solving the Diffusion Equations by Laplace Transform of Homotopy Perturbation Method, H S Doreswamy & Gayathri V EPGI Journal, 2022
3. Solution of the homogeneous and non-homogeneous diffusion-convection problem by Laplace transform of homotopy perturbation method, ICMTA-2023 (Communicated for Possible Publication in International Journal
4. Application of variational homotopy perturbation method for Schrodinger equation, IJSRST, Vol. 8,Issue 2, 2021, pp 79-84
5. Combined effect of surface roughness and micropolar fluids on squeeze film characteristicsbetween rough flat plate and curved annular plates, Malaya journal of Matematik, Vol.8, Issue 2,2020, pp 570-575
6. Analysis of statistics and dynamic characteristics of secant slider bearing with MHD and couple stressfluid, Malaya journal of Matematik, Vol.8, Issue 2,2020, pp 581-587
7. Effects of thermal modulation and rotation in a porous medium saturated by a dielectric fluid on theonset of magneto electroconvection, BOMSR Vol,6,2018
8. Solution of the Homogeneous and non-homogeneous Diffusion heat equation by Variational Homotopy Perturbation Method, IJLTEMAS, Volume 7, Issue II, Feb 2018, pp 88-90.
9. Effects of thermal modulation and rotation in a porous medium saturated by a dielectric fluid on theonset of magneto electroconvection, BOMSR, Vol,6,2018
10. Solution of the Homogeneous and non-homogeneous Diffusion heat equation by Variational Homotopy Perturbation Method, IJLTEMAS, Volume 7, Issue II, Feb 2018, pp 88-90
11. Solution of the linear and nonlinear Diffusion equation by Homotopy perturbation method, Bulletin of mathematics and statistics research, vol4,3,

July-Sept 2016, pp 92-96

12. Three-Dimensional Solute Transport through Unsaturated porous media with Finite VariableCoefficients, International Journal of Research and Reviews in Applicable Mathematics and Computer Science, vol1, No6, December 2011, pp.9-23

13. Distribution of Solute Transport in Two-Dimensional Flow, H S Doreswamy International Journal of Mathematicsand Applied Statistics, vol2, No2, July-December 2011, pp.81-94

14. A solution of the Differential Equation of Dependent Dispersion along uniform and non- uniformflow with variable coefficients in a finite Domain, H S Doreswamy International Journal of Mathematical and Analysis vol3, No2, July-December 2011, pp.89-105,

15. A solution of the Differential Equation of Longitudinal Dispersion with variable Coefficients infinite Domain, H S Doreswamy, International Journal of Applied Mathematics and Physics, vol2, No2, July-December 2010, pp. 193-204

16. Major air pollutants and their Effects, H S Doreswamy, Mapana National Journal of Sciences, vol 9, NO 2,July-December 2010,pp21-27

17. Two-Dimensional Model for an area source of steady emission with variable wind velocity andeddy-Diffusivity, H S Doreswamy, 2nd AP Science Congress, S.V. University, Tirupati, November 14-16, 2009

18. Finite Element Analysis of An Automobile Brake Drum by using ANSYS, H S Doreswamy, The Oxford College of Engineering, pp.66-71

19. An overview: The Dispersion Theory Applied to the Mathematical Modeling of the Atmospheric Pollution, EPGI Journal, 2022

20. Application of variational homotopy perturbation method for Newell-whitehead-Segel equation, EPGI Journal-Aug-2023

21. Application of variational homotopy perturbation method for Schrodinger equation, IJSRST, Vol. 8, Issue 2, Jan 2021, pp 79-84

Conferences

1. Variational Homotopy Perturbation for Solving some initial Boundary value problems, International Virtual Conference on progress in Mathematics towards Industrial Applications, Proceedings of PMTIA-2022, PP-169

2. Solution of the homogeneous and non-homogeneous diffusion-convection problem by Laplace transform of homotopy perturbation method, ICMTA-2023 (Communicated for Possible Publication in International Journal)

3. Solution of Schrodinger equation using variational Homotopy Perturbation Method, International Conference on Modelling, Simulation and Optimisation of Energy systems (MSOES-2023).

4. Solving the Diffusion Equations by Laplace Transform of Homotopy Perturbation Method, RAAS-2023, ISSN-978-81-951171-1-6

5. The Dispersion Theory Applied mathematical modeling of the atmospheric solution ,ETFM & GT February 2011 organalized by Christ university

Achievements/Awards/Recognitions

1. **NPTEL Discipline stars Award- Jan-Dec 2020**
2. **NPTEL Believers Award - Jan-Dec 2020**
3. **NPTEL Appreciation as a SPOC- Jan-Dec 2020**
4. **Best paper (Gold Medal) presentation, JAN 2021,Conference-ASSET-2021**

FDP & TRAINING

1. 5-days FDP on Mathematics for Data Sciences at Kumaraguru college of technology 2021-7-26 to 2021-7-30
2. 5-days FDP on Introduction to financial Mathematics at Dr SPM IIIT ,Naya

	Raipur 2021-08-19 to 2021-08-2023
	3. 5-days FDP on Data Sciences & Industrial Applications at NIT Jamshedpur 2021-10-01 to 2121-10-5
	4. 5-days FDP on Computer Vision at SCTR's at Pune from 2021-12-6 to 2021-12-10
	5. 5-days FDP on Resent Research area & its Applications in Mathematics at VTMT Tamilnadu 10 to 15th October 2022
	6. 15-days FDP on Current Trends in Applications of Mathematics at Vel Tech Tamilnadu,21-9-2022 to 4-10-2022
	7. 15-days FDP on Frontiers of Mathematics at SRMIST, Chennai from 19-5-2022 to 2-06-2022
	8. Three days FDP on The Magic of Probability & Introduction to Decision Analysis at BIT Bangalore from 7th to 9th September 2022
	9. One day Webinar on Graph Theory- Partition Problem at SIMATS, Channai on 7th June 2022
	10. Two days FDP on Recent Advances in Mathematics organized by GITAM university ,AP on 20th to 21st December 2021
	11. 5-days FDP on Advanced and Technical Computing with MATLAB-Presidency University
	12. Faculty Training Programme on NIPAM , Government of India on June 15th 2022
	MOOC Courses, NPTEL Course Completion
	1. Air Pollution and Control, NPTEL, Jan-Apr 2023
	2. NBA Accreditation and Teaching-Learning in Engineering, NPTEL, Jan-Apr 2023
	3. Integral and Vector Calculus, NPTEL, Jan-Apr 2023
	4. Accreditation and outcome-based Learning, Aug-Oct 2022
	5. Regression Analysis, NPTEL, Jul-Oct 2022
	6. Matrix Solver, NPTEL, Jul-Oct 2022
	7. Graph Theory, NPTEL, Jan-Mar 2022
	8. Python for Data Science,NPTEL, Jan – Feb 2022
	9. Mathematical Methods in Physics-2, NPTEL, Aug-Oct 2021
	10. Partial Differential Equations (PDE) for Engineers: Solution by Separation of Variables, NPTEL, Jan-Feb 2021
	11. Introduction to Methods of Applied Mathematics, NPTEL, Sep-Dec 2020
	12. Laplace Transform,NPTEL, Sep-Oct 2020
	13. Transform Calculus and its applications in Differential Equations NPTEL, Jan-Apr 2020
	14. Mathematical Methods and its Applications, NPTEL, Jan-Apr 2020
	15. Integral Transforms and their Applications, NPTEL, Jul-Oct 2019
	16. Matrix Analysis with Applications, NPTEL , Aug-Oct 2019
	17. Differential Equation Part-1, Course era
	18. Introduction to Calculus, Course era
	19. Fibonacci Numbers and Golden Ratio ,Course era
	20. Mathematical Foundation for Cryptography, Course era
	21. Mathematics for Machine Learning, Course era
	22. Matric Algebra for Eng's, Course era
	23. Basic Statistics, Course era
	24. Introduction to Bayesian's Statistics, Course era
	25. How to use Look up reference Maths & Text Function in Excel, Course era
	26. Mathematics for ML-Algebra, Course era
	27. Calculus, Course era

Annexure-4