National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile:

Dr. Abhijit Das grew up in Assam and studied Mathematics in Assam and in Odisha. He can communicate in four different languages: Assamese, Bengali, Hindi and English. He is currently working as an Assistant Professor in the Department of Mathematics, National Institute of Technology, Tiruchirappalli. After completing his Ph.D. from the National Institute of Technology (NIT), Rourkela, he has worked as an Assistant professor of Mathematics at Amity University Madhya Pradesh Gwalior (2018-2019) and at Pandit Deen Dayal Petroleum University, Gandhinagar, Gujarat (2019-2020).

His research interests include Fluid Dynamics, Boundary Layer Flows, non-Newtonian fluid flows, Hydrodynamic Stability Analysis. He has published a few papers on non-Newtonian boundary layer flows, the details of which can be found below. He has supervised two M.Sc. students so far and currently guiding one Ph. D. student.

1. Name: Dr. Abhijit Das

2. Designation: Assistant Professor

3. Office Address: Room # 204, Department of Mathematics, LYCEUM building, NIT Campus, Tiruchirappalli - 620 015, Tamil Nadu

4. Telephone (Direct) (Optional):   8093329659

    Telephone :

    Extn (Optional):

    Mobile (Optional):

5. Email (Primary): abhijit@nitt.edu   Email (Secondary) :

6. Field(s) of Specialization: Computational Fluid Dynamics

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	Amity University Madhya Pradesh Gwalior	July 2018	July2019

Assistant Professor	Pandit Deen Dayal Petroleum University	August 2019	June 2020

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
B.Sc.	Gauhati University	2010	First	Mathematics (Hons)
M.Sc.	IIT Guwahati	2012	First	Mathematics and Computing
PhD#1	NIT Rourkela	2019	N/A	Mathematics

#1 PhD Thesis Title: Study of non-Newtonian Swirling Flows Near Rotating Disks

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Executive Member, Welfare Committee	Department of Mathematics, NIT Tiruchirappalli	July 2020	Till Date
Executive Member, Placement Committee	Department of Mathematics, NIT Tiruchirappalli	July 2020	Till Date
Faculty Coordinator, Mathematical Research forum	Department of Mathematics, NIT Tiruchirappalli	July 2020	Till Date

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work
   (i) Curriculum Development: Introduction to Hydrodynamic Stability (PG/PhD level coursework)
   (ii) Courses taught at Postgraduate and Undergraduate levels
        UG level: MAIR11-Matrices and Calculus
                 MAIR12-Linear Algebra and Calculus
                 MAIR21-Complex Analysis and Differential Equations
                 MAIR36-Laplace Transform and Probability Theory

        PG level: MA702-Algebra
        PhD level: MA801-Research Methodology in Mathematical Science

   (iii) Projects guided at Postgraduate level
   (iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Linear stability analysis of nanofluid flows due to the motion of stretchable rotating disks	R&C, NIT Tiruchirappalli	April 2021	March 2023	Ongoing

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Amit Kumar Pandey (416121002)	To be decided	Supervisor	--

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
05 – 09 April, 2021	Five days Online Workshop on Functional Analysis & Numerical Analysis (W – FANA)	National	Speaker	Mathematics Department, NIT Trichy	NIT Trichy
17th-21st January, 2022	Five Days National Workshop on Mathematical Sciences for CSIR and GATE Aspirants	National	Speaker and organizer	Mathematics Department, NIT Trichy	NIT Trichy
4th-8th April, 2022	Five Days' National Workshop on MATLAB and LaTeX for Beginners	National	Speaker and organizer	Mathematics Department, NIT Trichy	NIT Trichy
June 9-11, 2022	ICFTES'22: 1st International Conference in Fluid, Thermal and Energy	International	Participant	National Institute of Technology Calicut	National Institute of Technology Calicut

Systems-2022				

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Five Days National Workshop on Mathematical Sciences for CSIR and GATE Aspirants	National	17th-21st January, 2022	Organizer	Mathematics Department, NIT Trichy
Five Days' National Workshop on MATLAB and LaTeX for Beginners	National	4th-8th April, 2022	Organizer	Mathematics Department, NIT Trichy
Inauguration of MATHEMATICS RESEARCH FORUM & the celebration of NATIONAL MATHEMATICS DAY	National	22nd December, 2021	Organizer	Mathematics Department, NIT Trichy
MRF Lecture Series	National	Thursday seminars; January to May, AY-2021-2022	MRF Lecture Series	Mathematics Department, NIT Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization
Brief introduction to Homotopy Analysis Method (HAM)	February 26, 2022	C.V. Raman Global University Odisha, Bhubaneswar, India

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

 (A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
A. Das and B. Sahoo	Flow of a Reiner-Rivlin fluid between two infinite coaxial rotating disks	Mathematical Methods in the Applied Sciences	Volume41, Issue14	Pages 5602-5618	2018	3.007 (2021)
A. Das and B. Sahoo	Flow and Heat Transfer of a Second Grade Fluid Between Two Stretchable Rotating Disks	Bulletin of the Brazilian Mathematical Society, New Series	49	531–547	2018	1.177 (2020)
A. Das and B. Sahoo	Application of HAM to the von Kármán	International Journal of Applied and	4,	Article number: 113	2018	--

	Swirling Flow with Heat Transfer Over a Rough Rotating Disk	Computational Mathematics					

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
A. Das	Analytical Solution to the Flow between Two Coaxial Rotating Disks Using HAM	Part of special issue: INTERNATIONAL CONFERENCE ON COMPUTATIONAL HEAT AND MASS TRANSFER (ICCHMT) - 2015	Procedia Engineering Volume 127, 2015, Pages 377-382	Part of special issue: INTERNATIONAL CONFERENCE ON COMPUTATIONAL HEAT AND MASS TRANSFER (ICCHMT) - 2015	NIT Warangal	2015
A. Das and B. Sahoo	An Analytic Solution of the Unsteady Flow Between Two Coaxial Rotating Disks	Part of the Trends in Mathematics book series (TM)- First Online: 02 February 2019	Applied Mathematics and Scientific Computing pp 129–138	International Conference on Advances in Mathematical Sciences, Vellore, India, December 2017	Vellore, India	2017
A. Das and S. Sarkar	Flow Analysis of Reiner–Rivlin Fluid Between Two Stretchable Rotating Disks	Part of the Lecture Notes in Mechanical Engineering book series (LNME)- First Online: 13 November 2019	Recent Trends in Wave Mechanics and Vibrations pp 61–70	National Conference on Wave Mechanics and Vibrations (WMVC 2018)	NIT Rourkela	2018

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number