



Tusar Parida, Ph.D.

Designation : Associate Professor

Department : Department of Basic Sciences and Humanities

(JOINED THE INSTITUTE IN YEAR January 2018)

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RESEARCH INTERESTS

- ✓ Computational Fluid Dynamics

Academic Qualifications:

M.Sc: Ravenshaw Auto. College, Cuttack.

Ph.D: Utkal University, Odisha.

Teaching Experience/Industrial Experience/Research Experience

- ✓ Lecturer: INSTITUTE OF TECHNOLOGY, BHUBANESWAR, 1998 - 2001.
- ✓ Associate professor: COLLEGE OF ENGINEERING, BHUBANESWAR from 2001 - 2018.
- ✓ Sr. Asst. professor: SILICON INSTITUTE OF TECHNOLOGY, BHUBANESWAR from 2018 to 2021.
- ✓ Associate professor: SILICON INSTITUTE OF TECHNOLOGY, BHUBANESWAR from 2021 to 2024.
- ✓ Associate professor: SILICON UNIVERSITY, BHUBANESWAR from 2024.

Publications

JOURNAL ARTICLES & CONFERENCE PAPERS

- [1]. P.K Rath, T. Parida, G.C.Dash, " Three dimensional free convective flow through porous medium in a vertical Channel with heat source & chemical reaction, " Proceeding of the National Academy of Science, India, Vol;. 82(3), pp.225-232,2012.

- [2]. P.K Rath,**T. Parida**, G.C.Dash," MHD flow with heat and mass transfer on a porous stretching wall embedded in porous medium with chemical reaction," AMSE, France, Modelling, Measurement & Control, B, Vol-81, No.2, pp-19-39,2012.
- [3]. **T. Parida**, P.K.Rath , N. Mohapatra, " Effect of Hall current & Chemical reaction on MHD flow along a porous plate with internal heat absorption/generation," International Journal of Physical Sciences, Ultra Scientist, Vol-24(2) B, pp-225-238, 2012.
- [4]. **T. Parida**, P.K.Rath," Unsteady two dimensional MHD flow along vertical porous surface with heat source & chemical reaction." IOSR Journal of Engineering (IOSRJEN), Vol-2(9), pp.7-17.2012.
- [5]. **T. Parida** , P.K.Rath," Free Convective MHD flow of visco elastic fluid past a vertical porous plate in the presence of heat source and chemical reaction." Journal of Engineering Thermophysics, Vol-25(2), pp.288-298. (Springer Pub.) DOI-10.1134/S1810232816020132, 2016.
- [6]. **T. Parida**, P.K.Rath , M. Das." Effect of Hall current & chemical reaction on MHD flow along a porous plate with internal heat absorption/generation," Journal of Engineering Thermophysics, Vol-25(3), pp.424-442. (Springer Pub.) DOI-10.1134/S1810232816030115, 2016.
- [7]. M. M. Muduly, P.K.Rath, **T.Parida**, G.C.Dash, K.Swain," Study of an unsteady fluctuative MHD flow of elasticoviscous liquid past a vertical porous plate," Heat Transfer (Wiley), DOI-10.1002/htj.22742,2022.
- [8]. M. M. Muduly, K.Swain, P.K.Rath, **T.Parida** ,G.C.Dash," Unsteady thermally radiative and chemically reactive viscoelastic fluid flow past a vertical porous plate with a heat source," Heat Transfer (Wiley), DOI-10.1002/htj.22754.2022.
- [9]. M. M. Muduly, P.K.Rath, **T.Parida**, G.C.Dash,"Heat and mass Transfer MHD flow of a viscous fluid past a vertical plate under oscillatory suction velocity with thermal radiation and sores effect,"AIP Conference proceedings 2819,050007, <https://doi.org/10.1063/5.0136963>,2023.

Conferences:
(Paper Presentation)

- [1] **T.Parida**, P.K.Rath, Two dimensional unsteady flow of an electrically conducting visco-elastic fluid along vertical porous surface with heat source and chemical reaction, National Conference on Recent trend in Mathematical Analysis and application, 22nd-23rd Dec 2010, Berhampur University, Odisha.
- [2] **T.Parida**, P.K.Rath, Two dimensional unsteady MHD flow of a visco-elastic fluid along vertical porous surface with fluctuating temperature and concentration, National seminar on Data science with 46th annual conference of Odisha Mathematical Society, 19th - 20th January 2019, Silicon Institute of Technology, BBSR.
- [3]. **T.Parida**, P.K.Rath, Thermal Radiation Effect on Un-steady two-dimensional MHD flow of a visco-elastic fluid along vertical porous surface with heat source and chemical reaction, International Conference on Innovation

and research in science and technology for sustainable development, 27-28th May 2022, OP JINDAL UNIVERSITY , RAIGARH.

- [4]. **T.Parida**, Unsteady three dimensional flow of an electrically conducting viscoelastic fluid along vertical porous surface with heat source and chemical reaction, International Conference on Innovation and research in science and technology for sustainable development, 25-26th May 2023, OP JINDAL UNIVERSITY , RAIGARH.

CONFERENCE/ SEMINAR/ FDP/WORKSHOP ATTENDED

- [1]. National Workshop on operations Research, 29th Feb -2nd March.2008, DRIEMS, Cuttack.
- [2]. National Conference on Computational Learning Theory, 27th-28th Sept. 2008, CEB, Bhubaneswar.
- [3]. National Conference on Secured Adhoc Network, 10th -11th Oct. 2009, CEB, Bhubaneswar.
- [4]. National seminar on Role of Mathematics in Engg. And Technology, 8th- 9th Jan 2011, ITER Bhubaneswar.
- [5]. National seminar on Optimization techniques and its application, 16th-17th Dec 2011, Trident Academy of Technology Bhubaneswar.
- [6]. National Conference on Advances in Mathematical analysis and its applications held on 19th-20th Dec. 2014 in NIST, Berhampur.
- [7]. National Workshop on Fluid Mechanics, 20th-30th May 2014, IIT, Kharagpur.
- [8]. National Workshop on Introduction to Design of Algorithms (attended), 27th April - 30th May 2015, IIT, KHARAGPUR.
- [9]. National seminar on Role of Technology in socio-Economic Development of the nation, 26th-27th Dec. 2015, CEB Bhubaneswar.
- [10]. Faculty development programme on Design of Micro Optical components using advance software tool, 27th Nov. —9th Dec 2017, GITA Bhubaneswar.
- [11]. UGC sponsored Refresher course on Basic Science, 22nd February-14th March 2017, Utkal University, Vanivihar, Bhubaneswar.
- [12]. Seminar on Current Environmental Issues and Challenges-2018, 24th March 2018, Silicon Institute of Technology, Bhubaneswar.
- [13]. FDP for student induction, 04 - 06 August 2018, SOA University, Bhubaneswar organised by AICTE.
- [14]. National seminars on Data Science with annual conference of OMS, 19 & 20th January 2019, SIT BBSR.
- [15]. National seminar on Future India: Science and Technology, 1st – 2nd February 2019, KIIT (ISCA), Bhubaneswar.
- [16]. National seminar on Science and Technology: Rural Development, 13th – 14th December 2019 KIIT (ISCA), Bhubaneswar.

- [17]. FDP on Multidisciplinary approach to Mathematics as Engineering Applications-2019 (attended), 23rd – 28th December 2019, C.V.Raman Collège of Engineering, Bhubaneswar.
- [18]. Workshop on Functional Materials for Emerging Technology (FMET-2020), 13th – 15th February 2020, Silicon Institute of Technology, Bhubaneswar.
- [19]. International webinar on Block chain Technology, Application and use cases, 17th July 2020, Hindustan Institute of Technology, TN.
- [20]. International webinar on Technological Breakthrough in measuring human pain using pain inducer, 20th July 2020, Francis Xavier Engg. College, Tamilnadu.
- [21]. International webinar on FDP on Applications of Mathematics in Engineering, 20th – 25th July 2020, KPR Institute of Engineering and Technology, Tamilnadu.
- [22]. International webinar on FDP on Applications of Mathematics in Engineering, 27th – 31st July 2020, KPR Institute of Engineering and Technology, Tamilnadu.
- [23]. International webinar on Pursuit of Excellence in Engg. 4th August 2020, Govt. Engg. College, Bilaspur, Chhatisgarh.
- [24]. International webinar on Recent Trends in Mathematical Sciences, 6th – 7th August 2020, Govt. Arts and Science P.G. College, M.P.
- [25]. Webinar on Spectral Ranking, 18th August 2020, KPR Institute of Engineering and Technology, Tamilnadu.
- [26]. National webinar on MATLAB Tools and Application, 7th, 8th and 10th August 2020, Babu Banarasi Das Northern India Institute of Technology, Lucknow.
- [27]. FDP on Computational Linear Algebra, 10th—31st August 2020, SIT, BBSR.
- [28]. STTP on Role of Computational Mathematics in Science and Engg. 15th – 19th February 2021, CET (Auto), BBSR.
- [29]. Webinar on Functional Materials for Emerging Technology, FMET-2021, 2nd-5th March 2021, SIT BBSR.
- [30]. STTP on Professional Ethics & Human Values, 22nd – 27th March 2021, SIT BBSR.
- [31]. Webinar on Mathematical Software Workshop, 02 – 06 June 2021, Universal Engg. College, Kerala.
- [32]. FDP on Number Theory and its Application, 14 -19 June 2021, Gates Institute of Technology, Andhra Pradesh.
- [33]. FDP on Application of Mathematics in Science and Technology, 21 – 26 June 2021, Narasu's Sarathy Institute of Technology.
- [34]. Webinar on Development of governing equations of Fluid Dynamics, 02 – 03 August 2021, KPR Institute of Engineering and Technology, Tamilnadu.
- [35]. Webinar on "Functional Materials for Emerging Technology, th th Bhubaneswar from 14 – 17 March, 2022, SIT BBSR.
- [36]. Webinar on Applications of advanced science in modern Technology and Industrial Engineering, 13&14 May 2022, College of Engg, BBSR.

- [37]. FDP on A Get Together with a system of linear equations for Machine Learning, 12 – 30 July 2022, SIT BBSR.
- [38]. Refresher Course in Applicable Mathematics, 26-28 July 2022, TLC, Ramanujan College, Delhi.
- [39]. National seminar on Ancient Indian Science, Technology, Engineering and Mathematics (STEM), 15 October 2022, NITTTR, Kolkota.
- [40]. FDP on Accreditation Process & NBA, 17 – 21 January 2023, NITTTR, Kolkota.
- [41]. FDP on Entrepreneurship, 10 – 22 April 2023, SIT BBSR.
- [42]. National Conference on Innovation and research in science and technology for sustainable development, 25-26th May 2023, OP JINDAL UNIVERSITY, RAIGARH.
- [43]. FDP on Mathematical concept and Building Blocks for Simulation, 07 -23 August, 2023, SIT BBSR.

Books:

- [1]. **T. Parida**, G.C.Dash, Optimization in Engineering, Alok Publication, Bhubaneswar, 2007.
- [2]. **T.Parida**, G.C.Dash, Discrete Mathematical structure, U.G. Publication, Bhubaneswar, 2013.
- [3]. L.K.Bhopa, P.K.Rath and **T.Parida**, The Monograph of Laboratory Activities in Mathematics for Class IX, Pathasala Publication, Bhubaneswar, 2019.
- [4]. L.K.Bhopa, P.K.Rath, **T.Parida**, The Monograph of Laboratory Activities in Mathematics for Class X, Pathasala Publication, BBSR, 2019.

MEMBERS:

- [1]. Life member of Indian Society for Technical Education.
- [2]. Life member of Odisha Mathematical society.
- [3]. Life member of The Indian science congress Association.

Ph.D Guidance:

PhD : 2 (BPUT, Silicon University)