



Dr. Tarun Kumar Chakra

Name : Dr. Tarun Kumar Chakra
Designation : Assistant Professor
Department : Department of Basic Science and Humanities
(JOINED THE INSTITUTE IN 2022)
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RESEARCH INTERESTS

Complex Dynamics - Iteration of transcendental entire and meromorphic functions;
Dynamics of meromorphic functions with countably many essential singularities;
Dynamics of Hyperbolic entire functions.

Academic Qualifications

Post Doctoral Fellow – Department of Mathematics, IIT Madras & P. G.

Department of Mathematics, Utkal University, Bhubaneswar

Ph. D. (Mathematics), School of Basic Sciences, Indian Institute of Technology,
Bhubaneswar

M.Phil. (Mathematics), Berhampur University

M. Sc. (Mathematics), Utkal University, Bhubaneswar, Odisha, India

Specialization: Numerical Analysis, Number Theory and Cryptography, Computational
Finance

Teaching Experience/Industrial Experience/Research Experience

- ✓ Department of Mathematics, Ekamra College, Bhubaneswar, Odisha, India, 1 October 2021 - 31 May 2022.
- ✓ IIIT Sonapat, Sonapat, Haryana, 18 December 2020 - 30 June 2021.
- ✓ Institute of Mathematics and Applications, Bhubaneswar, 01 January 2020 - 30 June 2020.

PUBLICATIONS

1. T. K. Chakra and T. Nayak, Iteration of the Translated Tangent, *Bull. Malay. Math. Sci. Soc.*, Vol. 42 No. 5, 1993-2008, 2019. Listed in: SCI(E) & Scopus
2. T. K. Chakra, G. Chakraborty, and T. Nayak, Herman rings with small periods and omitted values, *Acta Math. Sci.*, Vol. 38(B) No. 6, 1951-1965, 2018. Listed in: SCI(E) & Scopus
3. T.K. Chakra, T. Nayak, and K. Senapati, Iteration of certain Exponential-like meromorphic functions, *Proc. Indian Acad. Sci. (Math. Sci.)*, Vol. 128:64, No. 5, 2018. Listed in: SCI(E) & Scopus
4. T. K. Chakra, G. Chakraborty, and T. Nayak, Baker omitted value, *Complex Var. Elliptic Equ.*, Vol. 61, No.10, 1353-1361, 2016. Listed in: SCI(E) & Scopus

ANY OTHER

Awards & Fellowships

- ✓ National Board for Higher Mathematics Post Doctoral Fellowship (NBHM PDF), Department of Atomic Energy, Government of India, awarded on Aug 30 2017
- ✓ Council of Scientific and Industrial Research (CSIR-UGC-NET), Department of Higher Education, Government of India, PhD Fellowship awarded in June 2010. AIR- 0143 / 0379. 2010
- ✓ Graduate Aptitude Test in Engineering (GATE), qualified on Mar 15, 2010. AIR- 245
- ✓ University Grant Commission (CSIR-UGC-NET), Department of Higher Education, Government of India, PhD Fellowship awarded in December 2009. AIR- 0123 / 226.
- ✓ Graduate Aptitude Test in Engineering (GATE), qualified on Mar 15, 2009. AIR- 301.

Papers Submitted

1. S. Chatterjee, G. Chakraborty and T. K. Chakra, On the Denjoy-Wolff like sets of rational semi-groups.
2. S. Chatterjee, G. Chakraborty and T. K. Chakra, Fatou- Julia theory on K-semigroups.

Paper Presented in the National & International Conference

1. Paper entitled "Dynamical aspects of certain parameter family of meromorphic functions" was presented in the National Conference on recent advances in mathematics and its applications organized by NIT Rourkela, December 07-08, 2018.
2. Paper on Iteration of an Exponential-like meromorphic functions was presented in the International Conference on advances in pure and applied mathematics organized by School of Mathematics, Madurai Kamraj University, September 06-08, 2018.

