

Curriculum Vitae

1. Name: SUBHASIS RAY
2. Home Address: Vill+P.O – Boinchigram, Dist- Hooghly, W.B. India.
3. Office Address: Department of Mathematics, Siksha Bhavana,
Visva-Bharati University, Santiniketan-731 235, India.
4. E-mail address: subhasis.ray@visva-bharati.ac.in
5. Date of birth: 24.08.1973
6. Citizenship: Indian
7. Gender: Male
8. Marital status: Married
9. **Educational profile:**
 - Secondary (Class 10) with 1st division, W. B. Board of Secondary Education.
 - Higher Secondary (Class 10+2) with 1st division, W. B. Council of H. S. Education.
 - B. Sc. (Hons. in Mathematics) with 1st class, University of Burdwan, Burdwan, India (1994).
 - M. Sc. (Pure Mathematics) with 1st class, University of Burdwan, Burdwan, India (1996).
 - Ph.D. in Mathematics, Burdwan University, Burdwan, India in the year 2004. Thesis Title : Higher Order Differentiation and Non-absolute Integration.
10. **Teaching and research experience:**
 - **1997-2000** : Research Fellow (CSIR, Govt. of India) through JRF-NET for pursuing Ph.D.
 - **2000-2006** : Lecturer in Mathematics in the Department of Mathematics, Kalna College, Kalna, India, during 1997-2000.
 - **01.03.2006 to till date:** Professor in the Department of Mathematics, Siksha Bhavana, Visva-Bharati University, Santiniketan-731 235, India.

12. **Area of research interests:**

- Real analysis: Real function theory, Generalized derivative on real line and Banach Space. Theory of non absolute integration and its application to trigonometric series.
- Soft Set Theory.

13. **Ph. D. Supervision :**

• **Ph.D. awarded students :**

1. Anupam Garai

Thesis Title : On the Generalized Higher Order Derivatives.

2. Subhankar Ghosh

Thesis title : Some studies on higher order generalized derivatives, divided difference and And their interrelation.

• **Thesis submitted students :**

1. Tarun Garai

Thesis Title : On the Generalized continuity, generalized derivative and its application in Integration theory.

2. Sujay Golder

Thesis title : Measure theory in soft set setting.

• **Current Ph.D students :**

1. Sougata Mahanta

2. Suranjana Dev

3. Anirban Mandal

4. Suman Pal

List of Publications in last 10 years

1. S. N. Mukhopadhyay and **S. Ray**, 'On Laplace derivative' **Analysis Mathematica** , volume 36 No.2 (2010) 131-153.
2. A. Garai and **S. Ray**, 'On The Symmetric Laplace Derivative' **Acta Mathematica Hungarica**, Volume No. 133 (1-2) (2011), 166-184.
3. S. N. Mukhopadhyay and **S. Ray**, "Generalised absolutely kth continuous functions", **Indian Jr. of mathematics** Vol.53, No.3, Dec. 2011
4. **S. Ray** and T. Garai, " On Laplace continuity," **Real analysis Exchange**, Vol-37(2), 2012, pp.279-290
5. **S. Ray** and S. Ghosh, "On some mean value theorems for Laplace derivative" International Journal of Mathematics and Analysis, Vol. 4, No. 1, 2012, pp. 65-70.
6. **S. Ray** and A. Garai, " On Laplace Derivative 1," The Mathematics Student, Vol-81, Nos 1-4 (2012)
7. **S. Ray** and A. Garai , " On Laplace Derivative II" The Mathematics Student, Vol-81, Nos 1-4(2012)
8. A. Garai and **S. Ray** ," "Convexity Conditions For The Higher Order Symmetric Laplace Derivable Functions" Allahabad Math. Soc. 2013.
9. **S. Ray** and T. Garai,"Convexity Conditions For Approximate Generalized Riemann Derivable Functions" **Indian Jr. of Mathematics** . 2013.
10. **S. Ray** and T. Garai,"Integration by parts of Laplace-Perron integral", Rev. Bull. Cal. Math. Soc. 21(1), 2013, 71-78.
11. **S. Ray** and T. Garai,"Convexity condition for approximate Generalized Riemann Derivable Functions" **Indian Journal of Mathematics** , Vol. 55, No. 3, 2013, 315-323.
12. **S. Ray** and A. Garai, "On higher order Laplace Smooth functions" , Bulletin of the Allahabad Mathematical Society, 29(2), 2014, 152-173.
13. **S. Ray** and A. Garai, "On Borel derivative", Bulletin of Calcutta Mathematical Society, Vol. 106, No. 4, 2014, 273-280.
14. **S. Ray** and A. Garai, "On Symmetric Laplace Integral of order n" , **Springer Preceding of Mathematics and Statistic series**, Vol. 239, 2015, 461-480.

15. S. N. Mukhapadhyay and **S. Ray**, “Integration by parts for the Newton integral”, International Journal of Mathematics and Computation, Vol. 26, issue 1, 2015, 35-39.
16. T. Garai and **S. Ray**, “ Integration by Parts for DK Integral”, International Journal of Modern Engineering Reearch, 5(1), 61-65, 2015.
17. S. N. Mukhapadhyay and **S. Ray**, “Relation between L_p -derivates and Peano, Approximate Peano and Borel derivates of higher order”, **Real Analysis Exchange**, Vol.41, 2015/16, 1-22.
18. **S. Ray** and S. Ghosh, “On the Generalised Divided Differences”, Mathematical Journal of Interdisciplinary Sciences, Vol 5, No-1, 2016, 53-59.
19. **S. Ray** and A. Garai, “On Laplace smooth functions”, Bulletin of Allahabad Mathematical Society, Vol 31, Part 2 2016, 155-165.
20. **S. Ray** and S. Ghosh, “ On the higher order Borel Derivative”, The 10th International Conference MSAST, 2016, Kolkata, India.
21. A. Garai and **S. Ray**, “On Flett’s type mean value theorems for he functions of several variables”, The 10th International Conference MSAST 2016, Kolkata, India.
22. A. Garai and **S. Ray**, “Zahorski and Denjoy properties of symmetric Laplace derivative”, Bulletin of the Allhabad Mathematical Society, Vol. 32, Part 2, 2017, 271-286.
23. **S. Ray** and S. Goldar, “Soft set and soft group from classical view point”, **Journal of the Indian Math. Soc.** Vol. 84, Noc.(3 – 4)(2017), 273-286.
24. S. Goldar and . **S. Ray**, “A study of Soft Topology From Classical View Point”, Proceeding of IMBIC Vol-109(2) 2017 , 85-92.
25. T. Garai and **S. Ray**, “A Perron Type Integral using Lalace Derivative”, Bull. Cal. Math. Soc., 110, (1) 5-10(2018).
26. **S. Ray** and S. Ghosh, “Relations between some higher order Generalized Derivatives”, Bulletin of the Allabad Mathematical Society, Vol 33, Part 2 2018 195-209.
27. S. Goldar and . **S. Ray**, “A classical view of Soft Ring and Soft Ideal” Jr. of Applied Science and Computation, Vol. VI, issue III, March 2019.
28. S. Goldar and S. Ray, “A Study of Soft Topological Axioms and Soft Compactness by Using Soft Elements” Journal of New Results in Science (JNRS) Vol. 8, Issue: 2, 2019 Pages: 53-66.
29. S. N. Mukhopadhyay and **S. Ray**, “ Riemann Summability of trigonometric series and Riemann derivative of trigonometric function” **Real Analysis Exchange** Vol.44(2) 2019, Pages: 287-304.

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