

Bio-Data of Dr. Ranjan Das

(1) Name: Dr. Ranjan Das

(2) Date of joining: 11.10.1999

(3) Date of Retirement: 31.03.2027

(4) Educational Qualification:

| Exam. passed | Year of passing | Division/ Class | Name of the Board/ University |
|--------------|-----------------|-----------------|-------------------------------|
| HSLC | 1984 | I | SEBA |
| HSSLC(Sc) | 1987 | II | AHSEC |
| B.Sc. | 1990 | I | Gauhati University |
| M.Sc. | 1993 | I | Gauhati University |
| Ph.D. | 2011 | | Gauhati University |

(5). Other Qualification:

(a) Participation in Refresher/Orientation Courses/Summer Institutes:

(i) Year: 2001 University/Institutes: ASC-Gauhati University

(ii) Year: 2005 University/Institutes: ASC-Gauhati University

(iii) Year: 2010 University/Institutes: UGC-(NEHU)

(iv) Year: 2012 University/Institutes: UGC-ASC (NBU)

(b) Attending National/ International Conference:

(i) Year 2012-13 University/Institution Department of Statistics (G.U)

(6) Approval of Appointment was by the DPI, Assam:

Letter No. G (B) AC/35/99/30 Date: 14.10.1999 w.e.f : 11.10.1999

(7) Confirmation by the DPI:

Letter No. G(B)AC/W/conf42/99/125 Date. 16.07.2003 w.e.f. 16.07.2003

(8) Scale of Pay:

Lecturer: Letter No. G(B)AC/35/99/45 Date 14.10.1999 w.e.f. 11.10.1999

(9) Senior Scale: Letter No. G(B)UGC/98/310 Date. 23.04.2010 w.e.f. 11.10.2005.

(10) Senior Grade Scale: Letter No.G(B)UGC.995/2014/27 Date 01.08.2014 w.e.f. 11.10.2010

(11) Associate Professor: Letter No.G(B)UGC.995/2014/28 date.01.08.2014
w.e.f. 11.10.2013.

(12) Seminar and Popular Talks attended or delivered

(i) Phanidutta Memorial Lecture and Workshop on 20.01.1998, Department of Mathematics (G.U)

(ii) Recent trends in Statistics and its application, from 03.02.2012 to 04.02.2012, Department of Statistics, Arya Vidyapeeth College

(iii) Symposium on Examination Reforms on 18.02.2012, Department of Mathematics

(iv) Review and Reformulation of Undergraduate Mathematics Syllabus of Gauhati University from 10.04.2012 to 11.04.2012, Department of Mathematics (G.U)

(v) Symposium on Effective Teaching on 21.05.2012, Department of Education, Arya Vidyapeeth College.

(vi) Demographics Surveys in Rural India: State of the Art from 16.06.2012 to 18.06.2012, Department of Statistics, Arya Vidyapeeth College

(vii) National Seminar on Mathematics- its interdisciplinary Approaches in Modern Curriculum From 30.08.2013 to 31.08.2013, Department Mathematics, Devicharan Barua Girls College, Jorhat.

(viii) National Seminar on recent trends in Mathematics & its Application from 07.10.2013 to 08.10.2013, Department of Mathematics, Digboi College, Digboi.

(ix) Higher Order Relativistic Effect on electron beam plasma from 26.03.2015 to 28.03.2015, Department of Mathematics (G. U.)

(13) Publications: (1) Book Published:

(i) A New Approach to College Mathematics for TDC I semester (General), Year-2012

(ii) A New Approach to College Mathematics for TDC III semester (General), Year-2013

(iii) A New Approach to College Mathematics for TDC V Semester (General) Paper I, Year-2014

(iv) A New Approach to College Mathematics for TDC V Semester (General) Paper II, Year-2015

(14) Research Publications:

| Name of Research Paper Published | Year of Publication Vol. & No. | Name of journals | National/ International |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------|----------------------------|
| 1. A comparative study of modified Korteweg – de Vries (MKdV) and Korteweg – de Vries (KdV) solitons in plasmas with negative ions under the influence of electrons' drift motion. | 1998 Volume 5 Number 10 | Physics of Plasmas (USA) (Impact Factor 2.427) | International |
| 2. Modified Korteweg de Vries (MKdV) and Korteweg de Vries (KdV) Solitons in a Warm Plasma with Negative Ions and Electrons' Drift Motion. | 2002 Volume 71 Number 12 | Journal of the Physical Society of Japan (JAPAN) (Impact Factor 2.085) | International |
| 3. Small amplitude solitons in a warm plasma with smaller and higher order relativistic effects. | 2007 Volume 14 | Physics of Plasmas (USA) (Impact Factor 2.427) | International |
| 4. Solitons in a plasmas with negative ions under smaller and higher order relativistic effects. | 2009 Volume 5 Number 6 | International Journal of Applied Mathematics and Mechanics (INDIA) (ISSN 0973 - 0184) | International |
| 5. Weakly relativistic electron-beam plasma and formation of ion-acoustic solitary waves. | 2009 Volume 27 Number 2 | International Journal of Heat and Technology (ITALY) (ISSN 0392 - 8764) | International |
| 6. Weakly relativistic effect in the formation of ion-acoustic solitary waves in a positive ion-beam plasma. | 2010 Volume 88 | Canadian Journal of Physics (CANADA) (Impact Factor 0.676) | International |
| 7. Weakly relativistic | 2011 | Physics of Plasmas (USA) | |

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| solitons in a magnetized ion-beam plasma in presence of electron inertia. | Volume 18 | (Impact Factor 2.427) | International |
| 8. Relativistic solitons in a magnetized warm plasma. | 2011 Volume 7 Number 2 | International Journal of Applied Mathematics and Mechanics (INDIA) (ISSN 0973 - 0184) | International |
| 9. Relativistic solitons in a magnetized ion-beam plasma system. | 2012 Volume 6 Number II | International J. of Math. Sci. & Engg. Appls. (IJMSEA) (INDIA) (ISSN 0973 - 9424) | International |
| 10. Drifting effect of electrons on dust ion acoustic solitary waves in unmagnetized plasma. | 2012 Volume 10 Number 2 | International Journal of Research & Reviews in Applied Sciences. (PAKISTAN) (ISSN 2076-734X) | International |
| 11. Effect of ion temperature on small-amplitude ion acoustic solitons in a magnetized ion-beam plasma in presence of electron inertia. | 2012 | Astrophysics and Space Science (NETHERLAND) (Impact Factor 1.743) | International |
| 12. Relativistic effect on fully nonlinear ion acoustic solitons in a magnetoplasma. | 2012 Volume 8 Number 12 | International Journal of Applied Mathematics and Mechanics (INDIA) (ISSN 0973 - 0184) | International |
| 13. Ion acoustic solitons in a plasma with relativistic electrons in presence of negative ions. | 2012 Volume 69 Number 2 | Far East Journal of Applied Mathematics (INDIA) | International |
| 14. Modified Korteweg-de Vries solitons in a dusty plasma with electron inertia and drifting effect of electrons. | 2013 Volume 91 | Canadian Journal of Physics (CANADA) (Impact Factor: 8802) | International |
| 15. Fast and Slow Modes on Dust Ion Acoustic Solitary Waves in a | 2013 Volume 3 | International Journal of Scientific and Research | International |

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| Warm Plasma | Number 4 | Publications (INDIA) (ISSN: 2250 – 3153) | |
| 16. Ion Acoustic Solitary Waves in a Negative ion Beam Plasma in Presence of electron inertia | 2013 Volume 9 Number 6 | International Journal of Scientific Research (INDIA) (ISSN: 2277 – 8179) | International |
| 17. Effect of ion temperature on dust ion acoustic solitary waves in a warm unmagnetized plasma with electron inertia. | 2014 Volume 3 Number 1 | International Journal of Innovative Research in Science, Engineering and Technology (INDIA) (Impact Factor: 1.672) | International |
| 18. Drifting effect of electrons on the formation of ion-acoustic solitons in a plasma with negative ions | 2014 Volume 5 Number 7 | International Journal of Scientific & Engineering Research FRANCE (ISSN: 2229 – 5518) | International |
| 19. Effect of beam temperature on the formation of ion acoustic solitons in a magnetized ion-beam plasma in presence of electron inertia | 2014 Volume 1 Number 2 | International Journal of Modern Sciences and Engineering Technology INDIA (ISSN: 2349 – 3755) | International |
| 20. Effect of positron temperature on high relativistic electron-positron-ion plasmas with nonthermal electrons | 2015 Volume 6 Number 7 | International Journal of Scientific & Engineering Research FRANCE (ISSN: 2229 – 5518) | International |
| 21. Korteweg de Vries Solitons in high relativistic electron-beam plasma | 2015 Volume 6 Number 5 | International Journal of Scientific & Engineering Research FRANCE (ISSN: 2229 – 5518) | International |

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| 22. Effect of positron inertia on ion acoustic solitary waves in electron-positron-ion plasma | 2016 Volume 1 Number 6 | International Journal of Advanced Scientific and Technical Research (INDIA) (ISSN: 2229 – 5518) | International |
| 23. Modified Korteweg-de Vries solitons on dust ion acoustic solitary waves in a warm plasma with electrons drift motion. | 2016 Volume 19 Number 3 | Advances and Applications in Fluid Mechanics (INDIA) ISSN: 0973-4686 | International |