

FACULTY MEMBERS' ACADEMIC PROFILE

- 1. Name of the Faculty member:** NIRMALENDU HUI
- 2. Designation:** Assistant Professor in Physics (W.B.E.S.)
- 3. Qualification:** M.Sc. (Burdwan University),
M.A. (Education, KU), B.Ed. (KU)
- 4. Specialization:** Electronics and Radio Physics
- 5. E-mail address:** huinirmal19@gmail.com
- 6. Date of Joining in W.B.E.S.:** 26.08.2010
- 7. Date of Joining in this College:** 13.03.2015
- 8. Total Teaching experience in College level:** 12+ years
- 9. Research interests:** Chaos, Nonlinear dynamics
- 10. Title of thesis (Ph.D.) with year:** N.A. Pursuing Ph.D. from Burdwan University
- 11. Research guidance:** Nil
- 12. Research Projects (Completed):** 01



Year	Name of PI	Title of Project	Amount (in Rs.)	Duration	Funding Agency with date
2013 - 2015	Nirmalendu Hui	Formulation and analysis of theoretical models relating therapeutic application of electromagnetic fields	1,57,000/-	2 years	UGC Ref. No.: F. PSW-69/12-13 (ERO), dated 18.02.2013

13. List of publications:**A) Published papers in Journals:**

1. "Ballistic transport through electric field modulated graphene periodic magnetic barriers", R. Biswas, A. Biswas, N. Hui and C. Sinha, *J. Appl. Phys.*, 2010, 108(4), 043708/1-7 [[ISSN 0021-8979](#); [IF: 2.877](#)].
2. "Studies on the suppression of Immune cells in a model of Psoriasis pathogenesis", N. Hui and B. Chattopadhyay, *Acad. J. Aureole*, 2011, 3(1), 1-12 [[ISSN 0976-9625](#)].
3. "Immunopathogenesis in Psoriasis through a density type mathematical model", B. Chattopadhyay and N. Hui, *Transactions on Mathematics (WSEAS)*, 2012, 11 (5), 440-450 [[ISSN 1109-2769](#)].
4. "Studies on bone-marrow formation within a theoretical model", N. Hui and B. Chattopadhyay, *IOSR Journal of Pharmacy and Biological Sciences*, 2014, 9 (4), 7-20 [[ISSN 2319-7676](#)].
5. "Amplitude death in intrinsic time-delayed chaotic oscillators with direct-indirect coupling: the existence of death islands", D. Biswas, N. Hui and T. Banerjee, *Nonlinear Dynamics*, 2017, 88 (4), 2783-2795 [[ISSN 0924-090X](#); [IF: 5.022](#)].

6. “Effects of Electromagnetic Fields on Bone Formation: Short Review” Nirmalendu Hui, Conscientia, 2019, VII, 69-81[[ISSN 2278 - 6554](#)]
7. “Effects of propagation delay in coupled oscillators under direct–indirect coupling: Theory and experiment”, N. Hui, D. Biswas, T. Banerjee and J. Kurths, *Chaos*, 2021, 31, 073115 [[ISSN 1054-1500](#); [IF: 3.642](#)].
8. “Supercapacitor: alternative energy storage”, N. Hui, U. Das and R. Mukherjee, Journal of Applied Science and Computations , 2021 , 8(6), 72-83 [[ISSN 1076-5131](#)]
9. “Synchronisation in two directly coupled neuronal system” Nirmalendu Hui, Conscientia, 2021, IX, 54-61[[ISSN 2278 - 6554](#)]
10. “Cooperative Behaviour of Fitzhugh-Nagumo System Under Direct-Indirect Coupling”, Nirmalendu Hui, Journal of Scientific Research, 2022, 66(1), 302-306 [[ISSN 0447-9483](#)].

B) Chapter in Book:

1. “Manabunnayan o Vivekananda: Arthasamajik sthitishilatar drishtibhangi” (in Bengali), N. Hui and P. Saha, In ‘*Bishay Bibekananda*’, Ed. Amaresh Mandal, Bangiya Sahitya Sansad, March-April, 2014, 136-143 [[ISBN 978-93-83590-35-3](#)].

14. Membership of Learned Societies/ Editorial Boards, etc.: Nil**15. Patents:** Nil**16. Awards:** Nil**17. Other notable activities:**

1. Participated as a Judge in District level Student Youth Science Fair and District level Students’ Science Seminar, 2013, organized under the aegis of Department of Youth Services, Govt. of West Bengal, West Bengal State Council of Science & Technology, Govt. of West Bengal and Birla Industrial & Technological Museum and held at Coochbehar Polytechnic College, Coochbehar on 30th August, 2013.
2. Participated as a Judge in District level Science Fair and Seminar, 2014, organized by Directorate of Youth Services, Youth Services Department, Govt. of West Bengal and held at A.B.N. Seal College Coochbehar from 1st - 2nd September, 2014.
3. Participated as Resource Person in District level Science Camp, organized by Vidyanagar G.D. Vidyamandir, Vidyanagar, Bardhaman, in collaboration with the Department of Science & Technology, Govt. of West Bengal from 5- 7th February, 2015.
4. Participated as a Judge in District level Exhibition and Project Competition under DST-INSPIRE Award Scheme, 2015, organized by Krishnagar A.V. High School, Krishnagar, Nadia on 12th August, 2015.
5. Participated as Resource Person in District level Science Fair, organized by Vidyanagar G.D. Vidyamandir, Vidyanagar, Bardhaman, in collaboration with the Department of Science & Technology, Govt. of West Bengal from 20-22nd January, 2016.

18. A) Participation in Seminars/Symposia/Conferences/Workshops:

1. Participated in UGC sponsored National Seminar on ‘*Performance of Third Generation Panchayats in North Bengal*’, organized by Department of Political Science, A.B.N. Seal College, Coochbehar on 4th - 5th December, 2010.
2. Participated in UGC sponsored National Seminar on ‘*Ethnicity, Regionalism, Polity and Economy of Easter India since Independence*’ organized by Department of History, A.B.N. Seal College, Coochbehar in collaboration with Department of History, NBU, Siliguri on 20th-21st December, 2010.

3. Participated in UGC sponsored National Seminar on 'A Journey through Recent Developments in Chemistry' organized by Department of Chemistry, A.B.N. Seal College, Coochbehar on 1st -2nd March, 2012.
4. Presented a paper entitled "Immunopathogenesis in Psoriasis from a theoretical model" in UGC sponsored National Seminar on 'Recent Advances in Life Science Application' organized by Department of Zoology, A.B.N Seal College in collaboration with Department of Agricultural Entomology, UBKV, Pundibari, Cooch Behar on 8-9th December, 2012.
5. Presented a paper entitled "Manabunnayan o Vivekananda: Arthasamajik sthitishilatar drishtibhangi (in Bengali)" in UGC sponsored National Seminar on 'Relevance of Swami Vivekananda in Present Social and Economic Scenario' organized by Department of Economics and Commerce Coochbehar College in collaboration with Ramkrishna Math, Coochbehar on 1st -2nd April, 2013.
6. Participated in Govt. of West Bengal sponsored State level Seminar on 'Rajyastariya alochana chakra - Ashutosh Mukhopadhyay' organized by A.B.N Seal College, Cooch Behar on 14th December, 2013.
7. Participated in Higher Education Directorate, Govt. of West Bengal sponsored State level Professor Satya Sundar Barman Memorial Lecture 2016 on 'Scientific Development and Technological Innovation of the 21st Century - Paving Peace or Annihilation', organized by Krishnagar Government College, Krishnagar, Nadia, in collaboration with ABSGCTA, on 10th December, 2016.
8. Participated in One-day Regional Level Seminar-2017 on 'Degenerative Diseases of Brain and Folk Music as a Healer', organized by Krishnagar Govt. College on 16th September, 2017.
9. Delivered an Invited talk entitled "Future India: Science and Technology" in the Symposium on "Future India: Science and Technology" Seminar, Exhibition & Quize Contest, organized by Indian Science Congress Association, Kolkata Chapter, on 6th April 2019.
10. Delivered an Invited talk entitled "The Progress of Space Science and New Technology in New India" in the Symposium on "Future India: Science and Technology" Seminar, Exhibition & Quize Contest, organized by Indian Science Congress Association, Kolkata Chapter, on 11th May 2019.
11. Presented a Paper entitled "Propagation delay promotes oscillation in directly and indirectly coupled oscillators" in the interdisciplinary international web seminar on "Modern trends in Humanities, Science & Technology and Social Sciences for Sustainable Development", organized by A. P. C. Roy Govt. College, Himachal Vihar, Matigara, Siliguri-734010, WB, on 23rd -24th September 2021.
12. Presented a Paper entitled "Impact Of Propagation Delay Under Direct-Indirect Coupling" in "13th Conference on Nonlinear Systems and Dynamics (CNSD-2021)" Organized by the Centre for Nonlinear Science & Engineering, SEEE, SASTRA deemed University, Thanjavur from 17th -22nd December 2021

B) Participation in OP/RC:

1. Participated in UGC sponsored 93rd Orientation Programme, organized by UGC-Academic Staff College, University of Burdwan, from 4th to 31st January, 2014.
2. Participated in UGC sponsored 2nd Refresher Course in 'Biological Science', organized by UGC-Academic Staff College, University of Burdwan, from 23rd September to 13th October, 2015.
3. Participated in Refresher Course in "Research Methodology", organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MHRD (PMMMNMTT), from October 01 - October 15, 2020.
4. Participated in One Week Faculty Development Programme on "Development and Implementation of MOOCS", organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MHRD (PMMMNMTT), from October 21 - October 27, 2020,.

5. Participated in One Week Faculty Development Programme on "Transforming Lifestyle Through Yoga Darshan & Its Functional Modes" organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MHRD (PMMMNMTT), from November 20 - November 26, 2020.
6. Participated in UGC sponsored online Multi-Disciplinary Refresher Course in "Multiculturalism" organized by UGC, Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad from 24th February to 9th March, 2022..