

CURRICULUM VIATE

Name: Dr. Chandan Debnath

Designation: Associate Professor

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Short Introduction:

- i) Serving as an Associate Professor in the *Department of Physics, Ambedkar College, Tripura since 2019.*
- ii) *Served as an Assistant Professor in M. B. B. College, Agartala, Tripura from 2014-2019*
- iii) *Served as an Assistant Professor in D. D. M. College, Agartala, Tripura from 2008-2014*
- iv) *More than 22 years of experience in teaching*

Academic qualifications:

1. PhD: 2019 Ph.D. (Thin films)

2. NET/SLET: 2005

3. Post-Graduation: 2000 (Electronics)

4. Graduation: 1996

5. 12th Class: 1993

6. 10th Class: 1991

Teaching experiences: 22 years

Administrative Experience:

- i) Head of the Department (2008 to 2012, 2016 to 2019, 2019 to 2023)
- ii) Coordinator of IQAC
- iii) Member of NAAC steering Committee
- iv) Joint editor of College Journal- ACRJ

Organizational experience:

- i) **Coordinator** of “one-week FDP on Intellectual Property rights” organized by Ambedkar College in collaboration with **IIT Guwahati** during 17th to 22nd January 2022
- ii) **Coordinator** of “one -day National webinar on Intellectual Property rights” held on 08-02-2022 organized in collaboration with **Patent Office, Kolkata**
- iii) **Organizing Secretary** of a one-day National webinar on “New Education Policy-2020- new horizon for Indian Education” held on 19/09/2020 organized by IQAC, Ambedkar College, Fatikroy, Unakoti
- iv) **Convener** of a one-day International webinar on “Redefining Language in the Modern Digital Era” Jointly organized by Dept. of English & IQAC, Ambedkar College, Fatikroy, Unakoti held on 1st July 2021.
- v) **Convener** of a one-day National webinar on “Values and Virtues for present Times: Reflection through the Mahabharata” held on 2nd August 2021 Jointly organized by Dept. of History and IQAC Ambedkar College, Fatikroy, Unakoti.
- vi) **Convener** one-day National webinar on “Impact of Covid-19 Pandemic on our water resource” Jointly Organized by Dept. of Physics, K.N. Mahavidyalya, Sonamura & Dept. of Physics, Ambedkar College, Fatikroy on 3rd July 2021.
- vii) **Convener** of one day International webinar on “Covid-19 outbreak and health: recent trends” held on 22 June 2021 , jointly organized by Dept of Zoology and IQAC Ambedkar College, Fatikroy, Unakoti.
- viii) **Joint Convener** of one day National webinar on “Facets of Synthetic and Medicinal Chemistry and their Active Applications in the Society” held on 25th June 2021 jointly organized by Physical science Dept. and IQAC Ambedkar College, Fatikroy, Unakoti.

ix) Convener of the National Workshop on “NEP-2020: Challenges & Prospects” organized by IQAC, Ambedkar College, Fatikroy, Unakoti on 17th January 2023

Research experience: 10 years

Project: UGC- NERO 3.2 lakhs

Title: “Characterizations of ultra-thin films of organic molecules prepared by charge transfer types of interactions”

Field of Interests: Materials Science (Thin films & Nanoscience), Organic Electronics

Published Research Papers:

Studies on Transport Properties of CdO-CuO Thin Film Hetero Junction
IEEE, 2013

Matrix dependent changes in metachromasy of crystal violet in Langmuir-Blodgett films”

Journal of Chemical Physics Letters 665 (2016) 76–84. Impact factor: 2.328

Formation of J-aggregates in Langmuir-Blodgett films: Effect of stearic acid and nano clay platelets”

Journal of Molecular Crystals and Liquid Crystals 638 (2016) 44-59. Impact factor: 0.512

“Metal ion-induced H-aggregation of a water-soluble anionic dye Congo red (CR) in Langmuir–Blodgett (LB) film”

Journal of Supramolecular Chemistry 29 (2017), 401-410 Impact factor: 1.820

Miceller effect of surfactant on the aggregation pattern of a fluorescent dye in ultra-thin film”

Journal of Photochemistry & Photobiology A: Chemistry 364 (2018) 696–704. Impact factor: 4.68

Effect of clay in controlling the non-fluorescence H-dimeric states of a cationic dye Nile Blue Chloride (NBC) in hybrid Langmuir–Blodgett (LB) film”

Chemical Physics Letters 691 (2018) 298–306. Impact factor: 2.328

Effect of DNA in controlling the H-dimeric sites of Nile Blue Chloride (NBC) in ultra-thin film”

Materials Today 5 (2018) 2345–2351 Impact factor: 0.653

Metachromasy of a water soluble pthalocyanine dye in the solutions and deposited Langmuir films”

Materials Today 5 (2018) 2339–2344 Impact factor: 0.653

List of International/National Conferences/Symposia Attended:

1). *International Conference on Advanced Nano materials and Nanotechnology 2015 (ICANN 2015). Venue: IIT, Guwahati, Assam.*

(2) *Refresher Course on Thin Films and Nano science at Department of Physics, Tripura University, Agartala, Tripura from 4th May to 18th May, 2015*

(3) *National Conference on recent trend of Research in Physics- (NCRTRP-2015), at Department of Physics, Women’s College, Agartala, Tripura on 23rd and 24th July, 2015*

(4) *National seminar on recent trend of Research in Chemistry- A New Horizon of Hopes at Department of Chemistry, Women’s College, Agartala, Tripura on 8th and 9th August. 2015*

(5) *INUP Hands-on Training Workshop on Nanofabrication Technologies at IIT Bombay, during October 24-28, 2016.*

(6) *International Conference on Material science (ICMS-2017), 16 – 18 February, 2017, Tripura University, Agartala, Tripura*

(7) *One day Symposium on Recent Trends in Physical Sciences, 16th March, 2018, Tripura University, Agartala, Tripura*

(8) *Workshop on Thin Films & Nanomaterials: Principles and Applications, 26-28 March, 2018, Tripura University, Agartala, Tripura*

(9) *Participated in FDP IN HRDC, Savitribai Phule Pune University, Pune from 08-*

12, June, 2020

(10) Participated in certificate program on "Remote Sensing & GIS Technology and Application" Conducted by Indian Institute of Remote Sensing (IIRS), ISRO from 13th June to 1st July, 2020

(11) Participated in FDP on "Open source Tools for Research" from June 08- June 14, 2020

Conducted by MHRD, Ramanujan College, University of Delhi

(12) Participated in FDP on "Managing Online Classes and Co-Creating MOOCs" from July 25- August 10, 2020 Conducted by MHRD, Ramanujan College, University of Delhi

(13) FDP in **Swayam** on the topic "Solar Photovoltaics Fundamentals, Technology And Applications" 2021

(14) One-week training programme on "Contemporary Physics Research" from 5th -11th January 2023 organized by Dept. of Physics, NIT Agartala

Place: Fatikroy