



Faculty Details (Dr. N. Chandrika Devi)

Title	Dr.	First Name	N. Chandrika	Last Name	Devi	Photograph				
Designation	Associate Professor									
Address (Office)	Gargi College, Siri Fort Road, New Delhi, Pin-110049									
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Email	n.chandrika.d@gargi.du.ac.in									
EDUCATIONAL QUALIFICATIONS										
Degree	Institution				Year					
B. Sc. (Hon.) Physics	Miranda House, University of Delhi				1995					
M. Sc. Physics	Miranda House, University of Delhi				1997					
Ph.D. (Physics)	University of Delhi				2003					
CAREER PROFILE										
Before joining Gargi College, I had taught at few colleges of Delhi University on ad-hoc basis. I had been appointed as a permanent faculty member in Physics Department, Gargi College in July. 2007 and has been in this college since then.										
ADMINISTRATIVE ASSIGNMENTS										
1. Co-convenor of 'Quasar' the Physics Society of Gargi College during the academic year 2014-2015. 2. Coordinator of B. Sc. Physical Sciences during the academic years 2015-2016, 2016-2017 and 2017-2018. 3. Teacher-in-Charge of Physics Department, Gargi College for the academic years 2019-2020 and 2020-2021. 4. One of the deputy superintendents of November 2022 to March 2023 semester examination.										
AREAS OF INTEREST / SPECIALIZATION										
Physics										
SUBJECT TAUGHT										
Electro-Magnetic Theory (theory and lab), Elements of Modern Physics (theory and lab), Electricity and Magnetism (theory and lab.), Quantum Mechanics and Atomic Physics (theory and lab), C++ lab., Python lab., Digital Electronics lab., Solid State Physics (theory and Lab.), Physics of Devices and Instruments (Lab), Applied Optics (Lab.), Introduction to Computers (theory), Information Technology (theory), Waves and Optics (theory), SEC- Prospecting E-waste for Sustainability (lab.), Mechanics (lab.).										
RESEARCH GUIDANCE										

REFRESHER COURSE/ORIENTATION PROGRAMME/FACULTY DEVELOPMENT**PROGRAMMES ATTENDED:**

1. Participated in the UGC sponsored Orientation Programme OR-61 at UGC-HRDC : Centre for Professional Development in Higher Education, University Of Delhi, Delhi from October 3, 2009 to October 31, 2009.
2. Participated in the UGC sponsored 3 weeks “Refresher Course in Winter School (Inter-Disciplinary)” at UGC-HRDC : Centre for Professional Development in Higher Education, University Of Delhi, Delhi from Nov. 28, 2017 to Dec. 19, 2017.
3. Participated in the one week faculty development programme entitled “Advancements in Integrated Sciences: Learning & Adaptation for Effective Teaching and Research” jointly organised by Shyam Lal College, University of Delhi, UGC- Human Resource Development Centre, Jamia Millia Islamia and CSIR- Institute of Genomics & Integrative Biology from 10-16 December 2018.
4. Participated in faculty development programme on “ Entrepreneurship, Motivation & Leadership” organised by Internal Quality Assurance Cell (IQAC) of Atma Ram Sanatan Dharma College, University of Delhi in collaboration with National Institute for Entrepreneurship and Small Business Development (NIESBUD) from December 24-30, 2018.
5. Participated in the four weeks Refresher Course in Contemporary Studies (Interdisciplinary) organised by Human Resource Development Centre, J.N.U. during 31-12-2018 to 25-01-2019.
6. Participated in one week certificate course on “ Digital Teaching Techniques” conducted by ICT Academy from 29 Jun 2020 to 04 Jul 2020.
7. Participated in one week online faculty development programme on “ ICT Enabled Teaching Learning” organized by Ministry of Human Resource Development, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching , Teaching Learning Centre, Ramanujan College, University of Delhi and Janki Devi Memorial College, University of Delhi, during September 7-September 13, 2020.
8. Participated 5-day online Faculty Development Programme on “Programming in Python” from 6th-10th Dec., 2021 organised by Kirori Mal College, University of Delhi in collaboration with Mizoram University under the aegis of Pandit Madan Mohan Malviya National Mission on Teachers and Training (PMMNMNTT), Ministry of Education.
9. Attended six days Faculty Development Program on “Research Techniques in Science and Technology” organised by K.R. Mangalam University, Gurugram in collaboration with Gargi College, Delhi University from 18th July 2022 to 23rd July 2022.
10. Two weeks (online) interdisciplinary faculty development program on “Introduction to Python Programming” from 8th Aug. 2022 to 19th Aug. 2022 organised by Delhi Effective Education & Pedagogy Cluster in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi.
11. One week faculty development program on “Advances in Semiconductor and Photonic Devices (ASPD-2024)” conducted by the Department of Physics, Vasavi College of Engineering, Ibrahimbagh, Hyderabad, Telangana, India from 12th to 17th August 2024 on online mode.
12. Faculty Development Program on Density Functional Theory Computations of Advanced Materials (DFT-Advanced) organised by the Centre for Advanced Computational Research, Delhi from 20th-29th August 2025 via online Mode.

PUBLICATIONS PROFILE

Number of publications listed in International Database: 3

- (i) Bulk Viscosity of Strange Quark Matter in Density Dependent Quark Mass Model Journal: *Pramana- Journal of Physics* 54, No. 5 737(2000)
- (ii) Radial Oscillation of Quark Stars in Strong Magnetic Fields Journal: *The Astrophysical Journal* 538, 870 (2000)

(iii) Quasi- Radial Oscillations of Rotating Strange Stars in Strong Magnetic Fields
Journal: Journal of Physics G 28, 2525 (2002)

E CHAPTERS/STUDY MATERIALS

PAPERS PRESENTED IN INTERNATIONAL/ NATIONAL CONFERENCES/SEMINARS/ SYMPOSIA

CONFERENCE/SEMINARS/SYMPCSIA/WEBINARS/PRESENTATIONS/ORGANIZATION

WORKSHOP/TRAINING PROGRAMME ATTENDED

1. Conducted workshop on “Familiarization with Optical Fibers and to measure the Numerical Aperture of a multi-mode fiber” by Dr. Vandna Luthra, Dr. N. Chandrika Devi and Dr. Indu Datt.
2. Participated in the workshop on “Astrophysics, Cosmology and Computation” held in Feb. 2016 at Shivaji College, Delhi University.
3. Conducted one day workshop on “Fourier filtering, optical fiber and UV visible spectroscopy” by Dr. Vandna Luthra, Dr. N. Chandrika Devi, Dr. Nirmala Saini and Mr. Sachin at Gargi college in May 2016.
4. Conducted workshop on “Flavors of interdisciplinary research, UV-visible spectroscopy, interfacing of Physics experiments, Pspice and thin film technology” by Dr. Vandna Luthra, Dr. N. Chandrika Devi, Ms. Anita Singh, Mr. Sachin and Ms. Neha on 18th and 19th July, 2017.
5. Participated in the 1st Undergraduate workshop on “Effective Education for Long Term Sustainable Solutions to the Problems of Air Pollution” held between 2nd-6th August 2021, organized by Delhi Effective Education & Pedagogy Cluster(DEEP-C) –DRIV.
6. Participated in one week Teacher Training Program from 6th May 2024 to 11th May 2024 conducted by Inter-University Accelerator Centre, New Delhi.
7. Participated in five day online workshop on “Functional Materials and Simulation Techniques (FMST 2024)” organized by the Department of Applied Sciences, Indian Institute of Information Technology Allahabad (IIITA) from 21st to 25th October 2024.
8. Attended 10-day Online Workshop on Quantum Espresso held during 8-18th October 2025 Organized by the SIAS Research Center, Kerala.

RESEARCH PROJECTS (MAJOR GRANTS/RESEARCH COLLABORATION)

AWARDS AND DISTINCTIONS

ASSOCIATION WITH PROFESSIONAL BODIES

OTHER ACTIVITIES

