


## Faculty Details proforma for DU College Web-site



Title	Mr.	First Name	Dinesh	Last Name	Kumar	Photograph
<b>Designation</b>	Assistant Professor					
<b>Address</b>	Rz-108-B, Gali No. 23 Main Gopal Nagar, Najafgarh, New Delhi -110043					
<b>Phone No - Office</b>	9311331434, 9311331436					
<b>Residence no.</b>	-----					
<b>Mobile no.</b>	9350182443					
<b>Email/</b>	<a href="mailto:dkumar4@maitreyi.du.ac.in">dkumar4@maitreyi.du.ac.in</a> , <a href="mailto:dineshkumar430@gmail.com">dineshkumar430@gmail.com</a>					
<b>Web-Page</b>	<a href="https://www.maitreyi.ac.in/">https://www.maitreyi.ac.in/</a>					
<b>Educational Qualifications</b>						
<b>Degree</b>	<b>Institution</b>	<b>Year</b>				
B.Sc.(H)Electronics	Sri Aurobindo College, University of Delhi	1995				
M.Sc. Electronics	Department of Electronics, University of Delhi	2000				
PGD in Telecommunication	Hyderabad University	2004				
B.Ed.	M.D. University	2009				
Ph.D.	Department of Electronics, Delhi University	Pursuing				
<b>CAREER PROFILE</b>						
<b>TEACHING EXPERIENCE:</b>						
<p style="margin-left: 40px;">❖ Assistant Professor (Ad Hoc) at <b>Acharya Narendra Dev College</b>, University of Delhi Duration: <b>01<sup>st</sup> September 2016 to 09<sup>th</sup> January 2024.</b></p>						
<b>Subjects taught:</b>						
<ul style="list-style-type: none"> <li>● Applied Physics</li> <li>● Electromagnetic Theory</li> <li>● Basic Circuit Theory and Network Analysis</li> <li>● Electronics Instrumentation</li> </ul>						

- Mathematical Foundation
- ❖ Assistant Professor (Ad Hoc) at **Deen Dayal Upadhyaya College**, University of Delhi  
Duration: **01 January 2013 to May 2015.**

**Subjects taught:**

- Electronics Circuit
- Electronic Instrumentation
- Analog Communication
- Numerical Methods
- Semiconductor Devices
- Network Analysis and Basic Circuit Theory

- ❖ Assistant Professor (Ad Hoc) at **Bhaskaracharya College of Applied Science**, University of Delhi.  
Duration: **July 2012 to Nov 2012**

**Subjects taught:**

- Electronics Instrumentation
- Applied Physics

- ❖ Assistant Professor (Ad Hoc) at **Shivaji College**, University of Delhi  
Duration: **28 February 2011 to 23 May 2012:**

**Subjects taught:**

- Solid State Physics
- Electronics Devices
- Basic Electronics
- Mathematical Physics

**ADMISTRATIVE ASSIGNMENT**

**AREA OF INTRUST / SPECIALIZATION**

- Material Science,
- Nanotechnology

**SUBJECT TAUGHT**

- Solid State Physics
- Electronics Devices
- Basic Electronics
- Electronics Circuit
- Electronic Instrumentation
- Electrical Technology
- Analog Communication
- Numerical Methods
- Semiconductor Devices
- Applied Physics
- Electromagnetic Theory
- Basic Circuit Theory and Network Analysis
- Mathematical Foundation
- Engineering Mathematics

❖ **RESEARCH EXPERIENCE:**

- Area of Research: **Material Science, Nanotechnology**
- Pursuing **Ph.D. from Department of Electronic Science**, Delhi University, South Campus.
- *Research Title: "Synthesis and Characterization of Polymer Nanocomposite Thin Film and Its Application".*

**RESEARCH GUIDANCE**

- ❖ Mentored undergraduate students for the following DBT STAR projects and other projects undertaken by them under **DBT STAR ELITE (Education in a Lively Innovative Training Environment) Summer Internship Research Program** of Acharya Narendra Dev College:

<b>Name of project</b>	<b>Students</b>
● RFID Enabled Attendance System	Aditya Kumar and Gagan, B.Sc. (H) Electronics-III year
● Solar Tracker	Prahlad Prajapat and Ankita Shukla B.Sc. (H) Electronics-II year
● Real Time Passenger Counter	Yash Varshney and Abhishek B.Sc. (H) Electronics-II year

**PUBLICATIONS PROFILE/ CONFERENCE PROCEEDING**

- **Physico - Chemical Modification Induced by 70 MeV Carbon Ions in Alpha Phased Polyvinylidene Fluoride (Alpha PVDF)-Ag (NPs) Composites**, International conference on Advances in Polymeric materials & Human Healthcare, Souvenir-APA-STERMI-2019, p.29-32.

- **Synthesis and Characterization of Nanocomposite thin films of ZnO nanorods with Poly (vinylidene fluoride) Polymer**, Proceedings of International Conference on Materials Science and Spectroscopy (ICMSS-21), **September 22-24, 2021**, p. 29.
- **Synthesis and Characterization of Nanocomposite thin films with different Concentration of Silver Nanoparticles on the Poly (vinylidene fluoride) Polymer**, Proceedings of International Conference on Materials Science and Spectroscopy (ICMSS-21), **September 22-24, 2021**, p. 31.
- **Green synthesis of ZnO nanorods for eco-friendly solar cell during international e-conference on 'Mitigating environmental issues by sustainable approaches (ICMCESA-2022)'** organized by Acharya Narendra Dev College, **February 22-28, 2022**, p.218.

#### CONFERENCE / PRESENTATION /WORKSHOPS

- Successfully completed Two weeks (Online) Interdisciplinary Faculty Development Program on **"Introduction to Python Programming" (8th August-19th August, 2022)** organized by Delhi Effective Education & Pedagogy Cluster in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi.
- Participated in 1 Day Webinar on the topic of **Cyber Security by Techvanto Academy. (7<sup>th</sup> Feb 2022)**.
- Completed One Professional Development Hour by attending Special Public Webinar **February 02, 2022 @ 07:30 pm IST "Making sense of climate change at the local scale"** by **Professor Theodore (Ted) G. Shepherd**, FRS Grantham Professor of Climate Science, Department of Meteorology, University of Reading, U.K.
- Completed One Professional Development Hour by attending Special Public Webinar **February 01, 2022 @ 07:30 pm IST "Charge carrier dynamics in organic and perovskite solar cells"** by **Professor James Durrant** Department of Chemistry, Centre for Processable Electronics, Imperial College London, London SW7 2AZ, U.K. and SPECIFIC IKC, College of Engineering, University of Swansea, Swansea, U.K.
- Attended the following **"Accelerate your research using Elsevier's Scopus"** at University of Delhi, on **Friday 11 February, 2022** Presented by aishwarya noyal Customer Consultant.
- Completed One Professional Development Hour by attending the IEEE Electron Device Society (EDS) Distinguished Lecture (DL) on **"Evolution of Semiconductor Devices Enabling Smart Environments and Integrated Ecosystems"** Delivered by **Professor Samar Saha** 2016-2017 President of the IEEE Electron Devices Society (EDS) and currently serving as the Senior Past President Held On **August 23, 2022 @ 09:00 pm IST** The DL was part of Virtual Mini Colloquia (MQ) on "75th Anniversary of Transistor Invention" Organized by IEEE EDS Delhi Chapter (New Delhi, India).
- Completed One Professional Development Hour by attending the IEEE Electron Device Society (EDS) Distinguished Lecture (DL) on **"Memory Modeling for Neuromorphic Computing"** Delivered by **Professor Mansun Chan Alex Wong Siu Wah Gigi Wong Fook Chi** Professor of Engineering and Chair Professor Dept. of ECE, Hong Kong University of Science & Technology, Clear Water Bay, Kowloon, Hong Kong Held **On August 24, 2022 @ 06:00 pm IST** The DL was part of Virtual Mini Colloquia (MQ) on "75th Anniversary of Transistor Invention" Organized by IEEE EDS Delhi Chapter (New Delhi, India).

- Completed One Professional Development Hour by attending the IEEE Electron Device Society (EDS) **Distinguished Lecture (DL) on SOI nano-devices: Novel concepts and dimensional effects Delivered by Professor Sorin Cristoloveanu** Director of Research CNRS & Editor, Solid-State Electronics IMEP-INP Grenoble MINATEC - 3, Parvis Louis Neel, Grenoble Cedex 1, France Held On **August 25, 2022 @ 06:00 pm IST** The DL was part of Virtual Mini Colloquia (MQ) on "75th Anniversary of Transistor Invention" Organized by IEEE EDS Delhi Chapter (New Delhi, India).
- Completed One Professional Development Hour by attending the IEEE Electron Device Society (EDS) **Distinguished Lecture (DL) on The Discovery of Third Breakdown: Its physical origin and Applications on Further Development of Transistor and Memory in High-k Metal-gate CMOS Generations** Delivered by **Steve S. Chung Chair Professor, National Yang Ming Chiao Tung University** Held On **August 26, 2022 @ 06:00 pm IST** The DL was part of Virtual Mini Colloquia (MQ) on "75th Anniversary of Transistor Invention" Organized by IEEE EDS Delhi Chapter (New Delhi, India).
- Completed One Professional Development Hour by attending the IEEE Electron Device Society (EDS) **Distinguished Lecture (DL) on Transistor Evolution From Micro to Nano Era** Delivered by **Prof. Dr. Joao Antonio Martino Professor at University of Sao Paulo, Brazil** Distinguished Lecturer - IEEE Electron Device Society (EDS), Chair of IEEE EDS South Brazil Chapter Held On **August 27, 2022 @ 06:00 pm IST** The DL was part of Virtual Mini Colloquia (MQ) on "75th Anniversary of Transistor Invention" Organized by IEEE EDS Delhi Chapter (New Delhi, India).
- Completed One Professional Development Hour by attending Special Public Webinar February 05, 2022 @ 07:30 pm IST **Graphene and Gallium Nitride: from basic science to manufacturing devices Prof Sir Colin Humphreys CBE, FEng, FRS, BSc, MA, PhD, Hon DSC, FIMMM, FinstP. FCGI, Hon FRMS Queen Mary University of London.**
- Completed One Professional Development Hour by attending Special Public Webinar **February 24, 2022 @ 06:30 pm IST "Cosmic Dust in Planetary Atmospheres"** by Professor John Plane, FRS Professor of Atmospheric Chemistry, Faculty of Engineering and Physical Sciences, School of Chemistry, University of Leeds.
- Attending the 2022 IEEE SPS Seasonal School on "**AI for Optimization in Signal Processing (AIOSP)**" organized by IEEE Signal Processing Society Delhi Chapter from **11 July 2022 to 15 July 2022.**
- Successfully completed One Week Online National Faculty Development Program "**Developing Positive Mental Health for Teaching- Learning Environment**"(25th Jan to 31st Jan 2022) organized by Guru Angad Dev Teaching Learning Centre, a Centre under the Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education, SGTB Khalsa College, University of Delhi. This was conducted in online mode with one week's involvement in a flexible mode. This online FDP is equivalent to one week face to face FDP. The one week's involvement included attendance during live/recorded sessions, hands on activities, submission of quizzes, assignments and project. The participant has obtained Grade "**A+**" as required for promotion under CAS of UGC and AICTE.
- Participated in One-Day Interdisciplinary National Workshop entitled "**WELLNESS AND LEARNING: A Holistic Approach Towards Leading a Meaningful Life**" organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malviya

National Mission on Teachers and Teaching (PMMMNMTT) of Ministry of Education held on **12th February 2022**.

- Delivered Poster presentation on the paper titled **“Green synthesis of ZnO nanorods for eco-friendly solar cell”** during international e-conference on 'Mitigating environmental issues by sustainable approaches (ICMCESA-2022)' organized by Acharya Narendra Dev College from under the aegis of IQAC and DBT Star College Scheme.
- Participated and presented a research paper Oral in the **"International Conference on Materials Science and Spectroscopy"** organized by School of Science, Maharishi University of Information Technology, Lucknow, Uttar Pradesh, India during **September 22-24, 2021**.
- Successfully completed One week (Online) Interdisciplinary Faculty Development Program on **“Roadmap for Building New India with New Education Policy” (21st July – 25th July 2021)** organized by IQAC, Hansraj College in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi.
- Successfully completed One week (Online) Interdisciplinary Faculty Development Program on **“Basics of Research” (18th June – 24th June, 2021)** organized by Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi in collaboration with PARAMARSH, UGC SCHEME.
- Participated at **IEEE SPS AIVA 2021 (Artificial Intelligence for Visual Applications)** held from **24th June 2021, and 28th June 2021**, organized by **IEEE Signal Processing Society** Delhi Chapter and **Indraprastha Institute of Information Technology-Delhi (IIIT-D)**, India in collaboration with 10 SPS Chapters of the IEEE India Council and the SBILab of IIIT-D.
- Participated in One Day Online National Webinar entitled **"Implementation of Academic Bank of Credits"** organized by **Guru Angad Dev Teaching Learning Centre**, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT) of Ministry of Education on **10th July 2021**. (This is equivalent to a regular National Webinar).
- Participated in the Faculty Development Program: National Webinar entitled **"ICT Enabled Higher Education in India: Challenges and Opportunities"** organized by **Guru Angad Dev Teaching Learning Centre** SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD held on **April 15, 2020**. (This is equivalent to a regular National Seminar).
- Successfully completed One Week Online National Faculty Development Program **“Digital Skills for Teachers” (10<sup>th</sup> Nov to 4<sup>th</sup> Dec 2021)** organized by **Guru Angad Dev Teaching Learning Centre**, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT) of Ministry of Education. This was conducted in online mode with one week’s involvement in a flexible mode. This online FDP is equivalent to one week face to face FDP. The one week’s involvement included attendance during live/recorded sessions, hands on activities, submission of quizzes, assignments and project. The participant has obtained GRADE **“A”** as required for promotion under CAS of UGC and AICTE.
- Participated in Online Webinar - **“Nanomaterials for Environmental Applications”** on **20/06/2020**. Accredited by NAAC and NBA, affiliated to Anna University and Approved by AICTE on **20/06/2020**.

- Three Days Online workshop on **"THE DIGITAL TURN IN EDUCATION: A NEW PATTERN IN TEACHING LEARNING PRACTICES"** 20-06-2020 22-06-2020 organized by ARSD College, University of Delhi, Dhaulakuan, New Delhi.
- One Week Online Faculty Development Program on **"RESEARCH METHODOLOGY: TOOLS & TECHNIQUES"** under Pandit Madan Mohan Malviya National Mission on Teachers and Training Scheme of MHRD, Govt. of India 05-06-2020 11-06-2020 ARSD College, University of Delhi, Dhaulakuan, New Delhi.
- One-week online Certificate Course on DIGITAL TEACHING TECHNIQUES 29-06-2020 04-07-2020 ICT Academy.
- Online Webinar **"Nanomaterials for Environmental Applications"** 20-06-2020 KINGS ENGINEERING COLLEGE Chennai-Bangalore Highway, Irungattukottai, Sriperumbudur, Chennai-602 117.
- Participated in 2 Day Faculty Development Program on **"Emotional Intelligence"** conducted by ICT Academy on **01-04-2019 to 02-04-2019** at Acharya Narendra Dev College, New Delhi.
- Participated in International Conference on Advances in Polymeric Materials & Human Healthcare (16-18 Oct, 2019|Goa, India) as Delegate & Presented **Oral Talk**, titled: **Physico-Chemical Modifications Induced by 70 MeV Carbon Ions in Alpha Phased polyvinylidene Fluoride (Alpha PVDF) -Ag (NPs) Composites.**
- One Day International Webinar on **CHIP DESIGN FLOW - MANAGING MILLIONS OF DEVICES FOR SILICON SUCCESS (16th Sep, 2020)** Organized by Department of Electronics, Prabhu Jagat Bandhu College, Howrah, West Bengal, India.
- Participated in one day workshop on **"Creating courses using Open Education Resources"** on 17<sup>th</sup> March 2015 Organized by **IQAC DDU College University of Delhi.**

#### AWARDS and DISTINCTION

- ❖ **UGC-NET(LS)** Qualified in **April 2007.**

#### ASSOCIATION WITH PROFESSIONAL BODIES

- **Convener of three days conclave on "Leadership by Indian Women: The precursors of pioneering change in Indian Society"(24-26 nov.2022) held at National Institute of Health and Family Welfare Govt. of India Munirka, New Delhi-110067**

Signature of Faculty