CURRICULUM VITAE

DR. SANJEEV KUMAR
Assistant Professor (A L-11)
Date of Joining 18.08.2010

DEPARTMENT OF PHYSICS
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OBJECTIVE

To establish myself as a distinguished and renown personality in the field of teaching and research & development. To take challenging opportunity that offers the responsibility and development.

EDUCATIONAL QUALIFICATIONS

Examinations/Degree	Board/University
M.Sc. Physics	C. C. S. University, Campus Meerut
M.Phil. Physics	C. C. S. University, Campus Meerut
Ph. D. Physics	C. C. S. University, Meerut

ACADEMIC/EDUCATIONAL RECORD

- Alumnus of C.C.S. University Campus Meerut, UP
- Alumnus of CSIR-NPL, New Delhi
- Alumnus of JNU, New Delhi
- Good Academic Record

EXPERIENCE: TEACHING/RESEARCH/ADMINISTRATION

- 15 Years Teaching Experience for UG in University of Delhi, GDC, UP and R. K. (PG) College, Shamli, UP

- Approx 12 Years Experience for PG Level at R. K. (PG) College, Shamli, UP
- Academic Administration at R. K. (PG) College, Shamli, UP
- NSS Programme Officer at R. K. (PG) College, Shamli, UP from 15.12.2014 to 19.07.2019
- Research and Development experience in CSIR-NPL , NewDelhi

TEACHING/RESEARCH AT

- Worked as Permanent Lecturer in the Department of Physics, Mahamaya Govt. Degree College, Kaushambi, UP selected by Public Service Commission (PCS) of Uttar Pradesh from 11.03.2010 to 17.08.2010
- Worked as Ad-hoc Lecturer in the Department of Electronics, Maharaja Agrasen College, University of Delhi., 2010
- Worked as Ad-hoc Lecturer in the Department of Physics, Miranda House, North Campus, University of Delhi., 2009
- Worked as Ad-hoc Lecturer in the Department of Physics, Ramjas College, North Campus, University of Delhi., 2009
- Worked as Guest Lecturer in the Department of Physics, Dayal Singh College, University of Delhi., 2008
- Worked as Guest Lecturer in the Department of Physics, Kalindi College, University of Delhi., 2009
- Worked as Ad-hoc Lecturer in the Department of Physics & Electronics, Rajdhani College, University of Delhi., 2007
- Worked as Research Intern in Advanced Carbon Products and Metrology Section, Advanced Materials and Devices Metrology Division, CSIR-National Physical Laboratory, New Delhi., 2007
- Worked as Research Scholar in Advanced Carbon Products, CSIR-NPL, New Delhi from 12.05.2005 to 15 .04. 2007

HONORS /AWARDS/PROFESSIONAL RECOGNITIONS

- CSIR-NPL, Diamond Jubilee Research Intern (DJRI) Award , 2007
- Excellent Reviewer Award for outstanding contribution by "Asian Journal of Physical and Chemical Sciences", 2021

UTTAR PRADESH STATE ADMINISTRATION

- Worked as Magistrate - FST in Legislative Assembly Election, 2022
- Worked as Sector Magistrate in Tristariya Panchayat General Election, 2021
- Worked as Sector Magistrate in Panchayat General Election, 2015

MEMBERS/ POSITIONS HELD IN PROFESSIONAL SOCIETIES

- Indian Carbon Society (ICS), CSIR-NPL, Life Membership No-455, New Delhi, INDIA
- American Chemical Society (ACS), Membership No. 3230016, USA

MEMBERHIP IN NATIONAL/INTERNATIONAL JOURNALS

- Member of Editorial Board of National Journal of Environment and Scientific Research (NJESR)

CONFERENCES/SEMINARS/WEBINARS/SHORT TERM COURSES ORGANIZED: 02

- Seminar on "Role of Mahatma Jyotiba Phule in the Field of Social Reform" organized as Organising Secretary at R. K. (PG) College, Shamli-247776, UP on April 11, 2022.
- National Webinar on National Education Policy (NEP) 2020: Planning for UG and PG Programmes organized as Convener at R. K. (PG) College, Shamli-247776, UP in association with NEEV – a social education initiative of IIT alumni on August 30, 2020.

EDUCATIONAL VISIT CONDUCTED: 01

- Conducted Educational Visit of M.Sc. Physics Students at CSIR-NPL, New Delhi on 18.01.2011

OP/RC/STC/FDP/ TRAINING PROGRAMME

- Attended Workshop in Science Leadership from Central University of Punjab , Bhatinda, India from 22.06.2020 to 28.06.2020.
- Attended Faculty Development Programme (FDP) on Technical Skill Development: Need of the Hour from SMP Govt. Girls (P.G.) College, Meerut, U.P., India from 23.05.2020 to 27.05.2020.
- Attended Refresher Course (RC) on Physical Sciences and Nano Sciences from UGC-HRDC, Jawaharlal Nehru University (JNU), New Delhi from 18.11.2019 to 30.11.2019.
- Attended Refresher Course (RC) on IT from UGC-HRDC, Kurukshetra University (KU), Kurukshetra from 04.11.2019 to 16.11.2019.
- Attended Refresher Course (RC) on ICT from UGC-HRDC, Himachal Pradesh University (HPU), Shimla from 07.07.2014 to 26.07.2014.
- Attended Orientation Programme (OP) from UGC-HRDC, Punjab University (PU), Chandigarh from 15.02.2014 to 14.03.2014.

AREA OF SPECIALIZATION

- Master of Science (M.Sc.): "**ELECTRONICS**"
- Master of Philosophy (M.Phil.): **"COLLISION OF ELECTRONS WITH Ne-ATOMS"** (Quantum Mechanics)
- Doctor of Philosophy (Ph.D.): "**PREPARATION AND CHARACTERIZATION OF SOME POLYMERIC PHOTOLUMINESCENT NANOFIBERS**" (Physics of Nanomaterials)

FIELD OF RESEARCH INTEREST

- Photoluminescence Nanofibers (PLNs),
- Electrospinning
- Scale up of process of PLNs by Electrospinning Technique
- Electrospun (Espun) Nanofibers Fabrication
- Advanced Nanomaterials Synthesis
- Carbon Nanotubes (CNTs) Synthesis
- Advanced Carbon Products
- Photoluminescence (PL)
- Polymers
- Simulation and Modelling

PUBLICATIONS IN INTERNATIONAL AND NATIONAL REFEREED JOURNALS

1. ***Sanjeev Kumar***, Garima Jain, Kuldeep Kumar, Ashish Gupta, B.P. Singh, S. R. Dhakate, J S Tawle and P D Sahare, " Stress Induced Structural Phase Transition in Polystyrene/ $NaYF_4$: Eu^{3+} Photoluminescent Electrospun Nanofibers" published in ***Journal of Nanomaterials,*** Vol. 2022, Article ID 2173629, p.p.1-10, **2022**. **https://doi.org/10.1155/2022/2173629**
2. ***Sanjeev Kumar***, Garima Jain, Kuldeep Kumar, Ashish Gupta, B.P. Singh and S. R. Dhakate, "A facile fabrication of poly(methyl methacrylate)/α-$NaYF_4$:Eu^{3+} tunable electrospun photoluminescent nanofibers" published in ***Applied Nanoscience,*** **2020,** 10, 3857-3864. **https://doi.org/10.1007/s13204-020-01499-4**
3. ***Sanjeev Kumar***, Garima Jain, Kuldeep Kumar, Ashish Gupta, B.P. Singh and S. R. Dhakate, "A novel fabrication of electrospun polyacrylonitrile/$NaYF_4$: Eu^{+3} light emitting nanofibers" published in ***RSC Advances***, **2020**, 10, 24855-24861. **DOI: 10.1039/d0ra03984e**
4. ***Sanjeev Kumar***, Garima Jain, B.P. Singh and S. R. Dhakate, "Tunable Photoluminescence of Polyvnyl Alcohol Electrospun Nanofibers by Doping of $NaYF_4$: Eu^{+3} Nanophosphor" published in ***Journal of Nanomaterials,*** Vol. 2020, Article ID 1023589, p.p.1-8, **2020**. **https://doi.org/10.1155/2020/1023589**
5. ***Sanjeev Kumar*** and Garima Jain "Advanced Carbon Materials and their Applications" published in ***Journal of Applied Physics***, Vol. 8 No. 2, **2017**, p.p. 63-70. **ISSN: 0976-903X**
6. ***Sanjeev Kumar***, S. R. Dhakate, B.P. Singh "Synthesis of Multi-walled Carbon Nanotubes (MWCNTs) from Turpentine oil" published by VBRI Press in ***International Conference on Material science and Technology*** proceeding **2016**, p.p. 35 **ISBN: 978-91-8825-01-2**
7. ***Sanjeev Kumar***, S. R. Dhakate, B.P. Singh and Garima Jain "Synthesis of Multi-walled Carbon Nanotubes (MWCNTs) by Chemical Vapour Deposition (CVD) Technique" published in ***Journal of Applied Chemistry***, Vol. 5 No. 2, **2014**, p.p. 76-78. **ISSN: 0976-7355**
8. ***Sanjeev Kumar***, Chhotey Lal and Bhanu Pratap Singh "Estimation of Mechanical Properties of CNTs Using Molecular Mechanics based Finite Element Method: A Review" ***Rev. Adv. Mater. Sci.***14, **2007,** 14-34.
9. ***Sanjeev Kumar***, Garima Jain, Kuldeep Kumar, B.P. Singh and S. R. Dhakate, " A Review on Polymeric Photoluminescent Nanofibers: Electrospinning, Process Parameters and Solid- State Lighting Application" is communicated.
10. ***Sanjeev Kumar***, Kuldeep Kumar, B.P. Singh and S. R. Dhakate, " Luminescence Properties of ZnO:Eu^{3+} nanophosphor embedded poly Vinyl Alcohol Electrospun Nanofibers" is communicated.

PRESENTATION IN INTERNATIONAL/ NATIONAL CONFERENCE/WORKSHOP

1. ***Sanjeev Kumar*** participated in ***"Indian Patent (IP) Awareness Training/Pragram"*** under **National Intellectual Properties Awareness Mission** on Februry 19, **2022** organized by Intellectual Property Office, India.
2. ***Sanjeev Kumar*** participated in ***"International Special Public Webinar on Testing the massive Black Hole Paradigmin the Center of Our Glaxy"*** **A 40- Year Joourney Professor Reinhard Genzel, Nobel Laureate Physics 2020, Max Plank Institute for Extraterrestrial Physics, Garching** on January 12, **2022** jointly

organized by The National Academy of Sciences India-Delhi Chapter and Deen Dayal Upadhyaya College (University of Delhi) under the aegis of DBT Star College Program, Delhi, India.

3. ***Sanjeev Kumar*** participated in ***"International Symposium on History and Future of Transistor"*** on December 23-30th, **2021** jointly organized by The National Academy of Sciences India-Delhi Chapter, Deen Dayal Upadhyaya College (University of Delhi) under the aegis of DBT Star College Program IEEE Electron Device Society (EDS) Delhi Chapter, India.
4. ***Sanjeev Kumar*** participated in ***"International Workshop on Strategic Cooperation in Higher Education in Pandemic Context: Experiences, Challenges, and Perspectives"*** on December 9th, **2021** organized by Romania Ovidius University of Constanta, Romania.
5. ***Sanjeev Kumar*** participated in "***National e-Workshop on Carbon Materials for Energy Applications"*** on December 13th, **2021** organized by Indian Carbon Society (ICS) in collaboration with CSIR-National Physical Laboratory, New Delhi, India.
6. ***Sanjeev Kumar***, Garima Jain, B. P. Singh and S. R. Dhakate "Brilliant Red Light Emission from Polystyrene/ $NaYF_4$: Eu^{+3} Electrospun Beaded Nanofibers" presented in "***International Webinar (e-Conference) on Prospective of Interdisciplinary Research in Science and Technology in the Present Scenario"*** from May 15-16th, **2020** at Department of Physics, C.C.S. University, Meerut, U. P., India.
7. ***Sanjeev Kumar***, Garima Jain and S. R. Dhakate "Fabrication of some polymeric photoluminescent nanofibers by Electrospinning" presented in "***National Conference on Carbon Materials-2019 (CCM2019)"*** from November 20-22nd, **2019** at India Habitat Centre, Silver Oak, New Delhi, India.
8. ***Sanjeev Kumar,*** Garima Jain and S. R. Dhakate "Preparation of polymeric photoluminescent nanofibers by doping of $NaYF_4$: Eu nanophosphor with polystyrene (PS) via Electrospinning" presented in ***Young Scientist Award Category in 24th International Conference of International Academy of Physical Sciences (CONIAPS-XXIV)*** on August 9-11th, **2019** at C.C.S. University, Meerut, UP, India.
9. ***Sanjeev Kumar***, Garima Jain and S. R. Dhakate **"**Fabrication of photoluminescence polymeric nanofibers by doping of $NaYF_4$: Eu nanophosphor with poly vinyl alcohol (PVA) via Electrospinning" presented in "***2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFNSEM)"*** on May 24-26th, **2019** at, Kumaun University, Nainital, Uttarakhand, India.
10. ***Sanjeev Kumar,*** Garima Jain and S. R. Dhakate **"**Synthesis of tunable photoluminescence electrospun polymeric nanofibers mat" presented in "***International Conference on Materials for Energy Applications (ICME)*** on December 6-8th, **2018** at S S Jain Subodh PG (Autonomus) College, Jaipur, Rajasthan India.
11. ***Sanjeev Kumar***, Garima Jain, S. R. Dhakate and P D Sahare **"**Synthesis of photoluminescencent polymeric nanofibers via electrospinning tecchnique" presented in "***Indo-Japan Workshop 2018 on Highly Conductive CFRP Using Conductive Polymers and Nanomaterials for Structural Application"*** on November 26-28th, **2018** at CSIR-National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi-12, India.
12. ***Sanjeev Kumar,*** Garima Jain and S. R. Dhakate **"**Preparation of photoluminescent polymeric nanofibers by using electrospinning technique" presented in "***National Conference on Innovation and Technology for Rural India (ITRI-2018)"*** on November 15-16th, **2018** at OSIR, Bah, Agra, Uttar Pradesh, India.

13. ***Sanjeev Kumar*** participated in "***National Workshop on Materials Metrology for Sustainable Society-2018 (NWMMSS 2018)"*** at National Physical Laboratory, New Delhi on November 1-2nd, **2018** organized by CSIR-National Physical Laboratory and Metrology Society of India (MSI), Dr. K. S. Krishnan Marg, New Delhi-12, India.
14. ***Sanjeev Kumar***, S. R. Dhakate, B.P. Singh and Garima Jain **"**Photoluminescent nanofibers (PLNs) of polyvinyl alcohol (PVA) by electrospinning technique" presented in "***National Conference on Recent Developments in Science & Technology in Modern Era (RDSTME-2017)"*** on December 15th, **2017** at Arya (PG) College Panipat, Hariyana, India. **ISBN : 978-93-838617-5-0**
15. ***Sanjeev Kumar,*** S. R. Dhakate, B.P. Singh and Garima Jain "A review on futurestic applications of Carbon Materials" presented in "***National Workshop on Advanced Carbon Materials for Strategic Application"*** on April 28th, **2017** at National Physical Laboratory New Delhi, India.
16. ***Sanjeev Kumar,*** S. R. Dhakate, B.P. Singh and Garima Jain "Carbon nanotubes (CNTs) prepared from different precursor materials by Chemical Vapor Deposition Technique (CVD)" presented in "***5th National Conference on Nanoscience and Instrumentation Technology"*** from March 5-6th, **2017** at National Institute of Technology (NIT) Kurukshtra, Hariyana, India.
17. ***Sanjeev Kumar*** "Applications of carbon products: A review" presented in "***National Conference on Emerging Trends in Science & Technology (ETST-2017)"*** on February 18th, **2017** at Arya (PG) College Panipat, Hariyana India.
18. ***Sanjeev Kumar***, S. R. Dhakate, B.P. Singh and Garima Jain "Synthesis of multiwalled carbon nanotubes (MWCNTs) from coconut oil" presented in "***National Seminar on Recent Innovative Changes in Science and Technology"*** on 29th March, **2016** at DAV PG College Muzaffarnagar, UP, India.
19. ***Sanjeev Kumar,*** S. R. Dhakate, B.P. Singh "Synthesis of Multi-walled Carbon Nanotubes (MWCNTs) from Turpentine oil" presened in "***International Conference on Materials Science Technology (ICMTech)"*** from March 1- 4th, **2016**, at the Conference Centre, University of Delhi, Delhi, India.
20. ***Sanjeev Kumar***, S. R. Dhakate, B.P. Singh and Garima Jain "A Review on Electrospun Photoluminiscent Nanofibers (PLNs)" in "***National Conference on Recent Advancements in Science & Technology (RAST)"*** from February 27- 28th, **2016** at Arya (PG) College Panipat, Hariyana, India.
21. ***Sanjeev Kumar,*** S. R. Dhakate, B.P. Singh and Garima Jain "Electrospun Photoluminiscent Nanofibers (PLNS) for Solid State Lighting: A Review" presented in "***National Conference on Carbon Materials (NCCM)"*** from November 26- 28th **2015** at India International Centre, Multipurpose Hall, Maxmullar Marg, New Delhi, India.
22. ***Sanjeev Kumar***, S. R. Dhakate, B.P. Singh "Synthesis of Multi-walled Carbon Nanotubes (MWCNTs) from Jatropha oil (Biodiesel)" presented in "***National Conference on Carbon Materials for Energy Application"*** from October 15-16th, **2015** at National Physical Laboratory New Delhi, India.
23. ***Sanjeev Kumar***, S. R. Dhakate, B.P. Singh and Garima Jain "Synthesis of Single-walled Carbon Nanotubes (SWNTs) by Arc-discharge Technique" presented in "***3rd National Conference on Nanoscience and Instrumentation Technology (NCNIT)"*** from June 6-7th, **2015** at National Institute of Technology (NIT) Kurukshtra, Hariyana, India.
24. ***Sanjeev Kumar***, S. R. Dhakate, B.P. Singh and Garima Jain "Synthesis of Multi-wlled Carbon Nanotubes (MWCNTs) by Chemical Vapour Deposition (CVD) Technique"

presented in "***National Conference on Future Perspectives of Science & Technology in Society and Governance (FPSTSG)"*** from November 29-30th, **2014** organised by SSV College, Hapur, UP, India.

25. ***Sanjeev Kumar***, S. R. Dhakate, B.P. Singh, Garima Jain and M C Jain "Synthesis of Carbon Nanotubes (CNTs) by Chemical Vapour Deposition (CVD) and Arc Discharge technique" presented in "***National Seminar on Recent Advances in Condensed Matter Physics"*** from March 19-20th, **2013** at DAV College, Muzaffarnagar, UP, India.
26. ***Sanjeev Kumar*** participated in "***National Seminar on Role of Ion in Materials Science and Acquaintance programme on Ion Beam Facilities"*** on September 20th, **2013**, jointly organized by IUAC New Delhi and Department of Physics, C. C. S University Meerut, UP, India.
27. ***Sanjeev Kumar*** participated in *"**International Conference on Nanomaterials and Nanotechnology (ICNANO)"*** from December 18-21st, **2011** at University of Delhi, Delhi, India.
28. ***Sanjeev Kumar*** participated in "***National Seminar on "Brosil Man Singh Survismeter an Advance Instrument to Measure the Physical Properties of Solution"*** on December 11th, **2011** at DAV College Muzaffarnagar, UP, India.
29. ***Sanjeev Kumar*** participated in ***"National Symposium on Indian Physics and Mega Projects: Research on the Frontiers"*** on February 2-3th, **2009** organized by DS Kothari Center for Research and Innovation in Science Education Miranda House, University of Delhi, India.
30. Chhotey Lal, ***Sanjeev Kumar*****,** Anil Kumar and Tejendra Kumar Gupta, "Studies on Carbon Nanotubes-Polyanline based composites" presented in "***XXIX Annual Meeting of Electron Microcope Society of India (EMSI)"*** from November 26-28th, **2007** at University of Delhi, Delhi, India.
31. ***Sanjeev Kumar***, Chhotey Lal and Bhanu Pratap Singh, "Finite Element Modeling of Carbon Nanotubes A Review" presented in "***18th Annual General Meeting (AGM), Material Research Society of India (MRSI)"*** from February 12-14th, **2007** at National Physical Laboratory, New Delhi, India.
32. Chhotey Lal**,** ***Sanjeev Kumar*** and Bhanu Pratap Singh,"Modeling Approach for Single Walled carbon Nanotubes (SWNTs) Studies" presented in "***National Conference on Indo Carbon"*** from November 9-10th, **2006** at HEG, Bhopal, India.

Date: 20. 04.2022 **Place: Shamli** **Signature:**