

Dr. ARUN KUMAR

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Date of Birth: 27.09.1985
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ACADEMIC BACKGROUND

- **28th Sept, 2018 – To date: Assistant Professor**, Department of Physics, J.C. Bose University of Science and Technology YMCA, Faridabad, Haryana-121006, India.
- **1st Aug, 2017 – 27th Sept, 2018: Temporary Faculty**, School of Materials Science and Technology, National Institute of Technology Kurukshetra-136119, India.
- **10th Aug, 2016 – 31st July, 2017: Institute Post-Doctoral fellow**, Department of Materials Science and Engineering, Indian Institute of Technology Kanpur-208016, India.
- **7th Aug, 2015 - 9th Aug, 2016: Assistant Professor (on contract)**, Department of Physics, Central University of Haryana-123029, India.
- **1st Jan, 2014 - 4th Aug, 2015: Post Doctoral fellow**, Department of Chemistry, Indian Institute of Technology Kanpur-208016, India.
- **2010-2013: Doctoral (PhD)** from Department of Materials Science and Engineering, Indian Institute of Technology Kanpur-208016, India. The degree was completed with **12 international refereed journal papers, 1 conference proceeding paper and 1 book (CRC press) chapter**. The thesis was submitted on **27th December, 2013** and the degree was awarded on **18th June, 2014**.
- **2008-2010: M.Tech.** from Department of Materials Science and Engineering, Indian Institute of Technology Kanpur-208016, India. The degree was completed with **CPI 8.33** and **3 international refereed journal papers**.
- **2006-2008: M.Sc.** (Physics) from Department of Physics, Kurukshetra University Kurukshetra, Haryana -136119, India. I got **2nd** position in Physics Department with **79%** marks. I have cleared **CSIR-NET (2007; Roll No. - 500978), GATE-2008 (AIR-54) and JEST-2008 (AIR-152)**.
- **2003-2006: B.Sc.** (Physics, Chemistry, Maths) from University College, Kurukshetra University Kurukshetra, Haryana -136119, with **83%** marks.
- **2003: Class-XII** from CBSE Board with **72%** marks.
- **2001: Class-X** from CBSE Board with **78%** marks.

DOCTORAL THESIS (DISSERTATION) DETAILS

Institute: Indian Institute of Technology Kanpur

Topic: "Finite Element Simulations of Coherent Nanostructures"

Date of Completion: 27th December, 2013

Thesis Supervisor: Prof. Anandh Subramaniam, Department of Materials Science and Engineering, Indian Institute of Technology Kanpur-208016, India. (<http://home.iitk.ac.in/~anandh/>)

RESEARCH GUIDANCE

- No. of Students completed Ph.D. Degree: **02**
- No. of Students submitted Ph.D. Thesis: **02**
- No. of Students pursuing Ph.D. Degree: **01**

BROAD AREAS OF RESEARCH INTEREST

- Experimental and computational studies of Polymer-Matrix Composites for application in Energy Harvesting, Dye-degradation, Sensors.
- Multiscale computational analysis of structures (bulk/surface) and properties of materials (spanning nanoscale to macroscale).
- Computational analysis of Human AURA.

RESEARCH SKILLS

Experimental:

- Scanning Electron Microscope (SEM)
- UV-Visible Spectroscopy
- FTIR Spectroscopy

Computational:

- ABAQUS (Finite Element Method Simulation based commercial software)
- GAUSSIAN
- PWscf (for density functional (DFT) simulations)
- GULP
- Matlab

RESEARCH EXPERIENCES

- Worked as Institute Post-doctoral fellow in Department of Materials Science and Engineering, Indian Institute of Technology, Kanpur-208016, India.
- Worked as Post-doctoral fellow in a project funded by BOEING, USA in Department of Chemistry, Indian Institute of Technology, Kanpur-208016, India.
- Worked on DRDO project "**Computational Analysis of Epitaxial Systems and Devices**" during PhD from Department of Materials Science and Engineering, Indian Institute of Technology Kanpur-208016, India.
- Worked on "**Finite Element Simulation of Coherent Nanostructures**" during my PhD from Department of Materials and Metallurgical Engineering, Indian Institute of Technology Kanpur-208016, India.
- Worked on "**Simulation of Coherent Nanostructures using Finite Element Method**" during my M.Tech from Department of Materials and Metallurgical Engineering, Indian Institute of Technology Kanpur-208016, India.

TEACHING EXPERIENCES

- Working (from 28th Sept, 2018 – till today) as Assistant Professor in Department of Physics, J.C. Bose University of Science and Technology YMCA, Faridabad, Haryana.
- Worked (from 1th Aug, 2017 – 27th Sept, 2018) as Temporary Faculty in School of Material Science and Technology, National Institute of Technology, Kurukshetra, Haryana.
- Worked (from 7th Aug, 2015 – 9th Aug, 2016) as Assistant Professor (Contract) in Department of Physics, Central University of Haryana, Mahendergarh, Haryana.
- Teaching Associate in an undergraduate lab “Nature and Properties of Materials” (2 Semesters).
- Teaching Associate in an undergraduate lab “TA201 (Engineering Materials lab)” (2 Semesters).
- Teaching Associate in a PG course “X-ray crystallography” (1 Semester).

RESEARCH PUBLICATIONS

Refereed Journal Publications

1. “Tuning the Optical Properties of Polyvinylidene Fluoride Nanocomposite Films Reinforced with Anatase Phase Titanium Oxide for Optoelectronic Applications”
Krishna Tewatia, Anuradha Sharma, Arun Kumar, Sridharbabu Yarramaneni, Ravi P Srivastava, *ECS Journal of Solid State Science and Technology*, 14(5), p.053005, 2025.
2. “Synergetic Effect of TiO₂ Toward Mechanically and Thermally Stable Hybrid Epoxy Nanocomposites: A Review”

Pooja Singh, Swati Sharma, Kaushal Kumar, Sohan Lal, Ganesh Iyer, Arun Kumar, *Polymer-Plastics Technology and Materials*, 64(5), p.633-660, 2025.

3. "A comparative study on mechanical properties of yttrium oxide and reduced graphene oxide reinforced epoxy nanocomposites" Pooja Singh, Swati Sharma, Kaushal Kumar, Ganesh Iyer, Arun Kumar, *Journal of Materials Engineering and Performance*, 34(5), p.3706-3716, 2025.
4. "Tribological and Thermal Behavior of Low-Loading Carbonaceous Filler- Reinforced Epoxy Nanocomposites" Pooja Singh, Swati Sharma, Kaushal Kumar, Shweta, Ganesh Iyer, Subhankar Das, Arun Kumar, *Composites: Mechanics, Computations, Applications: An International Journal*, 16(2), p.77-87, 2025.
5. "Investigation of Dielectric and Piezoelectric Properties of Polyvinylidene Fluoride Films Reinforced with Anatase Phase Titanium Dioxide for Pressure Sensing" Krishna Tewatia, Anuradha Sharma, Sohan Lal, Sridharbabu Yarramaneni, Tanuj Kumar, Arun Kumar, *Journal of Electronic Materials*, 54, p.103-113, 2025.
6. "Photocatalytic Activity of MWCNT-Reinforced MoS₂ Nanosheets" Shweta, Varsha Singh, Vinamrita Singh, Sridharbabu Yarramaneni, Mohammad Ashiq, Kaushal Kumar, Prikshit Gautam, Arun Kumar, *Journal of Electronic Materials*, 53(9), p.5193-5203, 2024.
7. "Viscoelastic behaviour of yttrium oxide and reduced graphene oxide embedded epoxy nanocomposite" Pooja Singh, Swati Sharma, Kaushal Kumar, Ganesh Iyer, Sohan Lal, Arun Kumar, *Engineering Research Express*, 6(2), p. 025522, 2024.
8. "Performance evaluation of 2D MoS₂-based solar cells and realization of transparent ultra-thin devices" Shweta, Vinamrita Singh, Kaushal Kumar, Arun Kumar, *Modelling and Simulation in Materials Science and Engineering*, 32(3), p. 035005, 2024.
9. "Vanadium pentoxide gas sensors: An overview of elemental doping strategies and their effect on sensing performance" P Kiran, Priya Jasrotia, Arunima Verma, Arun Kumar, Jehova Jire L Hmar, Tanuj Kumar, *Catalysis Communications*, 187, p. 106838, 2024.
10. "Effect of Mechanical Grinding and Sonication on the Optical Properties of MoS₂ Nanosheets" Shweta, Vinamrita Singh, Kaushal Kumar, Tanuj Kumar, Arun Kumar, *Indian Journal of Engineering and Materials Sciences (IJEMS)*, 30(5), p.700-705, 2023.
11. "Synthesis of MoS₂@ TiO₂ Nanosheets by Liquid Exfoliation Method for Wastewater Treatment" Shweta, Pooja Singh, Vinamrita Singh, Kaushal Kumar, Sohan Lal, Arun Kumar, *Indian Journal of Engineering and Materials Sciences (IJEMS)*, 30, p.383, 2023, <https://doi.org/10.1016/j.matpr.2023.05.371>. (ISSN: 0971-4588) (IF: 0.615)

12. "A Study of Enhancement in beta-phase and Dielectric Properties of Fe_2O_3 Reinforced in PVDF Nanocomposite Thin Films"
Krishna Tewatia, Anuradha Sharma, Arun Kumar, Kaushal Kumar, Sohan Lal, Lakshmi Sowjanya Pali, *Indian Journal of Engineering and Materials Sciences (IJEMS)*, 30, p.390, 2023, <https://doi.org/10.1016/j.matpr.2023.05.371>. (ISSN: 0971-4588) (IF: 0.615)
13. "Enhanced optical properties of recycled Fe_2O_3 reinforced in PVDF nanocomposite thin films for energy harvesting"
Krishna Tewatia, Anuradha Sharma, Arun Kumar, Kaushal Kumar, Lakshmi Sowjanya Pali, Sohan Lal, *Materials Today: Proceedings*, 2023, <https://doi.org/10.1016/j.matpr.2023.05.371>.
14. "A novel approach of fabricating low-cost high temperature printed circuit board substrate based on poly (ether-ketone)/fly ash composites"
Mukesh Kumar, A Kumar, R.K. Goyal, S Sharma, *Journal of Materials Science: Materials in Electronics*, 34, p.1238, 2023. (ISSN: 0957-4522) (IF: 2.779)
15. "Assessing the Optical Properties of 2D MoS2 Nanosheets Synthesized Using Facile Two-Step Sequential Process"
Shweta, Vinamrita Singh, Kaushal Kumar, Sridharbabu Yarramaneni and Arun Kumar, *ECS Journal of Solid State Science and Technology*, 12, p. 031009, 2023. (ISSN: 2162-8769) (IF: 2.483)
16. "Structural, optical, and electrical properties of V2O5 thin films: Nitrogen implantation and the role of different substrates"
Pawan Kumar Kulriya and Tanuj Kumar Bhanu Priya, Priya Jasrotia, Arun Kumar, Vinamrita Singh, Jehova Jire L. Hmar, Raj Kumar, *Frontiers in Materials*, 9, p. 1049189-1-13, 2022. (ISSN: 2296-8016) (IF: 2.7)
17. "Coherent to Semi-Coherent Transition in Semiconductor Heteroepitaxial Superlattices"
RM Raghavendra, Ganesh Iyer, Arun Kumar, Anandh Subramaniam, *Composites: Mechanics, Computations, Applications: An International Journal*, 13, p.101-112, 2022. (ISSN: 2152-2057) (IF: 0.3)
18. "Macroscale Stress Induced Stabilization of Coherent Precipitates"
RM Raghavendra, Anurag Jha, Ganesh Iyer, Arun Kumar, Anandh Subramaniam, *Journal of Crystal Growth*, 588, p. 126667, June 2022. (ISSN: 0022-0248) (IF: 1.83)
19. "Improved mechanical performance and unique toughening mechanisms of UDM processed epoxy- SiO_2 nanocomposites"
Prakriti K Ghosh Kaushal Kumar, Manjeet S Goyat, Ankur Solanki, Arun Kumar, Ravi Kant, *Polymer Composites*, 42, p.6000-6009, August 2021. (ISSN: 0272-8397) (IF: 3.531)
20. "Sintering time dependent structural and magnetic phase transformations in Pr doped BiFeO_3 multiferroics"
Ompal Singh, Arun Kumar, Kaushal Kumar, Ashish Agarwal, Sujata Sanghi, *Journal of Magnetism and Magnetic Materials*, 519, p. 167412, February 2021. (ISSN: 0304-8853) (IF: 3.097)

21. "Factors affecting morphological and electrical properties of Barium Titanate: A brief review"
Krishna Tewatia, Anuradha Sharma, Mamta Sharma, Arun Kumar, *Materials Today: Proceedings*, 44, p.4548-4556, April 2021. (ISSN: 2214-7853)
22. "Enhanced Thermomechanical Properties of ZrO₂ Particle Reinforced Epoxy Nanocomposite"
Kaushal Kumar, PK Ghosh, Arun Kumar, Ompal Singh, *Journal of Materials Engineering and Performance*, 30, p.145-153, 2021. (ISSN: 1059-9495) (IF: 2.036)
23. "Synthesis of graphene oxide and its reduction by green reducing agent"
Krishna Tewatia, Anuradha Sharma, Mamta Sharma, Arun Kumar, *Materials Today: Proceedings*, 44, p.3933-3938, 2021. (ISSN: 2214-7853)
24. "Design of iso-material heterostructures of TiO₂ via seed mediated growth and arrested phase transitions"
Deb Sankar De, Dilip Kumar Behara, Sulay Saha, Arun Kumar, Anandh Subramaniam, Sri Sivakumar, Raj Ganesh S Pala, *Physical Chemistry Chemical Physics*, 22, p. 25366-25379, October 2020. (ISSN: 1463-9076) (IF: 3.676)
25. "Surface stress mediated image force and torque on an edge dislocation"
R.M. Raghavendra, Divya, Ganesh Iyer, Arun Kumar and Anandh Subramaniam, *Philosophical Magazine*, 98, p.1731-1743, February 2018. (ISSN: 1478-6435) (IF: 1.632)
26. "Adhesion between a rutile surface and a polyimide: a coarse grained molecular dynamics study"
Arun Kumar, V Sudarkodi, Priya V Parandekar, Nishant K Sinha, Om Prakash, Nisanth N Nair and Sumit Basu, *Modelling and Simulation in Materials Science and Engineering*, 26, p.035012-1-26, March 2018. (ISSN: 0965-0393) (IF: 1.891)
27. "Liquid like nucleation in free-standing nanoscale films"
Pooja Rani, **Arun Kumar**, B. Vishwanadh, Kawsar Ali, A. Arya, R. Tewari and Anandh Subramaniam, *Nanoscale*, 9, p.12283-12287, June 2017. (ISSN: 2040-3364) (IF: 7.367)
28. "Poisson effect driven anomalous lattice expansion in metal nanoshells"
Ganesh Iyer, Suboohi Shervani, Gargi Mishra, Deb De, **Arun Kumar**, Sri Sivakumar, Kantes Balani, Raj Pala and Anandh Subramaniam, *Applied Physics Letters*, 110, p.131603-1-4, March 2017. (ISSN: 1077-3118) (IF: 3.411)
29. "Two Scale Simulation of Surface Stress in Solids and its Effects"
Ganesh Iyer, Deb De, **Arun Kumar**, Raj Pala and Anandh Subramaniam, *Applied Surface Science*, 371, p.343-348, 2016. (ISSN: 0169-4332) (IF: 3.150)
30. "Stabilization of Coherent Precipitates in Nanoscale Thin Films"
Pooja Rani, **Arun Kumar**, B. Vishwanadh, Somnath Bhattacharyya, R. Tewari and Anandh Subramaniam, *Philosophical Magazine*, 95, p.4130-4142, 2015. (ISSN: 1478-6435) (IF: 1.632)
31. "Simulation of the stress state of GaN-AlN based epitaxial devices"
Arun Kumar, Ganesh Iyer and Anandh Subramaniam, *Physica Status Solidi C*, 12, p.399-402, 2015. (ISSN 1610-1642) (IF: 0.550)

32. "Critical Sizes for the Stabilization of Coherent Precipitates"
Arun Kumar, Monika Gautam and Anandh Subramaniam, *Journal of Applied Physics*, 115, p.193509, 2014. (ISSN 0021-8979) (IF: 2.101)

33. "Negative, zero and positive stiffness in extended Eshelby plates"
Arun Kumar and Anandh Subramaniam, *Philosophical Magazine Letters*, 93, p.703, 2013. (ISSN 1362-3036) (IF: 1.329)
(Nominated for James Clerk Maxwell Young's Writer Award by Taylor & Francis Group)

34. "Critical Sizes for coherent to semicoherent transition in precipitates"
Arun Kumar, Gaganpreet Kaur and Anandh Subramaniam, *International Journal of Materials Research (formerly Zeitschrift für Metallkunde)*, 104, p.1171, 2013. (ISSN: 1862-5282) (IF: 0.687)

35. "On the Formation and Stability of Two Misfit Dislocations in the Cu- γ Fe System"
Arun Kumar, Monika Gautam and Anandh Subramaniam, *Journal of Solid Mechanics and Materials Engineering*, 7, p.135, 2013. (ISSN: 1880-9871) (IF: --)

36. "Position dependant critical thickness in finite epitaxial systems"
Arun Kumar and Anandh Subramaniam, *Applied Surface Science*, 275, p.60, 2013. (ISSN: 0169-4332) (IF: 3.150)
(Nominated for Frans Habraken Best Paper Award by Applied Surface Science)

37. "Finite substrate effects on Critical Thickness in Epitaxial Systems"
Arun Kumar and Anandh Subramaniam, *Advanced Materials Research*, 585, p.39, 2012. (ISSN: 1662-8958) (IF: --)

38. "Stable Edge Dislocations in Finite Crystals"
Arun Kumar and Anandh Subramaniam, *Philosophical Magazine*, 92, p.2947, 2012. (ISSN: 1478-6435) (IF: 1.632)
(Nominated for James Clerk Maxwell Young's Writer Award by Taylor & Francis Group)

39. "Interfacial Edge Dislocation Interactions with Free-Surfaces in nanocrystals"
Arun Kumar, K.G. Kavitha and Anandh Subramaniam, *Journal of Nanoscience and Nanotechnology*, 12, p.5096, 2012. (ISSN: 1533-4880) (IF: 1.338)

40. "Hydrogen storage in epitaxial films: a finite element study"
L.S. Pali, Nitesh Shah, **Arun Kumar**, Anandh Subramaniam, *Nanomaterials and Energy*, 1, p.46, 2012. (ISSN: 2045-9831) (IF: 1.02)

41. "Materials Analogue of Zero Stiffness Structures"
Arun Kumar and Anandh Subramaniam, *Philosophical Magazine Letters*, 91, p.272, 2011. (ISSN 1362-3036) (IF: 1.329)

42. "Critical Thickness for Nb Nanofilm on Sapphire Substrate: an example towards Understanding Evolution of Coherent Nanostructures"
Arun Kumar and Anandh Subramaniam, *International Journal of Nanoscience*, 10, p.351, 2011. (ISSN: 1793-5350) (IF: 0.8)

43. "Image forces on edge dislocations: a revisit of the fundamental concept with special regard to nanocrystals"

Prasenjit Khanikar, **Arun Kumar** and Anandh Subramaniam, *Philosophical Magazine*, 91, p.730, 2011. (ISSN: 1478-6435) (IF: 1.632)

44. "Determination of Image Forces in Nanocrystals using Finite Element Method"

Prasenjit Khanikar, **Arun Kumar** and Anandh Subramaniam, *Advanced Materials Research*, 67, p.33, 2009. (ISSN: 1662-8958) (IF: --)

Conference Proceeding

1. "Critical width for coherent stripes"

Ganesh Iyer, **Arun Kumar** and Anandh Subramaniam, *AIP Conference Proceedings*, 1536, p. 1219, 2013. (ISSN: 1551-7616) (IF: --)

Book Chapters

1. "Interplay of Stresses, Interfaces, and Nanoscale Effects: TEM Investigations"

Anandh Subramaniam, RM Raghavendra, Ganesh Iyer, Arun Kumar, in *Electron Microscopy in Science and Engineering*, eds. Krishanu Biswas, Sri Sivakumar, Nilesh Gurao, *Springer*, Singapore, p.123-138.

2. "Simulations of Dislocations and Coherent Nanostructures"

Anandh Subramaniam and **Arun Kumar**, in *Computational Finite Element Methods in Nanotechnology*, ed. Sarhan Musa, *CRC Press-Taylor and Francis Group*, Florida, Chapter 5, 2012. (ISBN 9781439893234) (Address: *CRC Press, Taylor & Francis Group, 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487-2742*)

Directions*: Quarterly Magazine of IIT Kanpur

1. "Edge Dislocations in Finite Crystals: Special Effects and Strange Phenomena"

Anandh Subramaniam and **Arun Kumar**, in *Directions-Newsletter IIT Kanpur*, Vol 14, No. 1, May 2014. (http://www.iitk.ac.in/directions/Directions_2014_01/)

*Directions is a research publication of the Institute that aims at presenting original contributions of the faculty in a consolidated manner. (<http://www.iitk.ac.in/infocell/iitk/newhtml/newsletter.htm>)

CONFERENCE PRESENTATIONS

- Presented one research paper in a National Conference on "Recent Advances in Materials Sciences and Engineering" (RAMSE-2019) March 28-29, 2019.
- Oral presentation in "International Conference for Development Discourse" organized by Research for Resurgence Foundation, 8-10 February, 2019.
- Presented Poster on "**Evolution of Semicoherent Precipitates**" in 'International Conference on Advances in Materials and Processing: Challenges and Opportunities (AMPCO)-2012 organized by IIT Roorkee.

- Oral presentation on "**Finite Substrate Effects on Critical Thickness in Epitaxial Systems**" in 'International Conference on Advances in Materials and Processing: Challenges and Opportunities (AMPCO)'-2012 organized by IIT Roorkee.
- Presented Poster on "**Critical Size for Coherent to Semicoherent Transition of Precipitates in a Matrix**" in 'International Symposium on Hydrogen and Energy Storage'-2010 organized by IIT Kanpur.
- Presented poster on "**Critical size for coherent to semicoherent of precipitates in a matrix**" in 'International Conference on Advanced Nanomaterials and Nanotechnology (ICANN)'-2009 organized by IIT Guwahati.

CONFERENCE/WORKSHOP/FDP/STC/VAC ORGANIZED

- Coordinator of Training course on "Cement, Building Material and Testing" for B.Tech. Civil Engineering students, J.C. Bose University of Science and Technology, YMCA, Faridabad, 2019.
- Coordinator of Twinning Workshop on "Surveying and GIS" in Civil Engineering, J.C. Bose University of Science and Technology, YMCA, Faridabad, 2019.

ACADEMIC AND ADMINISTRATIVE ACTIVITIES

- **Member**, Board of Faculty (Sciences), J.C. Bose UST YMCA
- Research Coordinator, Department of Physics (J.C. Bose UST YMCA)
- **Member**, IQAC, J.C. Bose UST, YMCA.
- **Member**, Anti-ragging committee, J.C. Bose UST, YMCA.
- **Member**, R&D cell, J.C. Bose UST, YMCA.
- **Coordinator**, Career and Counselling cell, Department of Physics (J.C. Bose UST YMCA)
- **Coordinator**, Website, Department of Physics (J.C. Bose UST YMCA)
- **Member**, Board of Studies, Department of Physics (J.C. Bose UST YMCA)
- **Member**, Departmental Research Committee, Department of Physics (J.C. Bose UST YMCA)
- **Member**, Journal of Central University of Haryana (JCUH), 2015.
- **Member**, Departmental Research Committee, Department of Physics, Central University of Haryana (CUH), 2015-16.
- **Member**, Departmental Purchase Committee, Department of Physics, CUH, 2015-16.
- **Member**, Rastriya Avishkar Abhiyan Club, CUH, 2015-16.
- **Chief Election Officer**, Hall of Residence-IV, IIT Kanpur 2013.
- **Chairman**, Computer Room, Hall of Residence-IV, IIT Kanpur 2012.
- **Volunteer**, Counseling Service, IIT Kanpur in 2012.

- **Departmental Link Student**, Counseling Service, IIT Kanpur in 2011.
- DPGC (Departmental Post Graduate Committee)- **PG student representative** in 2009.
- Certificate Course in **German** Language
- Course in Computer Basics and attended lectures on Business Management in a program organized by Small Scale Industry (SSI), Karnal, Haryana
- **Vice-President**, Physics Society, University College, Kurukshetra University Kurukshetra, Haryana in 2005.
- **Secretary**, Physics Society, University College, Kurukshetra University Kurukshetra, Haryana in 2004.
- **Camp leader** in National Service Scheme (NSS) in graduation.

PERMANENT ADDRESS

Arun Kumar
S/O Dr. Vijay Kumar Gupta
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