

## CURRICULUM VITAE

### I. Personal Data:

**Name** : **Dr. ABHISHEK KUMAR MISRA**

**Date of Birth** : 28, January, 1983

**Present Position** : Assistant Professor

**& Address** : Department of Physics  
Govt. V.Y.T. P.G. Autonomous College  
Durg, Chhattisgarh, India

**Residential Address** : RITZ 36 Ganpati Vihar Colony  
Borsi, Durg,  
Chhattisgarh, India

**Telephones** : 09451757987, 07985629641 (mobile)

**Category** : General

**Gender** : Male

**E-mail** : abhi\_physics123@rediffmail.com  
abhiphysics01@gmail.com  
abhi\_physics123@govtsciencecollegedurg.ac.in



Website: <http://govtsciencecollegedurg.ac.in/Departments.aspx?dp=Physics>

### My YouTube channel

<https://www.youtube.com/c/drabhishekkumarmisra>

### LINK FOR CERTIFICATES:

<https://drive.google.com/drive/folders/17W1zps4XSG2KNmyr-HXAxfovHxDQrgp9?usp=sharing>

### II. Educational Qualifications:

- B.Sc., obtained 1<sup>st</sup> Division with Physics, Chemistry and Mathematics, BSNV PG College Station Road Lucknow, Uttar Pradesh

- M.Sc. in Physics, secured Ist Division,  
University of Lucknow, Lucknow, Uttar Pradesh India, 2003
- Ph.D. in Physics, University of Lucknow, Lucknow, Uttar Pradesh, India, 2009.

**Thesis Title:** Dielectric, optical and switching behaviour of some doped liquid crystal

**Thesis supervisor:** Prof. Rajiv Manohar

Ph.D. thesis work is original and **high standard merit**.

### III. Professional Career:

- UGC Junior Research Fellow (JRF), 2005-2007  
University of Lucknow, Uttar Pradesh
- UGC Senior Research Fellow (SRF), 2007-2009  
University of Lucknow, Uttar Pradesh
- Post Doctoral Fellow (PDF) in Physics, Dec. 2009 – Dec. 2012  
University of Lucknow, Uttar Pradesh,
- Principal Investigator ( SERC FAST TRACK PROJECT),  
Jan 2014 – Jun. 2017  
University of Lucknow, Uttar Pradesh
- Assistant Professor in Physics, 05 Sept 2017- onward  
Govt.V.Y.T.P.G. Autonomous College Durg Chhattisgarh,

#### **Research Supervisor : Hemchand Yadav University Durg**

Ph. D Student: (03) TIRATH SINHA is Registered for Ph.D in 2019 and Pratiksha Tiwari & Usha Yadav are doing Course work (2021)

#### **IQAC MEMBER OF COLLEGE**

**Major Research Project sanctioned by College in March 2021.**

### IV. Academic & Technical Skill Area::

- Physics: Intermediate, Graduation, Medical and Engineering level.
- Nuclear physics and electrodynamics.
- Solid State Physics (Magnetic Thermal and Electric Properties etc)
- LASER and Opto-Electronics.
- Quantum Physics
- Optics, Non-linear optics.
- Thermal physics and kinetic theory of gases.
- Nuclear and Particle Physics
- Engineering Physics

#### **Research Areas:**

- New Materials Technologies: High performance Liquid crystals Materials.
- Liquid Crystals and its Properties (Electrical & Optical).  
Composite Materials (non mesogenic compound disperse in liquid crystals).
- Liquid Crystal Display Devices.
- Nematic Liquid Crystal (TN and STN LCD Devices)
- Ferroelectric, Antiferroelectric Liquid Crystal Technology,
- Liquid Crystals for Non-Linear Optics.
- Composite Materials for Various applications.

### **Teaching Aptitude:**

Teaching science with an interesting approach, using all teaching aids, innovative ideas for better understanding of –

Scientific phenomenon, facts, laws, definitions, concepts, theories.

Scientific vocabulary terminology, conventions.

Scientific instruments, apparatus, techniques of operation and aspects of safety.

To enable students to acquire sufficient understanding and knowledge of science to-

Recognize usefulness, limitation and its applicability in everyday life.

Present reasoned explanation of phenomenon, patterns and relationship.

Simulate interest in and care of environment.

Special attention to low performers by-

Motivating them.

Highlighting their positive points.

Tracking of their weaker areas and guide accordingly

### **Strengths:**

- Self-motivated with a hardworking nature.
- Creative and strong coordinating capabilities.

**PARTICIPATION IN FACULTY DEVELOPMENT PROGRAM. INTERNATIONAL  
AND NATIONAL WEBINAR, INTERNATIONAL AND NATIONAL E  
CONFERENCES AND QUIZ**

<b>FACULTY DEVELOPMENT PROGRAM:</b>	<b>13</b>
<b>INTERNATIONAL WEBINAR AND E CONFERENCE:</b>	<b>12</b>
<b>NATIONAL WEBINAR AND E CONFERENCE:</b>	<b>53</b>
<b>NATIONAL LEVEL QUIZ:</b>	<b>51</b>

### **LINK FOR CERTIFICATES**

**<https://drive.google.com/drive/folders/17W1zps4XSG2KNmvr-HXAxqvHxDQrgp9?usp=sharing>**

### **THREE NATIONAL LEVEL QUIZ ORGANIZED BY ME**

1. **ADVANCE PHYSICS QUIZ:** **<https://forms.gle/k4dzpzSA9hQjkGPa7>**

2. **PHYSICAL SCIENCE QUIZ:** <https://forms.gle/dqjnrEbfgiA81mWv8>
3. **TEACHER'S DAY QUIZ:** <https://forms.gle/9BAgkzh2ahh7rKi87>

### ATTENDED ORIENTATION AND REFRESHER COURSE

- ❑ **ORIENTATION COURSE: 25 JULY-14 AUGUST 2019 (PT. RSU RAIPUR)**
- ❑ **ONE WEEK FDP (RRGI LUCKNOW) 01-06 JUNE 2020 (07 DAYS)**
- ❑ **ONE WEEK STTP (K.D.K. COLLEGE OF ENGINEERING, NAGPUR) 17-22 JUNE 2020 (06 DAYS)**
- ❑ **FDP HEMCHAND YADAV UNIVERSITY, DURG 22 JULY TO 31 JULY 2020 (10 DAYS)**
- ❑ **ONLINE STTP SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE 27 JULY -31 JULY 2020 (05 DAYS)**
- ❑ **ONLINE FDP DEPARTMENT OF ELECTRONICS AND COMMUNICATION UNIVERSITY OF ALLAHABAD 04-10 AUGUST 2020 (07 DAYS)**
- ❑ **FDP FROM ROORKEE COLLEGE OF MANAGEMENT & COMPUTER APPLICATIONS, ROORKEE 08 -14 AUGUST 2020**
- ❑ **Faculty Development Program on ENTREPRENEURIAL MINDSET GOVT. VISHWANATH YADAV TAMASKAR PG AUTONOMOUS COLLEGE, DURG (C.G.) 16-25 AUG 2020**
- ❑ **REFRESHER COURSE: 02 JULY -17 JULY 2020 (RAMANUJAN COLLEGE DELHI)**
- ❑ **REFRESHER COURSE (PHYSICS) : 13 FEB -27 FEB 2021 (HRDC UNIVERSITY OF LUCKNOW)**
- ❑ **FIVE DAYS ONLINE WORKSHOP NEW NAAC ACCREDITATION FRAMEWORK HEMCHAND YADAV VISHWAVIDYALAYA, DURG 9-14 APRIL 2021**

### Computer Proficiency:

- **Operating Systems:** MS-DOS, Windows
- **Software:** Expert *Origin Pro 8.5* (Advanced) *Sigma plot* (Advanced), *Chemdraw* (A Molecular Modeling and relating software), *MATLAB*.
- **MS OFFICE** , 2003, 2007, 2010,2013 (An Expert in Office *Power Point*, *Word* , *Excel*, *MS Access*, *Outlook & Visio* ), *Internet - Adobe Photoshop*,

### **V. Current Research Activity: Soft Condensed State**

#### Completed & Ongoing Research Projects and Consultancies

S.N o	Title	Agency	Period	Grant/ Amount Mobilized (Rs Lakh)

1	Ferroelectric Liquid Crystals versus Fluorescent Dye Doped Ferroelectric Liquid Crystals	Department of Science and Technology, New Delhi India	Three Years ( Jan 2014 to Jan 2017) Worked as Principal Investigator (PI)	26.34
2	Effect of Fluorescent Dye on pure Ferroelectric Liquid Crystals	University Grant Commission, New Delhi India	Three Years ( Dec 2009 to 2012)  Worked as Post Doctoral Fellow	
3	Quantum dots dispersed liquid crystal	Govt. VYTPG Autonomous College Durg	From April 2021- Till Now	5

## VI. PUBLICATIONS:

### Research Papers in Refereed Journals:

#### **52 Research Paper in Refereed Journals**

Optical Materials, Results in Physics; Liquid Crystals; Journal of Molecular Liquids;; Phase Transitions; Applied Physics A; Molecular Crystals and Liquid Crystals; Journal of Non-Crystalline Solids; Ferroelectrics; Polymer Engineering and Science; Chemical Rapid Communications; Journal of Molecular Structure; Soft Materials; Physics and Chemistry of Liquids; Journal of Materials Science; Physica Scripta; AIP Conf. Proc.;

### Publication Details:

- **Google Scholar ID :**

[https://scholar.google.co.in/citations?hl=en&user=Cts\\_\\_m8AAAAJ](https://scholar.google.co.in/citations?hl=en&user=Cts__m8AAAAJ)

- **Scopus ID : 22938264700**

<https://www.scopus.com/authid/detail.uri?authorId=22938264700>

- **Mendeley:** <https://www.mendeley.com/profiles/dr-abhishek-kumar-misra/>

- **Web of Science Researcher ID : K-6827-2018**
- **Publons ID:** <https://publons.com/researcher/1492217/dr-abhishek-kumar-misra/>
- **Research Gate:** [https://www.researchgate.net/profile/Abhishek\\_Misra2](https://www.researchgate.net/profile/Abhishek_Misra2)
- **ORCID ID : 0000-0002-1256-807X**
- <https://vidwan.inflibnet.ac.in/profile/153600>
- **Google Citations: 621**
- **Google Scholar h-index : 15**
- **Google Scholar i10-index: 20**
- **Scopus h-index:13**

### **Papers Published and communicated in Journals (SCI)**

#### **Communicated Research Papers:**

1. **Abhishek Kumar Misra**, Kamal Kumar Pandey, P.K. Tripathi and R. Manohar,  
Comparative Behaviour of Dielectric and Electro-optical parameters for Pure and Dye Doped Ferroelectric Liquid Crystal: Theoretical and Experimental Study  
**Revised Submitted in Journal of Physics and Chemistry of Solids**
2. **Abhishek Kumar Misra**, Kamal Kumar Pandey, A. Singh P.K. Tripathi, and Shri Singh,  
Dielectric and Electro-Optical Behavior of Pristine and Fe<sub>2</sub>O<sub>3</sub> Nanoparticles Dispersed Ferroelectric Liquid Crystal SCE-13  
**Submitted in Liquid Crystal 2019**
3. Bhupendra Pratap Singh, **Abhishek Kumar Misra**, P.K. Tripathi, and R. Manohar  
**Revise Submitted in RSC Advanced**

#### **Research Papers: 52**

1. Dielectric and electro-optical properties of ferric oxide nanoparticles doped 4-octyloxy-4' cyanobiphenyl liquid crystal-based nanocomposites for advanced display systems  
**P K Tripathi, A. Roy, Abhishek Kumar Misra, K.K Pandey, R. Manohar, Y. S. Negi , Liquid Crystal Volume 48, 2021 - Issue 7** Pages 923-934 2021 <https://doi.org/10.1080/02678292.2020.1821918>
2. Rohit Katiyar, Kaushlendra Agrahari, Govind Pathak, Tripti Vimal, Geeta Yadav, Kamal Kumar Pandey, ·Abhishek Kumar Misra4 · Atul Srivastava, Rajiv Manohar, Silver nanoparticles dispersed in nematic liquid crystal: an impact on dielectric and electro- optical parameters, Journal of Theoretical and Applied Physics 14, pages 237–243 (2020) <https://doi.org/10.1007/s40094-020-00374-5>

3. D.P. Singh, **Abhishek Kumar Misra**, K.K Pandey, Bhavna Pal, N Kumar, D. Singh, K. Kondratenko, B. Duponchel, P. Genevray, R. Douali, Spectroscopic, dielectric and nonlinear current–voltage characterization of a hydrogen-bonded liquid crystalline compound influenced via graphitic nanoflakes: An equilibrium between the experimental and theoretical studies  
**Journal of Molecular Liquids 302 (2020) 112537**
4. **Abhishek Kumar Misra**, Kamal Kumar Pandey, Jagjeet Kaur Saluja, Rajiv Manohar, Electrical Conductivity of Cholesteric Esters and Their Homogeneous Mixtures  
**Sri JNPG College REVELATION: A Journal of Popular Science Vol. 4, No. 2 (2019), 14-20 ISSN : 2456-7698**
5. P.K. Tripathi, **Abhishek Kumar Misra**, Aaradhana Roy, Kamal Kumar Pandey, Fanindra Pati Pandey, Shri Singh and Abhilasha Singh  
Materials Research Express  
Electro-optic switching and memory effect in suspension of ferroelectric liquid crystal and iron oxide nanoparticles  
**Material Research Express 6 (2019) 1050d2**
6. Abhishek Kumar Misra, Aaradhana Roy, Kamal Kumar Pandey, Rahul Shrivastava, P.K. Tripathi, Bhupendra Pratap Singh and R. Manohar,  
Influence of SiO<sub>2</sub> nanoparticles on the dielectric properties and anchoring energy parameters of pure ferroelectric liquid crystal  
**Dispersion Science and Technology 2020 41(14):1-7**  
<https://doi.org/10.1080/01932691.2019.1653195>
7. **Abhishek Kumar Misra**, K.K. Pandey, P.K. Tripathi, B.P. Singh and Rajiv Manohar  
Dielectric Properties and Activation Energies of Cu: ZnO Dispersed Nematic Mesogen N-(4-methoxybenzylidene)-4-butylaniline Liquid Crystal  
**Dispersion Science and Technology (2020) 41 (9) 1283-1290**  
<https://doi.org/10.1080/01932691.2019.1617164>
8. **Abhishek Kumar Misra**, B.P. Singh, S. Chandraker, K.K. Pandey, P.K. Tripathi, J.K. Saluja and R. Manohar  
Faster Response and Lesser Threshold Voltage of Strontium Hardystonite (Sr-HT) Nematic Liquid Crystal: Photoluminescence and Optical Study  
**Optical Materials 93 (2019) 19-24**
9. D. P. Singh, **Abhishek Kumar Misra**, A.A. Sudhakar, C. V. Yelamaggad and Michael Depriester  
Transmuting the blue fluorescence of hecates mesogens derived from Tris (N- salicylidenaniline)s core via ZnS/ Zn:Mn<sup>2+</sup> semiconductor quantum dots dispersion  
**Journal of Luminescence 210 (2019) 7–13**
10. K.K. Pandey, P.K. Tripathi, **Abhishek Kumar Misra** and R. Manohar  
UV response on dielectric properties of nano nematic liquid crystal  
**Results in Physics 8 (2018) 1119–1123**

11. K.K. Pandey, A.C. Dixit, M.S. Khan, P.K. Tripathi, **Abhishek Kumar Misra** and R. Manohar  
Effect of UV light irradiation on the dielectric behaviour of liquid crystal/nano composite  
**Molecular Crystal and Liquid Crystals** 656 (2017) 89-95.
12. **Abhishek Kumar Misra**, P.K. Tripathi and R. Manohar,  
Fluorescent dye doped ferroelectric liquid crystal: An anchoring energy, electro-optical and fluorescence study,  
**Journal of Molecular Liquids** 214 (2016) 418-421.
13. **Abhishek Kumar Misra**, P.K. Tripathi. K.K. Pandey, S. Manohar and R. Manohar, Polymer-doped ferroelectric liquid crystal: UV absorbance, fluorescence and electro-optical study  
**Phase Transitions** 90 (2016) 227-235.
14. **Abhishek Kumar Misra**, P.K. Tripathi and Rajiv Manohar,  
Fluorescent dye doped ferroelectric liquid crystal: An anchoring energy, electro-optical and fluorescence study,  
**Journal of Molecular Liquid** 214 (2016) 418-421.
15. M. Pande, P.K. Tripathi, **Abhishek Kumar Misra**, S. Manohar, R. Manohar and S. Singh, Dielectric and electro-optical properties of polymer-stabilized liquid crystal system,  
**Appl. Phys. A** (2016) 122:217.
16. K.K. Pandey, **Abhishek Kr Misra**, P.K. Tripathi and R. Manohar,  
Nano doped weakly polar versus highly polar liquid crystal,  
**Applied Nanoscience** DOI 10.1007/s13204-015-0423-9.
17. **Abhishek Kumar Misra**, P.K. Tripathi and R. Manohar, Fluorescence,  
UV absorbance and dielectric study of fluorescent dye doped ferroelectric liquid crystal, **Journal of Non-Crystalline Solids** 412 (2015) 1-4.
18. **Abhishek Kumar Misra**, K.K. Pandey, P.K. Tripathi and Rajiv Manohar,  
Dielectric and Electro-Optical Study of Fluorescent Dye Doped Ferroelectric Liquid Crystal, **Quantum Electrochemistry** 2 (2015) 1-4.
19. P.K. Tripathi K.K. Pandey, **Abhishek Kumar Misra**, S. Pandey and R. Manohar,  
Dielectric behavior of ZnO nano particle doped nematic liquid crystal,  
**Ferroelectrics**, 468 (2014) 132-142.
20. **Abhishek Kumar Misra**, P.K. Tripathi, K.K. Pandey and R. Manohar,  
Electro-optical study of fluorescent dye doped ferroelectric liquid crystal,  
**Molecular Crystal and Liquid Crystals** 591 (1) (2014) 25-33.
21. P.K. Tripathi **Abhishek Kumar Misra**, K.K. Pandey, S.P. Yadav and R. Manohar, Abnormal switching behavior of liquid crystal composite,



- Phase Transitions** 86 (2013) 1241-1255.
- 22. Abhishek Kumar Misra, P.K. Tripathi and R. Manohar,**  
Goldstone and Soft Mode for Fluorescent Dye Doped Ferroelectric Liquid Crystal,  
**Journal of Non-Crystalline Solids** 376 (2013) 7–11.
- 23. K.K. Pandey, Abhishek Kumar Misra, P.K. Tripathi S. P. Yadav and R. Manohar,** Theoretical aspect of nanonematic composite: energy functional and threshold voltage, **Molecular Crystal and Liquid Crystals** 582 (2013) 88-97.
- 24. Abhishek Kumar Misra, K.K. Pandey, P.K. Tripathi and R. Manohar,**  
Dielectric Relaxation of a Ferroelectric Liquid Crystal Showing Anomalous Behaviour Due to Polarization Inversion,  
**AIP Conf. Proc.** 1536 (2013) 933.
- 25. P.K. Tripathi, Abhishek Kumar Misra, S. Pandey and R. Manohar,**  
Low Frequency Dielectric Relaxation and Optical Behaviour of a Nematic Liquid Crystal 4-Methyl (2'-Hydroxy, 4'-N-Hexadecyloxy) Azobenzene,  
**AIP Conf. Proc.** 1536, (2013) 885.
- 26. P.K. Tripathi, Abhishek Kumar Misra, K.K.Pandey and R. Manohar,**  
Study on dielectric and optical properties of ZnO doped nematic liquid crystal in low frequency region,  
**Chemical Rapid Communication** 1 (1) (2013) 20-26.
- 27. P.K. Tripathi, Abhishek Kumar Misra, S.K. Gupta and R. Manohar,**  
Improved Dielectric and Electro-Optical Parameters of ZnO Nano Particle (8% Cu<sup>2+</sup>) Doped Nematic Liquid Crystal,  
**Journal of Molecular Structure** 1035 (2013) 371-377.
- 28. S. Dixit, Abhishek Kumar Misra, R. Manohar, A.K. Arora and T.K. Srinivasan,** Enhancement in dielectric properties of Nematic Liquid Crystal by Gamma-Irradiation, **Molecular Crystal and Liquid Crystals** 571 (2013) 77-85.
- 29. Abhishek Kumar Misra, P.K. Tripathi, and R. Manohar,**  
Changes in material parameters for dye doped ferroelectric liquid crystal,  
**Phase Transitions** 86 (2012) 977-986.
- 30. Abhishek Kumar Misra, P.K. Tripathi, and R. Manohar,**  
Reduction of optical response time for fluorescent dye doped ferroelectric liquid crystal, **Journal of Molecular Liquids** 175 (2012) 67-71.
- 31. Abhishek Kumar Misra, S.P.Yadav, K.K.Pandey, R. Manohar, M.C. Varia and A.K. Prajapati,**  
Dielectric Relaxation Study On H Shaped Liquid Crystal Dimer,  
**Physics and Chemistry of Liquids** 50 (2012) 605-616.
- 32. S.P.Yadav, K.K. Pandey, Abhishek Kumar Misra, P.K. Tripathi and R. Manohar,** Molecular Ordering Phenomenon in Dye Doped Nematic Liquid Crystal,

- Physica Scripta** 83 (2011) 035704-1-5.
- 33.** S.P.Yadav, K.K. Pandey, **Abhishek Kumar Misra**, S. Dixit and R. Manohar,  
Molecular Dynamics In Weakly Polar Nematic Liquid Crystal Doped With Dye,  
**Canadian Journal of Physics** 89 (2011)661-665.
  - 34.** S.P.Yadav, K.K. Pandey, **Abhishek Kumar Misra** and R. Manohar,  
Electro Optical Behavior of Dye Doped Nematic Liquid Crystal,  
**Acta Physica Polonica** 119:6 (2011) 824-828.
  - 35.** R. Manohar, S.P.Yadav, **Abhishek Kumar Misra** and K.K.Pandey,  
Dipole Dynamics of Nano Doped Weakly Polar Liquid Crystal,  
**Molecular Crystal Liquid Crystals** 534 (2011) 57-68.
  - 36.** R. Manohar, K.K. Pandey, S.P.Yadav, A.K. Srivastava and **Abhishek Kumar Misra**, Surface anchoring effect  
on guest host ferroelectric liquid crystal response time -An Electro-optical investigation,  
**Philosophical Magazine** 90 (34) (2010) 4529-4539.
  - 37.** R. Manohar, **Abhishek Kumar Misra**, D.P.Singh, S.P.Yadav, P. Tripathi, A.K.Prajapati and M.C.Varia,  
Dielectric, Thermal and Optical Study of an Unusual Shaped Liquid Crystal,  
**Journal of Physics and Chemistry of Solids** 71 (12) (2010) 1684-1689.
  - 38.** R. Manohar, K.K.Pandey, A.K. Srivastava, **Abhishek Kumar Misra** and S.P.Yadav,  
Sign inversion of dielectric anisotropy in nematic liquid crystal by dye doping,  
**Journal of Physics and Chemistry of Solids** 71 (2010) 1311-1315.
  - 39.** R. Manohar, A. K. Srivastava and **Abhishek Kr. Misra**,  
Electro-optical behaviour of dye doped FLC,  
**Soft Materials** 8(1) (2010) 1-13.
  - 40.** R. Manohar, S.P.Yadav, K.K.Pandey, A. K. Srivastava and **Abhishek Kumar Misra**, Comparative study of  
dielectric and electro-optical investigation of pure and polymer composite of ferroelectric liquid crystal,  
**Journal of Polymer Research** 18 4 (2010) 35-441.
  - 41.** R. Manohar, **Abhishek Kumar Misra** and A.K. Srivastava,  
Modified dynamical equation for Dyed Nematic Liquid Crystals,  
**Physica B** 405 (2010) 1964-1968.
  - 42.** R. Manohar, **Abhishek Kumar Misra** and A.K. Srivastava,  
Polymer induced improvements in ferroelectric liquid crystal  
**Polymer Composites** (2010) 1-6.
  - 43.** R. Manohar, S. P. Yadav, A. K. Srivastava, **Abhishek Kumar Misra**, K.K. Pandey, A.C.Pandey and  
P.K.Sharma,  
Zinc oxide (1%Cu) nano particle in nematic liquid crystal: Dielectric and electro-optical study,  
**Japanese Journal of Applied Physics** 48 (2009) 101501.
  - 44.** R. Manohar, A. K. Srivastava, P.B.Chand, **Abhishek Kumar Misra**, J.P.Shukla, A.K. Prajapati and M.C.Varia,

$\lambda$ - Shaped Mesogenic Homologous Series With Polar Substituents: Synthesis, Characterization And Unusual Dielectric Behavior

**Research Journal of Science Engg. and Technology** 1(2) (2008) 66-76.

- 45. Abhishek Kumar Misra, A. K. Srivastava, J. P. Shukla and R. Manohar,**  
Dielectric and Electro-Optical parameters of two Ferroelectric Liquid Crystals,  
**Physica Scripta** 78 (2008) 065602-1-7.
- 46. A. K. Srivastava, Abhishek Kumar Misra, P. B. Chand, R. Manohar and J. P. Shukla,** Dielectric and Electro-Optical Characterization of Dyed Ferroelectric Liquid Crystals, **Molecular Crystal and Liquid Crystals** 495 (2008) 546-563.
- 47. A.K. Srivastava, Abhishek Kumar Misra, J.P. Shukla and R. Manohar,**  
Dielectric and electro-optical properties of dye doped ferroelectric liquid crystal,  
**Physics Letters A** 372 (2008) 6254-6259.
- 48. R. Manohar, G. Tripathi, Abhishek Kumar Misra, A. K. Srivastava, J. P. Shukla and A. K. Prajapati,**  
Dielectric and optical study of 4-n-decyloxybenzylidene 4'-isopropylaniline exhibiting monotropic smectic A phase,  
**Macromolecule** Vol 4 Issue 1 (2008) 73-77.
- 49. R. Manohar, Abhishek Kumar Misra, A. K. Srivastava, P.B.Chand and J.P. Shukla,** Dielectric Relaxation of a FLC Showing Anomalous Behaviour ,  
**Soft Materials** 5(4) (2007) 207-218.
- 50. A.K. Srivastava, Abhishek Kumar Misra, P.B. Chand, Rajiv Manohar and J. P. Shukla,** Ferroelectric Liquid Crystals versus Dyed Ferroelectric Liquid Crystals in SmC\* Phase (2007)  
**Physics Letters A** Vol. 371 490-498.
- 51. A. K. Srivastava, Abhishek Kumar Misra, P.B.Chand, R. Manohar and J.P. Shukla,**  
Shifting of Transition Temperature of Ferroelectric Liquid Crystals Due to Addition of Dye –An Optical and Dielectric Study  
**Journal of Physics and Chemistry of Solids** 68 (2007) 523-529.
- 52. D. Pal, P. Mishra, Abhishek Kumar Misra, R. Manohar and J.P. Shukla,**  
Effect of Dichroic Dye on Dielectric and Optical Properties of a Nematic Liquid Crystal, **Research Journal of Physics I** (1) (2007) 10-18.

#### Papers presented in Conferences, Seminars, Workshops, Symposia

S.No	Title of the paper presented	Type of Presentation	Title of the Conference/Seminar	Organized By	Whether Conference/ international/ national/ state/regional/

					college or university level
1	Refractive Indices, Order Parameter and Optical Transmittance Studies of a Nematic Liquid Crystal	<b>ORAL</b>	NLCS 2005 held at SILCHAR. 19-21 Dec 2005	Chemistry Dept of Assam University Silchar	<b>National</b>
2	The Dielectric Properties of Dichroic Dye Doped Nematic Liquid Crystal	<b>POSTER</b>	MRSI.2006 held at LUCKNOW 13-15 Feb 2006	Physics Dept Of Lucknow University Lucknow	<b>National</b>
3	Optical Properties and Order Parameter of Cholesteric Liquid Crystals and Their Mixtures and Their Mixtures	<b>ORAL</b>	NLCS2006 Held At Mysore 9-11 Oct 2006	Chemistry Dept Of Mysore University Mysore	<b>National</b>
4	Dielectric Relaxation Study of Ferroelectric Liquid Crystal and its Dye Doped Mixture	<b>POSTER</b>	Advance in Chemical and Materials Science held at LUCKNOW 11-12 May 2007	Physics Dept Of Lucknow University Lucknow	<b>National</b>
5	Anomalous Dielectric Behaviour of FLC Mixture	<b>POSTER</b>	NLCC 2007 Held At Siliguri 17-19 Dec 2007	Physics Dept	<b>National</b>
6	$\lambda$ - Shaped Mesogenic Homologous Series With Polar Substituents: Synthesis, Characterization And Unusual Dielectric Behavior	<b>POSTER</b>	15th NCLC 2008 held at IISC BANGLORE 13-15 Oct 2008	Physics Dept	<b>National</b>

7	Dielectric and Electro-Optical Characterization of Dye Doped Ferroelectric Liquid Crystals	<b>POSTER</b>	16th NCLC held at LUCKNOW 26-28 Oct 2009	Physics Dept Of Lucknow University Lucknow	<b>National</b>
8	Dielectric and Electro-Optical parameters of two Ferroelectric Liquid Crystals,	<b>ORAL</b>	16th NCLC held at LUCKNOW 26-28 Oct 2009	Physics Dept Of Lucknow University Lucknow	<b>National</b>
9	Ferroelectric liquid crystal parameters doped with fluorescent dye	<b>POSTER</b>	NCLC held at Patiala 21-23 November,2012	Physics Dept Of Thapar University Patiala	<b>National</b>
10	Dielectric relaxation of a ferroelectric liquid crystal showing anomalous behaviour due to polarization inversion	<b>POSTER</b>	RAM 2013 held at Bikaner 01-02 FEB 2013	Govt College of Engg. andTechnology Bikaner	<b>International</b>
11	An Apparatus of Increased Precision for the Measurement of Electro-Optical Parameter of Liquid Crystals	<b>POSTER</b>	UCOST SPONSERED Pauri Garhwal Uttarakhand 21-22 March 2013	Mathematics Department Govt. PG college Lansdowne Pauri Garhwal Uttarakhand	<b>National</b>
12	Dielectric and Electro-Optical Study of Fluorescent Dye Doped Ferroelectric Liquid Crystal	<b>POSTER</b>	NCME JAIPUR 22-24 Dec 2014	Physics Department SS Jain Subhodh PG College Jaipur	<b>National</b>
13	Nano Doped Weakly Polar Versus Highly Polar Liquid Crystal	<b>POSTER</b>	NCME JAIPUR 22-24 Dec 2014	Physics Department SS Jain Subhodh PG College Jaipur	<b>National</b>

