

# CURRICULUM VITAE

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**Professor**

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[Google Scholar Profile](#) [Web of Knowledge Profile](#) [Scopus Author Profile](#)

## **Academic Profile:**

Ph. D. in Physics (2002) from Jamia Millia Islamia (Central University), New Delhi.

M. Sc. Physics (1992) from Jamia Millia Islamia (Central University), New Delhi.

B. Ed. (1993) from Jamia Millia Islamia (Central University), New Delhi, (India).

B. Sc. (Hons.) Physics (1990) from Jamia Millia Islamia (Central University), New Delhi.

**Teaching Experience: UG: 17 Years      PG: 15 Years**

**Research Experience: 19 Years**

**Field Of Specialization:** Molecular and Optical Physics, **Nonlinear Optical Materials,**  
**Optical Spectroscopy,** Computational Molecular and Nanoscience, Photonic Materials

## **Employment Profile:**

Working as Professor in Department of Physics, Jamia Millia Islamia, New Delhi since October 02, 2019.

Worked as Associate Professor in Department of Physics, Jamia Millia Islamia, New Delhi since May 22, 2018 till October 01, 2019.

Worked as Assistant Professor in Department of Physics, Jamia Millia Islamia, New Delhi since November 21, 2006 till May 21, 2018.

Worked as Guest Lecturer at Department of Applied Sciences and Humanities, Faculty of Engineering, Jamia Millia Islamia (Central University), New Delhi for the session 2004-2005 and session 2005-2006.

### **Academic Work:**

- Member, Departmental Committee for the design and development of Curriculum and Courses of B.Sc. (H) Physics, (Semester System- 2011-2012)
- Coordinated the design and development of Curriculum and Courses of M.Sc. Physics, (Semester System- 2009-2011)
- Redesigned the syllabus of the Course “Laser Physics and Spectroscopy” for M. Sc. Physics
- Developed the syllabi of the Courses “Photonics” for M. Sc. Physics and “Photonics” for Pre-PhD
- Redesigned the syllabus of the Course “Laser Spectroscopy” for M. Sc. Physics

### **Courses Taught:**

- Postgraduate courses:
  - Laser Spectroscopy
  - Photonics (M. Sc. and Pre-PhD Course)
  - Laser Spectroscopy and Modern Optics
  - Laser Physics
  - Laboratory Courses (M. Sc. (P), M.Sc. (F), M. Sc. Sem -3 & 2)
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- Undergraduate courses:
  - Optics
  - Mathematical Physics
  - Mathematical Physics II
  - Nuclear and Particle Physics
  - Structure of Matter
  - Laboratory courses
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## **Research Guidance:**

- No. of Ph. D. students currently working : 4+ 2\* (\* as Co-Supervisor)
- No. of Ph.D. Thesis submitted/under evaluation : 8+ 5\* (\* as Co-Supervisor)
- No. of Projects Guided at Postgraduate Level : 47 ([#Appendix\\_1](#))
- **Ph.D. Thesis awarded under my Supervision : 12**

S. No.	Name of Ph. D. Scholar	Topic of Ph. D. Thesis	Year of Award
13.	Anu	Investigations of Metal-Organic Complexes for Electronic and Optoelectronic Applications	2021 (Submitted)
12.	Archana Sharma	Computational Study of Functionalized MoS <sub>2</sub> for Environmental and Energy Applications	2021
11.	Tahir Murtza	Synthesis, Characterization and Properties of Composite Multiferroics	2019
10.	Shabir Ahmad Kumar*	Effect of Laser, Gamma-ray and Swift Heavy Ion Irradiation on Compound Semiconductors	2017
9.	Munirah*	Studies of optical properties of CdS and ZnO based thin film nano structures using photo-thermal deflection and other spectroscopic techniques	2016
8.	Cherry Dhiman	Cavity Ring Down and Laser Induced Breakdown Spectroscopic Techniques for the Study of Toxicants at Low Concentration Levels	2016
7.	Rayees Ahmad Zargar*	Synthesis and Characterization of Iron Chalcogenide Superconductors	2016 April
6.	Stuti Joshi	Study of Spectral Properties of Partially Coherent Optical Fields and their	2015

		Applications	
5.	Shereena Joseph*	Light Matter Interaction in Periodic Nanostructures	2015
4.	Sana Zafar	Structural, Electronic and Spectroscopic Studies of Non Linear Optical Conjugated Molecules and Organic Dyes	2015
3.	Md. Shahzad Khan	Hydrogen Storage in Carbon and Boron Nitride Nanostructures – A First Principle Computational Study	2014
2.	Zia ul Raza Khan	Study of Spectroscopic and Optoelectronic Properties of Semiconductor Clusters and their Semiempirical and ab-initio Computations	2012
1.	Darakhshan Qaiser*	Study of Optical Gain and Relaxation Mechanism of Fullerenes in Solution	2012

\* under Co-Supervision

### Research Projects:

Title of Project	Funding Agency	Duration		Grant/Amount Mobilized (Rs. Lakhs)	Status
		From	To		
<b>Detection of Toxic and Explosive Traces Using Cavity Ring Down Laser Spectroscopy (CRDS)</b>	Defence Research and Development Organization (Ministry of Defence), New Delhi	December 14, 2010	December 13, 2013	Rs. 14.92 Lacs	Completed

## **Lectures and Talks delivered:**

10. Delivered an **invited talk** on “**Nonlinear Optics and its Fascinating Applications**” in *National Seminar/Workshop on “Physics in 21<sup>st</sup> Century”* (Oct. 4-6, 2017), Abdul Ahad Azad Memorial Degree College, Cluster University, Srinagar on Oct. 4, 2017.
9. Delivered an **invited talk** on “**Organic Non-Linear Optical Materials: An Experimental and Computational Quest**” in *International Conference on New Scintillations on Materials Horizon (ICNSMH – 2016)* (Oct.21-23, 2016), Department of Applied Physics, Faculty of Engg. & Technology, MJPR University, Bareilly on Oct. 23, 2016.
8. Delivered an **invited talk** on “**Hydrogen Storage in Carbon and Boron Based Nanostructured Materials**” in *National Conference on Indian Development in Recent and Ideal Semiconductors for Novel Applications (NC IDRIS – 2012)* (Oct. 6-7, 2012) Navapur, India on Oct.7, 2012.
7. Delivered an **invited talk** on “**Designing Nanostructured Materials for Hydrogen Storage using DFT Simulations**” in *National Workshop on Advancement of Nano Materials & Its Application (Feb 9-11, 2012)* at Department of Physics, DAV College, Kanpur, India on Feb 9, 2012.
6. Delivered an **invited talk** on “**Computational Exploration of Hydrogen Storage capabilities of Nanostructured Materials using Density Functional Theory**” at in the International Conference on Advanced Materials (ICAM-2011) held at PSG College of Technology, Coimbatore, India on December 15, 2011.
5. Delivered an **invited talk** on “**Quantum Chemical Simulations for Structure and Properties of Functional Materials**” at CINVESTAV-IPN, Mexico City, Mexico on August 20, 2010.
4. Delivered a Lecture on “**Non-Linear and linear Optical Properties of electron donor – acceptor pyridine moiety: A Comparative ab initio and DFT Study**” in Symposium 5, of XIX International Material Research Congress (XIX IMRC), Cancun, Mexico on August 18, 2010.
3. Delivered a Lecture on “**Computational Study of Hydrogen adsorption on K(poatassium)-Doped Boron-nitride nanotube**” in Symposium 2, of XIX International Material Research Congress (XIX IMRC), Cancun, Mexico on August 17, 2010.

2. Delivered a Lecture on “**Influence of Thickness on Structural and Optical Properties of Thermally Evaporated CdTe Polycrystalline Thin Films**” in Symposium 9, of XIX International Material Research Congress (XIX IMRC), Cancun, Mexico on August 17, 2010.

1. Delivered Lectures on “ Activity Based Science Learning” in the Workshop on “ Train the Trainer- Innovative Teaching Methodologies and Best Practices”, at Jodhpur and Jhalawar on Dec.1 and Dec.4, 2007, respectively.

### **Foreign Visits:**

- Visited **Mexico** to participate in the XIX International Material Research Congress (XIX IMRC) held at Cancun, Mexico during August 15-19, 2010 and delivered three Oral Presentations.
- Visited **USA** to participate as **Citizen Exchange Fellow** in the SOUTH ASIA SCHOOL COLLABORATION PROJECT (SASCP) of Department of State, USA, funded and supervised by Bureau of Educational and Cultural Affairs, USA held at *Nova Southeastern University, Florida, USA* during October10 - November 5, 2005 and in **Washington DC** during November 5 – November 11, 2005. Interacted with the educator participants from Bangladesh, India, Pakistan, Sri Lanka and United States and completed 200 hours of studies.

- **Research Publications:** [\(Appendix 2A\)](#)
- **Publications in Refereed Journals:** 77
- **Publications in Proceedings of Conferences/ A: (with ISSN/ISBN numbers):** 16
- **Publications in Proceedings of Conferences: B: National Laser Symposia:** 7
- **Chapters in Books:** 6
- **Books:** 3

### **Participation in Conference / workshop / seminar / project:**

31. **Chaired** a Session at ----- organized by Department of Electrical Engineering, Jamia Millia Islamia, New Delhi ( , 2019), on -----, 2019.
30. **Chaired** a Session at International Conference on Advanced Materials (ICAM-2019) organized by Centre for Nanoscience & Nanotechnology, Jamia Millia Islamia, New Delhi (March 6-7, 2019), on March 7, 2019.
29. Attended the International Conference on Advanced Materials (ICAM-2019) organized by Centre for Nanoscience & Nanotechnology, Jamia Millia Islamia, New Delhi held during March 6-7, 2019, and Presented a research paper entitled "First-principles characterization of Stanene/MoS<sub>2</sub> Composite as anode for Lithium-ion Batteries" in on March 6, 2019.
28. Participated in the DAE-BRNS National Laser Symposium (NLS-27), held at RRCAT, Indore during December 3 – 6, 2019 and presented One Paper (4171)
27. **Presented a research paper (Poster)** entitled" DFT based study of Adsorption of CO on Cu-doped MoS<sub>2</sub> Sheet" in the International Conference on Sustainable Development through Research in engineering and Management (SDREM-16) held at YMCA University of Science and Technology, Faridabad (December26-27, 2016) on Dec 26, 2016.
26. Attended National Seminar on Photonics and Optical Materials organized by Department of Physics, JMI, New Delhi on January 21, 2016. (+1)
25. Attended National Conference on Nanotechnology and Renewable Energy (NCNRE-14) organized by Department of Applied Sciences & Humanities, Jamia Millia Islamia, New Delhi-110025 (April 28-29, 2014).
24. Attended the 17<sup>th</sup> International Workshop on the Physics of Semiconductor Devices (IWPSD-2013) held at Amity University, Noida during December 10-13, 2013. (**Two Poster presentations**)(1+1)
23. Attended First National Conference on Trends and Applications in Laser Technology and Optoelectronics (TALTO-1) held at Amity University, Gurgaon, India on April 4, 2013. (**One paper**)

22. Attended National Conference on Advanced Trends in Nanoscience and Nanotechnology (ATTN-2013) held at JMI on February 25, 2013.
21. Attended National Seminar on Developments in Materials, Theoretical and High Energy Physics held at JMI on February 3, 2012.
20. Attended the International Conference on Advanced Materials (ICAM-2011) held at PSG College of Technology, Coimbatore, India during December 12-16, 2011 and delivered an **invited talk** and **chaired** a session on Theory and Computer Simulation of Advanced Materials on December 15, 2011.
19. Participated in the 2<sup>nd</sup> **International Conference on Advanced Nanomaterials and Nanotechnology (ICANN-2011)** held at IIT Guwahati, Guwahati during December 8-10, 2011 and **presented a research paper (Poster)**.
18. Attended the Three Day Joint Academies Lecture Workshop on “Frontiers in Physics”, at University of Delhi South Campus, New Delhi January 21-23, 2011.
17. Participated in the **XIX International Material Research Congress (XIX IMRC)** held at Cancun, Mexico during August 15-19, 2010 and delivered **three Oral Presentations**.
16. Attended National Seminar on Advances in Materials and Devices held at ITM University, Gurgaon, on May 15, 2010.
15. Attended National Seminar on Developments in Materials, Theoretical and High Energy Physics held at JMI during February 19-20, 2010.
14. Participated in the Ninth DAE-BRNS National Laser Symposium (NLS-09), held at BARC, Mumbai during January 13 – 16, 2010. (One Poster (CP-11-04))
13. Attended a short course on “ Laser Beam Diagnostics” conducted by Indian Laser Association at BARC, Mumbai, during January 11-12, 2010.
12. Participated in the XV International Workshop on the Physics of Semiconductor Devices (IWPSD-2009) held at JMI, New Delhi during December 15-19, 2009. (*Two Poster presentations*)
11. Attended the National Workshop on FIBER OPTICS & APPLICATIONS held at South Campus, Delhi University, New Delhi during November 28-29, 2009.
10. Participated in the Workshop on Right To Information Act 2005 held at JMI, New Delhi on October 10, 2009.



9. Attended “National Seminar on Condensed Matter, High Energy and Nuclear Physics”, Department of Physics, JMI, New Delhi-25, March 23-24, 2009.
8. Participated in the “ Workshop on Web 2.0 in Education” organized by FTK-CIT, Jamia Millia Islamia, New Delhi on November 4, 2008.
7. Participated in the Workshop on “Laser Spectroscopy and Nanophotonics” at IIT Delhi, during March 14-15, 2008.
6. Participated in “ **International Conference on Luminescence and its Applications**” at NPL, New Delhi-, during Feb.13, 16, 2008. (*Poster entitled* “The study of Energy Transfer Dye Characteristics using Fullerene C60 with Coumarine – 440” )
5. Attended the National Seminar on Nano-Materials & Devices, held at JMI on January 30, 2008.
4. Participated in the Workshop on “ IT for all”, at JMI, New Delhi, during Oct.31-Nov.1, 2007.
3. Participated in the SOUTH ASIA SCHOOL COLLABORATION PROJECT (SASCP) held at *Nova Southeastern University, Florida, USA* during October10- November 5, 2005 and in **Washington DC** during November 5 – November 11, 2005.
2. Participated in “International Conference on Spectroscopy: Perspectives and Frontiers (INCONS) held at BARC, Mumbai, during January 3-5, 1996.
1. Attended the Symposium on Molecular Spectroscopy and Laser held at BHU, Varansi during November 26-28, 1994, and **presented a poster** (No.: P/2/48) entitled “A Theoretical Study of Electronic Spectra of Radical Cations of some Anthraquinones”.

### **Participation in Orientation Programme / Refresher Course:**

3. Attended the 4 Week Refresher Course in Physics at the UGC-HRDC, JNU, New Delhi during October 5-30, 2015.
2. Attended the 1<sup>st</sup> 3-Week Refresher Course in Basic Sciences (Interdisciplinary) at the Academic Staff College, Jamia Millia Islamia, New Delhi during May 6-27, 2011.
1. Attended the 94<sup>th</sup> 4-Week Orientation Programme at the Academic Staff College, Jamia Millia Islamia, New Delhi during October 18, 2010 to November 16, 2010.

## **Seminars & Conferences Organised:**

- **Organizing Secretary:** National Seminar on Photonics and Optical Materials organized by Department of Physics, JMI, New Delhi on January 21, 2016.
- **Joint Secretary:** National Seminar on Nanomaterials: |Synthesis, Characterization and Applications organized by Centre for Nanoscience and Nanotechnology, JMI, New Delhi on 14<sup>th</sup> March, 2015.
- **Organizing Committee Member** of the 17<sup>th</sup> International Workshop on the Physics of Semiconductor Devices (IWPSD-2013) held at Amity University, Noida during December 10-13, 2013.
- **Joint Secretary:** National Seminar on Condensed Matter, Nuclear and High Energy Physics, organized by Department of Physics, JMI, New Delhi during February 18-19, 2011.
- **Co-ordinated the Parallel session at one venue (Hall 2) and Member Local Organizing Committee of:** International Workshop on **Physics of Semiconductor Devices**, IWPSD-2009 Jamia Millia Islamia, (Dec. 15-19, 2009)
- **Joint Secretary:** National Seminar on Condensed Matter, High Energy and Nuclear Physics, Department of Physics, JMI, New Delhi-25 (March 23-24, 2009)

## **Outreach Activities:**

- Delivered a Talk on “ Chand ki taraf Hinustan ka safar” on Urdu Service, All India Radio, New Delhi, telecast on October 14, 2008.
- **Program Co-ordinator:** Workshop on “Innovative Teaching Methodologies and Best Practices”, on Dec. 1, 2007 at Jodhpur and Dec. 4, 2007 at Jhalawar, Rajasthan, in collaboration with American Centre, New Delhi, and Ritinjali, an NGO, and funded by US Department of State.
- Participated in three Five day Workshops and Vetted/Reviewed the Manuscripts of Physics Textbooks for Class XI and XII (Urdu Version), organized by Department of Education in Science and Mathematics (DESM), National Council for Educational Research and Training (NCERT), New Delhi during May 9-13, 2005, May 27-31, 2005, and August 22-26, 2005.

- Participated in a Five day Workshop and Vetted/Reviewed the Manuscripts of Science Textbooks for Class IX (Urdu Version), organized by Department of Education in Science and Mathematics (DESM), National Council for Educational Research and Training (NCERT), New Delhi during December 20-24, 2004.

### **Contribution to Corporate Life:**

- Provost, M.M.A. Jauhar Hall of Boys Residence, Jamia Millia Islamia wef Jan. 30, 2020 to till date
- Deputy Proctor, Jamia Millia Islamia wef July 25, 2019 to till date
- Advisor Security, Jamia Millia Islamia wef July 26, 2019 to Jan. 23, 2020
- Time Table In-charge of Department of Physics Session 2007-2008 to Session 2020-2021
- Senior Warden, FRK Hostel wef Feb. 21, 2017 to May 31, 2019.
- Member Academic Audit Team for Session 2015-2016.
- Senior Warden (Mess), Dr. B.R. Ambedkar Hostel from August 27, 2015 Feb. 20, 2017.
- Advisor, Jamia Physics Association for the Session 2015-2016, 2016-2017, 2017-2018 and 2018-2019.
- Assistant Superintendent of Entrance Examinations, MCRC Centre June 2015
- Warden (Mess), Sir Abdul Majeed Khawaja Hostel & Dr. B.R. Ambedkar Hostel from October, 2012 to August 2015.
- Nodal Officer of NAAC Team – for Department of Physics 2014-2015.
- Member Central Admission Coordination and Monitoring Committee (CACMC) for the Academic Session 2011-2012, 2012-2013, and 2013-2014.
- Member, Sub-Purchase Committee for the Department of Physics
- Member, NAAC verification Team, July 2013
- Assistant Superintendent of Examinations, UG Compartmental Examinations – December 2011.
- Warden, Sir Abdul Majeed Khawaja Hostel from October 5, 2011-October 2012.
- Assistant Superintendent, Entrance Test of Centres of JMI-2011.

- Assistant Superintendent of Examinations, Pre-Ph. D. Examinations of Department of Physics –January 2011.
- Assistant Superintendent of Examinations, Post Graduate Examinations of Department of Physics – Annual Examinations 2010, and Examinations 2011.
- Assistant Superintendent of Examinations, UG Compartmental Examinations – December 27, 2010 – January 6, 2011.
- Assistant Superintendent, Entrance Test of Centres of JMI-2010 and Entrance Test of Centres of JMI-2009.
- Member, Co-ordination Committee for developing Instrumentation Maintenance Centre, JMI (2008-2010).
- Co-ordinated the Infrastructure Grant of Rs. 40 lacs from UGC to the Department of Physics.
- Member, Book Purchase Committee for the Departmental Library 2007-2008.
- Placement Coordinator, Department of Physics, 2007-2011.
- Deputy Proctor (Schools) August 2002 – February 2007.
- Assistant Proctor September 2001 – July 2002.
- Deputy Proctor (Schools) September 2000 – August 2001.
- Warden Shafeeque Manzil Hostel, January 1998 – October 1998.

**Membership of Academic and Professional Bodies:**

1. Life Member of Indian Laser Association, (Membership No. 917)
2. Affiliate Member of Institute of Physics, UK for the Year 2010-2011, (Membership No. 80029285)

**Computational Skills:**

Hyperchem and Chemplus Package, Hypercube Inc. USA. Gaussian 2003 Package, AMPAC and AMSOL packages  
 General Atomic and Molecular Electronic Structure System (GAMESS) Program  
 Programming in Fortran, Windows, Unix/Linux, Microcal Origin

## List of Projects guided at PG level:

S. NO.	NAME OF STUDENT	CLASS & SESSION	TITLE OF PROJECT	IN -HOUSE/ IN COLLABORA TION WITH
47	ZEESHAN KHAN	M.SC. PHYSICS (SEM-IV) 2018-2019	SYNTHESIS, CHARACTERIZATION AND NONLINEAR ABSORPTION OF ZINC OXIDE DOPED PMMA FILMS	IN-HOUSE
46	FARIDA PARVEEN	M.SC. PHYSICS (SEM-IV) 2018-2019	NONLINEAR OPTICAL PROPERTIES OF 1,2-BENZANTHRAQUINONE	IN-HOUSE
45	HIMANSHU KUMAR	M.SC. PHYSICS (SEM-IV) 2018-2019	STUDY OF OPTICAL GAIN OF RHODAMINE B	IN-HOUSE
44.	ZAHID IQUBAL	M.SC. PHYSICS (SEM-IV) 2018-2019	FLUORESCENCE RESONANCE ENERGY TRANSFER IN NAPHTHAZARIN AND MYOGLOBIN SYSTEM	IN-HOUSE
43.	MUZASIR HUSSAIN	M.SC. PHYSICS (SEM-IV) 2017-2018	NONLINEAR OPTICAL PROPERTIES OF BISMUTH FERRITE	IN-HOUSE
42.	SHAHIN PARVEEN	M.SC. PHYSICS (SEM-IV) 2016-2017	NONLINEAR ABSORPTION OF 2-HYDROXY-1,4-NAPHTHOQUINONE USING OPEN APERTURE Z-SCAN TECHNIQUE	IN-HOUSE
41.	MADHVI JHA	M.SC. PHYSICS (SEM-IV) 2016-2017	STRUCTURAL AND OPTICAL STUDY OF PURE AND Mo – DOPED BISMUTH FERRITE	IN-HOUSE
40.	SHABANA ARIF	M.SC. PHYSICS (SEM-IV) 2016-2017	CONDUCTANCE AND CHARGE STABILTY ANALYSIS OF BENZENE AND NAPHTHALENE BASED MOLECULAR SINGLE ELECTRON TRANSISTOR	IN-HOUSE
39.	KANCHJAN	M.SC. PHYSICS (SEM-IV) 2016-2017	STUDY OF MOLECULAR JUNCTION BASED ON THIOL ENDED THIOPHENE DIMER	IN-HOUSE
38.	MOHD ANAS	M.SC. PHYSICS (SEM-IV) 2015-2016	SIMULATION OF LASER RATE EQUATIONS FOR DYE LASER	IN-HOUSE
37.	MOHMAD JUNAID UL HAQ	M.SC. PHYSICS (SEM-IV)	STUDIES ON PULSED DYE LASER RESONANTOR	IN-HOUSE

		2015-2016		
36.	SOBIA HAMID BHAT	M.SC. PHYSICS (SEM-IV) 2015-2016	ELECTRONIC ABSORPTION SPECTRA OF 1,4-BENZOQUINONE AND ITS HYDROXY DERIVATIVES USING DENSITY FUNCTIONAL THEORY	IN-HOUSE
35.	HANA KHAN	M.TECH. (NANOTECH) SEM-IV 2014-2015	INVESTIGATION OF STRUCTURAL AND NONLINEAR OPTICAL PROPERTIES OF TELLURIUM DOPED ZINC OXIDE	CNSNT
34.	MD. ZUNUN RABAANSARI	M.TECH. (NANOTECH) SEM-IV 2014-2015	STUDY OF ADSORPTION OF TOXIC GAS ON TITANIUM DIOXIDE SURFACE BY DFT METHOD	CNSNT
33.	AMIR MANSORI	M.TECH. (NANOTECH) SEM-IV 2014-2015	SYNTHESIS OF CADMIUM SULPHIDE NANO PARTICLES AND THEIR FLUORESCENCE RESONANCE ENERGY TRANSFER (FRET) STUDIES	CNSNT
32.	ASHISH CHAUDHARY	M.SC. PHYSICS (SEM-IV) 2014-2015	ANALYTICAL STUDY OF DARK - HOLLOW LIGHT BEAMS	IN-HOUSE
31.	NEELAM SHEORAN	M.SC. PHYSICS (SEM-IV) 2014-2015	ANALYSIS OF RAMAN SPECTRA OF ORGANIC SOLVENTS	IN-HOUSE
30.	UMER MUSHTAQ	M.SC. PHYSICS (SEM-IV) 2014-2015	STUDY OF NONLINEAR REFRACTION AND ABSORPTION FOR 1,5-DIHYDROXY ANTHRAQUINONE	IN-HOUSE
29.	GARIMA	M.SC. PHYSICS (SEM-IV) 2014-2015	PROPAGATION CHARACTERISTICS OF FIBRE LP MODES	IN-HOUSE
28.	MOHINI FATIMA	M.TECH. (NANOTECH) SEM-IV 2013-2014	COMPUTATIONAL STUDY OF HYDROGEN STORAGE ON CALCIUM-DECORATED CARBON NANOTUBES	CNSNT
27.	AMIR MUSHTAQ	M.TECH. (NANOTECH) SEM-IV 2013-2014	FUNCTIONALIZATION OF CARBON NANOTUBES WITH DYE AND STUDY OF THEIR NONLINEAR OPTICAL PROPERTIES	CNSNT
26.	JYOTI SHARMA	M.SC. PHYSICS (SEM-IV) 2013-2014	NONLINEAR ABSORPTION IN PHENOXAZONE-660 DYE-DOPED POLYMER FILM UNDER CW LASER EXCITATION	IN-HOUSE
25.	NAVJYOTI BORA	M.SC. PHYSICS (SEM-IV) 2013-2014	CONCENTRATION EFFECT ON NON LINEAR PROPERTIES OF 1,4-DIHYDROXY 9,10 ANTHRAQUINONE BY Z-SCAN TECHNIQUE	IN-HOUSE

24.	TANVI KOHLI	M.SC. PHYSICS (SEM-IV) 2013-2014	STUDY OF DECAY TIME OF 200 PPM OF NITROGEN DIOXIDE GAS AT 50MILLIBAR AND 100MILLIBAR PRESSURES USING PHASE SHIFT CRDS TECHNIQUE	DRDO
23.	ZIYAD S. KHIDIR	M.SC. PHYSICS (SEM-IV) 2013-2014	EFFECT OF SOLVENT ON THE OPTICAL GAIN OF 1,4-DIAMINO-9,10- ANTHRAQUINONE	IN-HOUSE
22.	AAS MOHAMMAD	M.SC. PHYSICS (SEM-IV) 2012-2013	STUDY OF DECAY TIME FOR VACCUM AND NO2 AT 590 PPM USING PHASE SHIFT CRDS TECHNIQUE	DRDO
21.	HANA KHAN	M.SC. PHYSICS (SEM-IV) 2012-2013	NONLINEAR OPTICAL PROPERTIES OF DYE DOPED POLYMER FILM	IN-HOUSE
20.	SAMI AHMAD	M.TECH. (NANOTECH) SEM-IV 2011-2012	FOSTER'S RESONANCE ENERGY TRANSFER BETWEEN RHODAMINE B AND CARBON NANOTUBES	CNSNT, JMI
19.	ALI JAN ADIL	M.SC. PHYSICS (SEM-IV) 2011-2012	NONLINEAR OPTICAL PROPERTIES OF 1,2-DIAMINO-9,10- ANTHRAQUINONE	IN-HOUSE
18.	AMIR MUSHTAQ	M.SC. PHYSICS (SEM-IV) 2011-2012	OPTICAL GAIN OF PHENOXAZONE 660	IN-HOUSE
17.	YOGESH	M.SC. PHYSICS (FINAL) 2011-2012	CAVITY RING-DOWN TECHNIQUE FOR MEASUREMENT OF REFLECTIVITY OF HIGH REFLECTIVITY MIRRORS WITH HIGH ACCURACY	DRDO
16.	ARSHI JAMAL	M.SC. PHYSICS (FINAL) 2010-2011	REVERSE SATURABLE ABSORPTION OF RHODAMINE B AT LOW INTENSITIES USING CW LASER AT 532 NM	IN-HOUSE
15.	JENU JOHN	M.SC. PHYSICS (FINAL) 2010-2011	STORAGE OF HYDROGEN ON SILICON NANOTUBE- A COMPUTATIONAL STUDY	IN-HOUSE
14.	SANGEETA	M.SC. PHYSICS (FINAL) 2010-2011	OPTICAL GAIN OF RHODAMINE-B USING LASER INDUCED FLUORESCENCE METHOD	IN-HOUSE
13.	PRATIBHA	M.SC. PHYSICS (FINAL) 2009-2010	STUDY OF OPTICAL GAIN OF 1,4-DIAMINO-9,10-ANTHRAQUINONE	IN-HOUSE
12.	HARDEEP KUMAR	M.SC. PHYSICS (FINAL) 2009-2010	SOLVENT EFFECT ON ABSORPTION AND LASER INDUCED FLUORESCENCE SPECTRA OF 5,8-DI HYDROXY-1,4-NAPHTHOQUINONE	IN-HOUSE
11.	SUSHMA CHAUHAN	M.SC. PHYSICS (FINAL) 2009-2010	STUDY OF FLUORESCENCE ENERGY TRANSFER IN QUNIZARINE-C60 SYSTEM	IN-HOUSE

10.	LAL KISHORE SAH	M. SC. ELECTRONICS (FINAL) 2009-2010	FABRICATION OF ZNO THIN FILM BY SOL-GEL METHOD AND ITS CHARACTERIZATION	IN-HOUSE
9.	AQUIL AHMAD	M.SC. PHYSICS (FINAL) 2008-2009	SOLVENT EFFECT ON ABSORPTION AND LASER INDUCED FLUORESCENCE SPECTRA OF 1,4-DI AMINO-9,10-ANTHRAQUINONE	IN-HOUSE
8.	ANANT KUMAR SINHA	M.SC. PHYSICS (FINAL) 2008-2009	FLUORESCENCE QUANTUM YIELD OF RHODAMINEB IN DIMETHYL SULPHOXIDE	IN-HOUSE
7.	NIKHAT ANJUM	M.SC. PHYSICS (FINAL) 2008-2009	FLUORESCENCE RESONANCE ENERGY TRANSFER IN QUINIZARINE-C70 SYSTEM	IN-HOUSE
6.	SONIA	M.SC. PHYSICS (FINAL) 2008-2009	ELECTRONIC STRUCTURE AND SPECTROSCOPIC PROPERTIES OF FLUORANTHENE AND FLUORENE IN BORIC ACID GLASS	IN-HOUSE
5.	MD. SHAHZAD KHAN	M.SC. PHYSICS (FINAL) 2007-2008	ELECTRONIC STRUCTURE AND SPECTROSCOPIC PROPERTIES OF FLUORANTHENE AND BENZO (K) FLUORANTHENE USING EXTENDED HUCKEL THEORY	IN-HOUSE
4.	M. IMRAN	M.SC. PHYSICS (FINAL) 2007-2008	SOLVENT EFFECT ON ABSORPTION AND FLUORESCENCE SPECTRA OF 1,4-NAPHTHOQUINONE AND DETERMINATION OF DIPOLE MOMENT OF ITS FIRST EXCITED STATE	IN-HOUSE
3.	MD. HASHMUDDIN	M.SC. PHYSICS (FINAL) 2007-2008	OPTICAL SPECTROSCOPY OF 1,4-DIHYDROXY-9,10-ANTHRAQUINONE AND DETERMINATION OF ITS FLUORESCENCE QUANTUM YIELD	IN-HOUSE
2.	AMBUJ BHUSN JAISWAL	M.SC. PHYSICS (FINAL) 2007-2008	ELECTRONIC ABSORPTION SPECTRA OF RADICAL CATIONS OF ANTHRACENE AND PHENANTHEREN	IN-HOUSE
1.	ROOP CHAND	M.SC. PHYSICS (FINAL) 2006-2007	ELECTRONIC ABSORPTION SPECTRA OF NAPHTHOQUINONE AND ITS 2-HYDROXY DERIVATIVE USING EXTENDED HUCKEL THEORY	IN-HOUSE





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75. A facile green synthesis of functionalized carbon quantum dots as fluorescent probes for a highly selective and sensitive detection of Fe<sup>3+</sup> ions  
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