

## RESUME

Title (Ms/Mr/Dr/Prof )	Dr.	FirstName	VARSHA	LastName	.	Photograph
Designation	ASSISTANT PROFESSOR					
Department	PHYSICS					
Address (Official)	1 <sup>st</sup> floor, Science block, Department of Physics, Kalindi College, University of Delhi-110008, India.					
Phone No.						
Email	<a href="mailto:msvarsha@kalindi.du.ac.in">msvarsha@kalindi.du.ac.in</a>					
<b>Education</b>						
Subject	Institution	Year	Details			
Ph.D.	UNIVERSITY OF DELHI	2024	Response of quantum heterostructures to external fields			
GATE	IIT KANPUR	DEC,2015				
NET	CSIR	Dec,2014				
M.Sc	UNIVERSITY OF DELHI	2013-2015				
B.Sc(H) PHYSICS	UNIVERSITY OF DELHI	2010-2013				
<b>CareerProfile</b>						
Organisation/Institution	Designation	Duration	Role			
Department of physics, Kalindi college	ASSISTANT PROFESSOR(AD-HOC)	~7.5YEAR (since 20/07/2017 to 24/02/2024)	Teaching undergraduate students			
Department of physics, Kalindi college	ASSISTANT PROFESSOR(Permanent)	From 24/02/2024 to till date	Teaching undergraduate students			
<b>Research Interests/Specialization</b>						
Quantum Heterostructures, Nanomaterials, Optical properties, External perturbation Behavior of quantum heterostructures, Condensed Matter Physics						
<b>Administrative Assignments / Contribution to corporate life</b>						

- Convenor, website committee of Physics department 2024-25
- Co-Convenor for Admission Committee for Humanities 2024-25
- Co-Convenor for Student feedback & student satisfaction survey for science students 2024-25
- Co-Convenor PHYSITHON Society 2022 to 2024
- Co-Convenor, Poster/Banner committee for Alumni meet 2023
- Member, ECA committee, 2024-25
- Member, Committee for Consultancy & Internship, 2024-25
- Member, Stage decoration and rangoli committee for Oath Ceremony and Fresher's welcome 2022-23
- Co-Convenor, Rangoli and Lamp lighting Committee for Orientation Program 2023-24
- Member, AQAR Core Committee, 2022
- Member, Creative writing competition during LEHREN, 2023
- Member, Rangoli Club, 2021,2022, 2023
- Member, Disaster Management Cell, 2022
- Member, Seating Arrangement and Shamiyana Committee for Oath Ceremony and Fresher's Welcome 2023
- Member, Yoga and Areobics Club , 2017-2020
- Member, PHYSICOM SOCIETY from 2017-2021
- Member, PHYSITHON Society since 2019
- Member, Fresher's committee, Refreshment distribution, stage decoration since 2017
- Member, Organizing Committee of the workshop "QUANTUM PHYSICS:AN INSIGHT" organized by NASI-DELHI CHAPTER and KALINDI COLLEGE
- Member, Annual Report Committee 2020, 2021,2022,2023
- Member, Swachhta Abhiyan, Science block, first floor since 2017
- Member , Stage Decoration Committee , LAHREN 2018,2019,2020
- Organizer and Trainer of "SKILL ENHANCEMENT WORKSHOP FOR LABORATORY STAFF" held on 13-14 March,2018, organized by Internal Quality Assurance Cell & Science Departments at KALINDI COLLEGE
- Member , Placement Cell Committee 2017,2021,2022
- Member, Website Committee 2021
- Member,Academic Audit Committee AQAR since 2017
- Member, Entrepreneurship Cell, Vyavsaay 2020
- Member, CRITERION II -TEACHING-LEARNING AND EVALUATION COMMITTEE since 2017
- Judge for the League of Leaders, inter-college competition organized by Entrepreneurship Cell, Vyavsaay on 23<sup>rd</sup> March, 2021.
- External Judge for Debate and Climate Cooking event at Annual Geo Fest "RESURGENCE 2023" on the topic "Climate Change : sinking domains of nature ( a light on joshimath event)" on 10th Feb, 2023 by Geography department.
- External Judge for ConWin- Contest for women & Innovation /Start-up Idea event at Women leader conclave 2023 and Inter-college Fest on 20<sup>th</sup> March, 2023 by Women's development cell, Gender sensitization committee and Transgender cell.

<b>Teaching Experiences (Subject/Courses taught)</b>
Total Teaching Experience~7.5year
<b>THEORY</b> <b>Nanomaterials and it's Application</b> <ul style="list-style-type: none"> <li>➤ B.Sc. (H) Physics IIInd year(CBCS)</li> </ul> <b>Waves and optics</b> <ul style="list-style-type: none"> <li>➤ Generic Physics-II(CBCS)</li> </ul> <b>Solid State Physics</b> <ul style="list-style-type: none"> <li>➤ Generic Physics-II(UGCF-NEP)</li> </ul> <b>Digital, Analog and Instrumentation</b> <ul style="list-style-type: none"> <li>➤ Generic Physics-I(CBCS)</li> </ul> <b>Analog Systems and Application</b> <ul style="list-style-type: none"> <li>➤ B.Sc. (H) Physics IIInd year(CBCS)</li> </ul> <b>Mathematical Physics-III</b> <ul style="list-style-type: none"> <li>➤ B.Sc. (H) Physics IIInd year(CBCS,UGCF-NEP)</li> </ul> <b>Skill Enhancement paper</b> <ul style="list-style-type: none"> <li>➤ B.Sc. (H) IIInd year,( NUMERICAL ANALYSIS)</li> <li>➤ B.Sc. (PS) IIIrd year,(NUMERICAL ANALYSIS)</li> <li>➤ B.Sc. (H) Physics, IIInd Year(ELECTRICAL CIRCUITS AND NETWORK SKILLS)</li> <li>➤ B.Sc. (PS) IIInd year,(BASIC INSTRUMENTATION SKILLS)</li> <li>➤ B.Sc. (PS) IIIrd year,(ELECTRICAL CIRCUITS AND NETWORK SKILLS)</li> <li>➤ B.Sc. IIIrd year, (Document Preparation &amp; Presentation Software)</li> </ul>
<b>Professional Skills</b>
Programing in Matlab, C/C++, Scilab, Python, MS office, Google Forms, Google Meet, Google classroom, Zoom etc.
<b>Research Guidance</b>
Project Guidance to students of B.Sc. (H) (Sweety, Anshu, Sumedha, Mansi Mann) and B.Sc Physical Science (Devika, Lakita, Manjaree, Shubhangi) students at Kalindi College(University of Delhi) in 2019.
<b>Publication (Peer Reviewed/Indexed Journals)</b>

Year of Publication	Title	Journal (Name of the journal. Vol Issue ISSN)	Co-Author
2020	<b>Study of Optical properties of Wannier-Mott Exciton in Spherical Quantum Dot in Kratzer Potential</b>	AIP Conference Proceedings, 2220, 020154(2020) ISBN:978-0-7354-1976-6, ISSN:0094243X Impact factor: 0.40 Doi: <a href="https://doi.org/10.1063/5.0002124">https://doi.org/10.1063/5.0002124</a>	<b>Varsha</b> , Prof. Poonam Silotia, Dr. Vinod Prasad
2021	<b>Wetting Layer and Size Effects on the Nonlinear Optical Properties of Semi Oblate and Prolate SiGe/Si Quantum Dots</b>	Current Applied Physics, 25, 1-11(2021), ISSN:15671739 Impact factor: 2.856 Doi: <a href="https://doi.org/10.1016/j.cap.2021.02.004">https://doi.org/10.1016/j.cap.2021.02.004</a>	M. Kria, <b>Varsha</b> , M. Farkous, V. Prasad, F. Dujardin, L. M. Perez, D. Laroze, E. Feddi
2021	<b>Quantum Confined Stark Effect on the Linear and Nonlinear Optical Properties of SiGe/Si Semi Oblate and Prolate Quantum Dots Grown in Si Wetting Layer</b>	Nanomaterials, 11(6), 1513(2021) ISSN: 20794991 Impact factor: 5.719 Doi: <a href="https://doi.org/10.3390/nano11061513">https://doi.org/10.3390/nano11061513</a>	<b>Varsha</b> ; M. Kria, J.E. Hamdaoui, L.M. Pérez, V. Prasad, M. El-Yadri, D. Laroze, E. Feddi
2022	<b>Polaronic corrections on magnetisation and thermodynamic properties of electron-electron in 2D systems with ashba spin-orbit coupling</b>	Journal of Magnetism and Magnetic Materials, 551, 169042 (2022) ISSN: 3048853 Impact factor 2.993 Doi: <a href="https://doi.org/10.1016/j.jmmm.2022.169042">https://doi.org/10.1016/j.jmmm.2022.169042</a>	K. Lakaal, M. Kria, J. E. Hamdaoui, <b>Varsha</b> ; V. Prasad, V. V. Nautiyal, M. El-Yadri, L.M. Pérez, D. Laroze, E. Feddi
2022	<b>Pressure- and temperature-dependent EIT studies in a parabolic quantum dot coupled with excitonic effects in a static magnetic field</b>	Pramana- Journal of Physics, 96, 81(2022), ISSN : 3044289 Impact Factor: 2.219 DOI: <a href="https://doi.org/10.1007/s12043-022-02326-x">https://doi.org/10.1007/s12043-022-02326-x</a>	Monica Gambhir, <b>Varsha</b> and Vinod Prasad
2022	<b>Hydrogenic impurity effect on optical properties of Wannier-Mott exciton confined in a spherical quantum dot with Kratzer potential under magnetic field</b>	Revista Mexicana de Física, 68(5), 050504 (2022), ISSN : 0035001X Impact Factor: 1.702 DOI: <a href="https://doi.org/10.31349/RevMexFis.68.050504">https://doi.org/10.31349/RevMexFis.68.050504</a>	<b>Varsha</b> , Rajesh Giri, Monika Arora, Vinod Prasad
2022	<b>Rashba effect on linear and nonlinear optical properties of a cylindrical core/shell heterojunction quantum dot</b>	Frontiers in Physics- Optics and Photonics, 10, 942758(2022). ISSN : 2296424X Impact Factor: 3.718 DOI: <a href="https://doi.org/10.3389/fphy.2022.942758">https://doi.org/10.3389/fphy.2022.942758</a>	M. Kria, Vijit V. Nautiyal, K. Lakaal, J. El Hamdaoui, L. M. Perez, <b>Varsha</b> , D. Laroze, V. Prasad, G. Long, E. Feddi
2022	<b>Lattice deformation and potential effects on linear and nonlinear</b>	The European Physical Journal Plus, 137,	<b>Varsha</b> , K. Lakaal, M. Kria, J. El Hamdaoui, V. Prasad, E.

	<b>optical properties of doped SiGe quantum dot encapsulated in Si matrix</b>	1340(2022). ISSN : 21905444 Impact Factor: 3.758 DOI: <a href="https://doi.org/10.1140/epjp/s13360-022-03530-9">https://doi.org/10.1140/epjp/s13360-022-03530-9</a>	Feddi, D. Laroze, L. M. Pérez, M. E. Mora Ramos
2023	<b>Anomalous Stark effect and optical properties of exciton in a quantum dot with linear potential under ionized donor hydrogenic impurity</b>	Current Applied Physics, 48, 17-28(2023), ISSN:15671739 Impact factor: 2.856 Doi: <a href="https://doi.org/10.1016/j.cap.2023.01.004">https://doi.org/10.1016/j.cap.2023.01.004</a>	<b>Varsha</b> , Monika Arora, Monica Gambhir, Vinod Prasad
2023	<b>Effect of electric and magnetic field on thermal property of two dimensional harmonic oscillator</b>	Results in Physics, 45, 106225(2023) ISSN: 22113797 Impact factor: 4.565 DOI: <a href="https://doi.org/10.1016/j.rinp.2023.106225">https://doi.org/10.1016/j.rinp.2023.106225</a>	Monika Arora, Rajesh Giri, <b>Varsha</b> , Kirtee Kumar, Chanchal Yadav, Bhavna Vidhani, Monica Gambhir, Vinod Prasad
2023	<b>Optical properties of donor impurity in Yukawa like potential: Application to SiGe/Si and Si/SiGe</b>	Physica Scripta, 98, 055914(2023) ISSN: 14024896 Impact factor: 3.081 DOI: <a href="https://doi.org/10.1088/1402-4896/acc7d5">10.1088/1402-4896/acc7d5</a>	<b>Varsha</b> , M. Kria, Vijit V. Nautiyal, K. Lakaal, D. Laroze, L.M. Pérez, V. Prasad, M. El-Yadri, and E. Feddi
2023	<b>Enhancement of persistent currents and magnetic fields in a two dimensional quantum ring</b>	Scientific Reports, 13, 15486(2023) ISSN: 20452322 Impact factor: 4.6 DOI: <a href="https://doi.org/10.1038/s41598-023-42417-2">10.1038/s41598-023-42417-2</a>	Vinod Prasad, Monika Arora, <b>Varsha</b>

### **Seminar/Workshop/Conferences Presentation/Organisation**

#### **Workshop**

1. Participated in National workshop on “**MATLAB and It's Applications**” organized by Rajasthan Technical University, Kota and Sri Balaji College of Engineering and Technology held from 04/01/2021-08/01/2021.
2. Participated in National workshop on “Challenges of Teaching Physics Laboratory Courses in Online Mode” organized by Kalindi College, University of Delhi with National Academy of Sciences(NASI), from 23rd Jan 2021 to 25th Jan 2021.
3. Member of “**QUANTUM PHYSICS: AN INSIGHT**” held on 25-26 Oct, 2017, organized by **NASI-DELHI CHAPTER** and **KALINDI COLLEGE**.
4. Organizer and Trainer of “**SKILL ENHANCEMENT WORKSHOP FOR LABORATORY STAFF**” held on 13-14 March, 2018, organized by Internal Quality Assurance Cell & Science Departments at **KALINDI COLLEGE**.
5. Participated in “**SUPERSTRUCTURE & R-MATRIX CODES**”, organized by **THE OHIO STATE UNIVERSITY, USA**, held on feb 10-march 5, 2014.
6. Attended 3 days workshop on “**Computational Physics in Applied Research**” organized by Department of Applied Physics, Gautam Buddha University from 25-27<sup>th</sup> July 2019.
7. Participated in two-week online workshop on “Comprehensive e-Learning to e-training guide for administrative work” organized by Teaching learning centre, Ramanujan College, University of Delhi, sponsored by MHRD, Pandit Madan Mohan Malaviya National Mission On Teachers and Teaching from 25<sup>th</sup> May, 2020 to 5<sup>th</sup> June, 2020.
8. Member, Organizing Committee of Online National Workshop on “Challenges of Teaching Physics Laboratory Courses in Online Mode” organized by Department of Physics under the aegis of IQAC Kalindi College in Association with Department of Physics and Astrophysics, University of Delhi

and The National Academy of Sciences (NASI), Delhi Chapter from 23<sup>rd</sup> -25<sup>th</sup> Jan, 2021.

9. Member, Organizing Committee of Two-day online workshop on “Skill Enhancement by ICT Learning in the Period of Online Knowledge Exchange” from 9<sup>th</sup> -10<sup>th</sup> Dec, 2020 organized by Department of Physics, IQAC, Kalindi College.
10. Member, Organizing Committee of Two-day National workshop on “**Fascinating Science and Indian Contributions**” from 28<sup>th</sup> - 29<sup>th</sup> Oct, 2022 organized by the Department of Physics, Kalindi College under the aegis of the National Academy of Sciences (NASI), Delhi Chapter in collaboration with Indraprastha Vigyan Bharati (VIBHA) and SHAKTI.
11. Event coordinator for a workshop on “Data Visualization with TABLEAU” on 27<sup>th</sup> March 2023 organized by Physithon-The Physics Society in collaboration with Kryptus-The Placement Cell of Kalindi college.

#### **Faculty Development Programme/Training Programme**

1. Participated in “**INTRODUCTION TO SCILAB**” organized by Department of Physics, HANSRAJ COLLEGE, UNIVERSITY OF DELHI held on 22-23 sept. 2017, sponsored by DBT
2. Participated in “**APPLIED PHYSICS AND EMBEDDED SYSTEMS DESIGN**” held on 14-15<sup>th</sup>dec, 2017 at RAJDHANI COLLEGE, UNIVERSITY OF DELHI.
3. Participated in one week FDP on “**Recent Trends in Material Science and Engineering**” organized by **IEEE EDS Delhi Chapter and Department of Applied Physics, DTU** on 17<sup>th</sup> -21<sup>st</sup>September, 2018.
4. Attended one-week faculty development programme on “Recent advances in science & technology” organized by RPS group of institutions, Mahendergarh, Haryana (NCR) from 21<sup>st</sup> - 27<sup>th</sup> May, 2020.
5. Participated in one week FDP on “राजभाषा हिन्दी का व्यावहारिक प्रयोग”, organized by department of Hindi in collaboration with IQAC and Research committee of Kalindi College, University of Delhi from 22<sup>nd</sup> – 28<sup>th</sup> June 2023.
6. Participated in Two Week (Online) Training Programme on “**NEP 2020 Orientation & Sensitization Programme**” organized by Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi on 15<sup>th</sup> -30<sup>th</sup> December, 2023.

#### **National Conference/ Seminar/ Presentation**

1. Participated in seminar organized under auspice of the innovation project “TO DEVICE A COST EFFECTIVE SET UP FOR CELL IDENTIFICATION, CHARACTERISATION AND SEPARATION”, organized by Gargi college, University of Delhi, held on 12<sup>th</sup> April 2013.
2. Poster competition in National seminar organized by Venkiteshwar College, University of Delhi, 2012 and at Gargi College, University of Delhi, 2013.
3. Participated in CSIR SPONSORED NATIONAL CONFERENCE ON CURRENT AND FUTURE PERSPECTIVES IN NANOTECHNOLOGY : “NANOWORLD-2018” held on April 12-13, 2018, organized by Department of Physics, Shivaji College, University of Delhi.
4. Participated in the National Conclave on “BIODIVERSITY FOR EVERYONE’S LIFE” organized by Miranda House College and IBSD Manipur on 31<sup>st</sup> august, 2018.
5. Participated in a One-day Seminar on “Life and Works of Prof. M N Saha and Prof. S. N. Bose” organized by PMSE department,JIIT, Noida on 15th September, 2018.
6. Attended National seminar on “Nuclear, Particle & Accelerator Physics” Jointly organized by Department of Physics, Kalindi College, University of Delhi and The National Academy of Sciences(NASI), India-Delhi Chapter on 6<sup>th</sup> Nov. 2019.
7. Participated in National seminar on “Exploring Physics with Experts!!” organized by Kalindi College, University of Delhi with National Academy of Sciences(NASI) on 10/02/2021.
8. Participated in an “Online Lecture Series” organized by Indian Association of Physics Teachers(IAPT)Regional Council and Delhi State Science Teacher's Forum, on 01/08/2020.
9. Participated in National Conference on “Characterization techniques for smart Materials” organized by Department of Physics, College of Basic Sciences and Humanities, CCS Haryana Agricultural University from 15/01/2021-16/01/2021.
10. Participated in National seminar on “Introduction to COMSOL Multiphysics” organized by

Deshbandhu College, University of Delhi on 25/03/2021.

11. Member, Organizing Committee of National Seminar, "Exploring Physics with Experts!!" organized by Department of Physics, Kalindi College in association with National Academy of Sciences(NASI), Delhi Chapter on 10<sup>th</sup> Feb, 2021.
12. Member, Organizing Committee of National Webinar series, "Omnipresent Physics: An Experiential Approach" organized by the Department of Physics, Kalindi College in association with National Academy of Sciences(NASI), Delhi Chapter on 19<sup>th</sup> Oct, 20<sup>th</sup> Oct, 22<sup>nd</sup> Oct, and 1<sup>st</sup> Nov, 2022.
13. Co-Convener for the national student seminar on "Recent advances in Physics:- Exploring the possibilities" from 19<sup>th</sup>-20<sup>th</sup> April, 2023 organized by Physithon-The Physics Society, Kalindi College .
14. Co-Convener for the national seminar on "Energy" on 27<sup>th</sup> April, 2023 organized by Physithon-The Physics Society, Kalindi College.
15. Co-Convener for the Inter-college event on G20 theme "Resonance" on 20<sup>th</sup> Oct, 2023 organized by Physithon-The Physics Society, Kalindi College.

### **Inter-National Conference/ Seminar/ Presentation**

1. Presented a paper entitled as "**Persistent Current and Magnetic Field in a 2-D Quantum Ring**" in the International Conference on "**Recent Advances in Functional Materials (RAFM-2022)**". Organised by Department of Physics, IQAC and Star College Scheme (GoI), ARSD College University of Delhi, held on 14-16 March, 2022.
2. Presented a poster on the topic "**Excitonic Transitions in a spherical Quantum dot modified by Kratzer Potential in magnetic Field**" at "**International Conference on Physics, Society and Technology(ICPST-2019)**" organized by Deshbandhu College and Department of Physics and Astrophysics from 17-19<sup>th</sup> January , 2019.
3. Participated in "**3<sup>rd</sup> International Conference on Condensed Matter & Applied Physics, ICC-2019**", organized by Department of Physics, Govt. Engineering College, Bikaner and presented posters titled (i) **Study of optical properties of Wannier-Mott exciton in spherical quantum dot in Kratzer potential in magnetic field** from 14<sup>th</sup> -15<sup>th</sup> Oct. 2019.
4. Presented an oral talk on "Generation and Enhancement of Currents and Magnetic Fields in a Two Dimensional Quantum Ring Using Short Electromagnetic Pulses" at **4<sup>th</sup> International Conference on Materials Science & Nanotechnology** organized by Yuktan Technologies in Valencia, Spain (in hybrid mode) from 23<sup>rd</sup> – 27<sup>th</sup> Oct, 2023.

### **Condensed Course**

Participated in the course on "ATOMIC AND MOLECULAR RADIATION PHYSICS: ASTRONOMY TO BIOMEDICINE", organized by THE OHIO STATE UNIVERSITY, USA, held on 10<sup>th</sup> Feb- 5<sup>th</sup> March, 2014.

### **Webinar**

1. Attended national webinar on "How to Publish Scholarly Books with Taylor and Francis" Organised by Swami Shradhdhanad College held on 29/11/2021, at Online.
2. Attended Webinar on "How to avoid predatory publishing? What researchers can do" organized by Research Committee under the aegis of IQAC, Kalindi College, held on July 24, 2021
3. Attended Webinar on "E-Content Development using Basic Tools", organized by E-Content Development Committee, Kalindi College, University of Delhi on 27<sup>th</sup> September, 2021.
4. Attended international webinar on "Introduction to MATLAB". Organised by Department of Mathematics, JSSATE Noida held on 17/09/2021, at Online.
5. Attended National Webinar on "Fight Against Tobacco" organized by the Anti-Tobacco Committee in collaboration with IQAC, Kalindi College, University of Delhi, on 16<sup>th</sup> October, 2021.
6. Attended webinar on "Intellectual Property Rights in Academics" organized by Research Committee in Collaboration with IQAC, Kalindi College on September 30, 2021
7. Attended a Webinar titled "Being Happy by Choice not Chance in COVID Times" organized by Kalindi College, University of Delhi on 1<sup>st</sup> May, 2020.



8. Attended a webinar titled “Conserve Water: Need of Future Generation” organized by ARSD College, University of Delhi on 3<sup>rd</sup> May, 2020.
9. Attended a Webinar titled “Search, Research and Publication Ethics” organized by Kalindi College, University of Delhi on 4<sup>th</sup> May, 2020.
10. Attended a Webinar titled “Understanding the Coronavirus: Some Good News” organized by Kalindi College, University of Delhi on 5<sup>th</sup> May, 2020.
11. Attended a National Webinar titled “Higher Education in India after COVID-19” organized by ARSD College, University of Delhi on 7<sup>th</sup> May, 2020.
12. Attended a National Webinar on “What is light: Evolution of Quantum Theory” organized by Kalindi College, University of Delhi on 12<sup>th</sup> May, 2020.
13. Attended a National Webinar on “Science, Society and Exponential Change: Reimagining the Future” organized by Kalindi College, University of Delhi on 13<sup>th</sup> May, 2020.
14. Organized a National Webinar on “An introduction to Measurement of light” organized by Kalindi College, University of Delhi on 13<sup>th</sup> May, 2020.
15. Attended a National Webinar on “Emerging out a Winner in Lockdown” organized by Kalindi College, University of Delhi on 14<sup>th</sup> May, 2020.
16. Attended a Webinar titled “Virtual Symposium on Emerging Areas of Photonics to Celebrate International Day of Light” organized by The National Academy of Sciences India(NASI) -Delhi Chapter on 16<sup>th</sup> May, 2020.
17. Attended a national webinar on “Research Methodology: An Overview” organized by ARSD College, University of Delhi on 12<sup>th</sup> May, 2020.
18. Attended a National Webinar on “Mindfulness & Stress Management: Living in the Times of COVID-19” organized by Department of Political Science, Kalindi College, University of Delhi on 15<sup>th</sup> May, 2020.
19. Attended webinar on “Narratives in Lockdown: A psychological perspective” organized by Department of Geography, Kalindi College, University of Delhi on 18<sup>th</sup> May, 2020.
20. Participated in webinar on “Basics of planning your research article writing” organized by Ambedkar University, Delhi, on 29<sup>th</sup> June, 2020.

#### **Awards & Distinctions**

- Awarded CSIR-LS (Lectureship) Dec 2014 Examinations organized by Council of Scientific and Industrial Research, India.
- Awarded CSIR-LS (Lectureship) June 2015 Examinations organized by Council of Scientific and Industrial Research, India.
- Qualified GATE– 2015 Examination, organized by IIT KANPUR.
- Qualified GATE– 2016 Examination, organized by IISC BANGLORE.

#### **Public Service/ University Service/ Consulting Activity**

*Internal examiner of computer programming and Numerical Analysis lab Dec 2017*  
*External Examiner of Numerical technique lab Dec 2017*  
*External examiner of GE MECHANICS lab, April 2018*  
*External Examiner of Quantum Physics Lab Dec 2018*  
*External Examiner of Thermal and Statistical Mechanics lab Dec 2018*  
*External Examiner of Statistical Mechanics lab April 2019*  
*External Examiner of Statistical Mechanics lab April 2022*  
*External Examiner of Solid State Physics lab April 2022*  
*External examiner for Waves and Optics lab Dec 2022*  
*External examiner for Solid State Physics lab Dec 2022*  
*External examiner for Advanced Mathematical Physics-1 lab Dec 2022*  
*External Examiner of Quantum Physics Lab Dec 2023*  
*External Examiner of Introduction to Electronics Lab Dec 2023*

#### **Evaluation of Answer Scripts**

- For exam Dec-2017, 2018,2019,2020,2021,2022 for the Waves and Optics paper
- For exam May-2018 for the Analog System and Application Paper



