


<b>Title</b> (Ms./Mr./Dr/ Prof.)	Dr.	<b>First Name</b>	Rashmi	<b>Last Name</b>	Menon	<b>Photograph</b>
<b>Designation</b>	Assistant Professor					
<b>Department</b>	Physics					
<b>Address</b> (Official)	Kalindi College, University of Delhi, East Patel Nagar, New Delhi-110008					
<b>Phone No.</b>	011-25787604, Fax: 011-25782505					
<b>Email</b>	<a href="mailto:rashmimenon@kalindi.du.ac.in">rashmimenon@kalindi.du.ac.in</a>					
<b>Education</b>						
<b>Subject</b>	<b>Institution</b>	<b>Year</b>	<b>Details</b>			
B.Sc. (H) Physics	Acharya Narendra Dev College, DU	2002				
M.Sc. Physics	Hindu College, DU	2004				
NET	CSIR-UGC	2004				
PhD	Department of Physics and Astrophysics, DU	2012	Growth and Characterization of ZnO for UV application			
<b>Career Profile</b>						
<b>Organization/ Institution</b>	<b>Designation</b>	<b>Duration</b>	<b>Role</b>			
D.A.V Centenary College, Faridabad, MDU	Assistant Professor (Ad-hoc)	26-07-2005 to 31-03-2006 08 months,06 days	Teaching Undergraduate Classes			
Acharya Narendra Dev College, Govindpuri, Delhi University	Assistant Professor (Ad-hoc)	28-10-2007 to 30-04-2009 01years,06months,02 days	Teaching Undergraduate Classes			
Keshav Mahavidyalaya, Pitampura, Delhi University	Assistant Professor (Ad-hoc)	18-07-2009 to 23-10-2009 03 months,05 days	Teaching Undergraduate Classes			
Kalindi College, Patel Nagar, Delhi University	Assistant Professor	28-10-2009 to Till Date	Teaching Undergraduate Classes			
<b>TOTAL TEACHING EXPERIENCE: - 16 years</b>						
<b>Research Interests/Specialization</b>						
Material Science / Electronics						
<b>Administrative Assignments / Contribution to corporate life</b>						
<b>2011-2012</b>						
1. Convener of Rangoli Competition in “Lehren-College Cultural Fest”.						
<b>2012-2013</b>						
1. Co-Convener of PHYSCOM Society of College. 2. Co-Convener of “Bits & Bytes” Event organized by PHYSCOM Society of College. 3. Co-Convener of Annual Day Report Committee in “Annual Day Function”.						
<b>2013-2014</b>						
1. Co-Convener of PHYSCOM Society of College. 2. Co-Convener of “Bits & Bytes” Event organized by PHYSCOM Society of College. 3. Co-Coordinator of Power Point Presentation (PPT) of ECO CLUB in “Gyan Leher”.						

4. Convener of Rangoli Competition in “Lehren-College Cultural Fest”.
5. Co-Convener of Annual Day Report Committee in “Annual Day Function”.
<b>2014-2015</b>
1. Co-Convener of PHYSCOM Society of College.
2. Co-Convener of Rangoli Competition in “Lehren-College Cultural Fest”.
3. Co-Convener of Annual Day Report Committee in “Annual Day Function”.
<b>2015-2016</b>
1. Convener of Rangoli Competition in “Lehren-College Cultural Fest”.
2. Co-Convener of Annual Day Report Committee in “Annual Day Function”.
3. Member of NAAC committee for criteria II
<b>2016-2017</b>
1. Convener of Rangoli Competition in “Lehren-College Cultural Fest”.
2. Co-Convener of Annual Day Report Committee in “Annual Day Function”.
3. Member of NAAC committee for criteria II
<b>2017-2018</b>
1. Convener of Rangoli Competition in “Lehren-College Cultural Fest”.
2. Member of Annual Day Report Committee in “Annual Day Function”.
3. Member of NAAC committee for criteria II
<b>2018-2019</b>
1. Co-Convener of Rangoli Competition in “Lehren-College Cultural Fest”.
2. Member of Annual Day Report Committee in “Annual Day Function”.
3. Member of NAAC committee for criteria II
<b>2019-2020</b>
1. Co-Convener of Rangoli Competition in “Lehren-College Cultural Fest”.
2. Member of Annual Day Report Committee in “Annual Day Function”.
3. Member of NAAC committee for criteria II
<b>2020-2021</b>
1. Co-Convener of Annual Report 2019-2020.
2. Co-Convener of Rangoli Club.
3. Co-Convener of Physithon – The Physics Society.
4. Member, Criterion II, NAAC.
5. Member, Result Analysis Committee, Department of Physics, Kalindi College
6. Co-Convener of an inter-college online quiz competition, “ <i>PHYSICS PROMETHEUS</i> ” organized by Physithon-The Physics Society of Kalindi College held on 26/09/2020.
7. Co-Convener of a video making competition, “ <i>COLLOQUIUM.mp4</i> ” organized by Physithon-The Physics Society of Kalindi College held on 25/09/2020-28/09/2020
8. Co-Convener of online career counseling, “ <i>FUTURE.ly</i> ” organized by Physithon-The Physics Society of Kalindi College held on 29/10/2020.
9. Co-Convener of Webinar on “ <i>CHALLENGES OF ONLINE MODE OF EDUCATION</i> ” organized by Physithon-The Physics Society of Kalindi College held on 02/12/2020.
10. Technical Committee and Trainer in Online Workshop for University Laboratory “ <i>Skill Enhancement by ICT Learning in the Period of Online Knowledge Exchange</i> ” organized by Department of physics, Kalindi College held on 09/12/2020 and 10/12/2020.
11. Organizing Committee in Online Workshop on “ <i>Challenges of Teaching Physics Laboratory courses in Online Mode</i> ” organized by Kalindi College with The National Academy of Sciences India (NASI) - Delhi Chapter held on 23/01/2021 and 24/01/2021.
12. Co-Convener of an inter-college online event, “ <i>KUGELBLITZ'21</i> ” organized by Physithon-The Physics Society of Kalindi College held on 30/01/2021.
13. Organizing Committee in Online Seminar on “ <i>Exploring Physics with Experts!!</i> ” organized by Kalindi College with The National Academy of Sciences India (NASI) - Delhi Chapter held on 10/02/2021.
14. Co-Convener of Poster Making Competition organized by Physithon-The Physics Society in

collaboration with Anti-Tobacco Committee, Kalindi College held on 24/04/2021.

15. Co-Convener of an online Alumni Talk “ALUMNI TALK” organized by Physithon-The Physics Society of Kalindi College held on 24/04/2021.

**2021-2022**

1. Co-Convener of Physithon – The Physics Society.
2. Co-Convener of General Assembly for 3<sup>rd</sup> year students.
3. Member, Criterion II, NAAC.
4. Member, Result Analysis Committee, Department of Physics, Kalindi College
5. Member of Annual Report 2021-2022.
6. Member of Rangoli Club.
7. Member of Prospectus Committee 2021-22.

**2022-2023**

1. Co-Convener of Physithon – The Physics Society.
2. Co-Convener of General Assembly for 3<sup>rd</sup> year students.
3. Member, Committee for Collaboration and Exchange programmes
4. Co-Convener of Stage Decoration & Rangoli in Oath & Ceremony & Fresher Welcome 2022-23
5. Member, Criterion II, NAAC.
6. Member, Result Analysis Committee, Department of Physics, Kalindi College
7. Member of Rangoli Club.
8. Member of Prospectus Committee 2022-23
9. Member of Beautification of college in preparation of NAAC PEER team visit.

**2023-2024**

1. Convener, Prize Committee, Annual Day 2024
2. Member, Annual Report, Annual Day 2024
3. Member, Yearly Academic Journal-2024
4. Co-Convener of Physithon – The Physics Society.
5. Member, Criterion II, NAAC.
6. Member of Rangoli Club.
7. Member of Prospectus Committee 2023-24
8. Member, Plant Incubation Center
9. Member for DBT Scheme proposal preparation, Committee for Collaboration and Exchange programmes

**2024-2025**

1. Convener, NIRF
2. Co-Convener, Core Admission Committee 2024
3. Convener, Rangoli Club.
4. Member, Management Information System Committee

**Research Guidance**

NA

**Publication (Peer Reviewed/Indexed Journals)**

Year	Title	Journal (Name of the Journal. Vol Issue ISSN)	First /Corresponding /Sole/Co-Author
2008	Influence of stress on the structural and dielectric properties of RF magnetron sputtered zinc oxide thin film	J. Appl. Phys. 103, 094903; ISSN: -0021-8979	First Author
2008	Enhanced UV photo-response of Nanostructure Zinc Oxide (ZnO) thin film irradiated with pulsed laser	Proceedings of Opto- electronics and microelectronics Materials and Devices, Sydney, Australia, Art No. 4802091, pp 55-58; ISSN: - 1097-2137	Co Author

2009	Enhanced photo-response of Thermally treated Zinc oxide Ultra-violet photon detector with furnace method and pulsed laser Irradiation	Proceeding of IEEE Sensors Conference, IEEE Sensors, New Zealand, pp 437-440; ISSN: - 1530-437X	First Author
2011	Origin of stress in rf magnetron sputtered zinc oxide thin films	J. Appl. Phys. 109, 064905; ISSN: - 0021-8979	First Author
2012	Enhanced UV Photon-response of Tin Nano Cluster Loaded- laser Irradiated ZnO Thin film detector	Proceeding of MRS (mrsf10-1288-g06-42), MRS Fall Meeting, Boston, USA; ISSN: -0021-8979	First Author
2022	Conduction Mechanism in excess Bismuth doped Strontium Bismuth Niobate Ceramics	Journal of Solid-State Chemistry 307 (2022) 122825	Co Author
2022	Study of optical properties of SnO <sub>2</sub> thin films and its influence on gas sensing response	<i>Emerging Materials Research</i> , Volume 11 Issue 4, December 2022, pp. 486-494, ISSN 2046-0147	Co Author
2022	Effect of calcination temperature on structural, dielectric, and piezoelectric properties of strontium bismuth niobate ceramics	<i>Applied Physics A</i> (2022) 128: 793	Co Author
2024	Investigating the effect of coolant on cooling rate of engine oil used in automobile industry using Arduino interfaced temperature sensor	<i>Phys. Educ.</i> 59 (2024) 025026 (10pp)	Co Author
2024	Modeling Radioactive Decay Series Phenomenon Involving First-Order Differential Equation and Visualizing Solutions Using Open-Source Software XCOS		

#### Seminar/Workshop/Conferences Presentation/Organization

##### INTERNATIONAL CONFERENCES:

1. “Effect of stress and film thickness on photo response of ZnO UV photon detector”, **Rashmi Menon**, K. Sreenivas and Vinay Gupta, **International conference on Advanced Materials and Applications (ICAMA-2007)**, 15-17 November 2007, Shivaji University, Kolhapur, Maharashtra, India.
2. “Influence of processing pressure and gas composition on structural and electrical properties of sputtered Zinc Oxide thin film”, **Rashmi Menon**, Vinay Gupta and K. Sreenivas, **International conference on Advanced Materials and Applications (ICAMA-2007)**, 15-17 November 2007, Shivaji University, Kolhapur, Maharashtra, India.
3. “Enhanced photo response of ultrathin nanoscale ZnO UV photon detector”, **Rashmi Menon**, Srinivas and Vinay Gupta, **Indo-Australia Symposium on Multifunctional Nanomaterials Nanostructures and Application (MNNA 2007)** 19-21 December 2007, University of Delhi, Delhi
4. “Enhanced UV photo-response of Nano-structured Zinc Oxide (ZnO) thin film irradiated with pulsed laser”, Vinay Gupta, **Rashmi Menon**, K. Sreenivas, **Conference on Opto-electronics and microelectronics Materials and Devices (COMMAD-2008)**, Sydney, Australia.
5. “Photoconductive studies of Zinc Oxide Nanowires grown by Vapor-Liquid-Solid method”, **Rashmi Menon**, Arijit Chowdhury, H.H. Tan, C. Jagdish, K. Sreenivas and Vinay Gupta, **Sir Mark Oliphant Nanophotonic Down Under: Devices and Application (SMONP-2009)**, Melbourne, Australia

##### NATIONAL CONFERENCES:

1. “Vibrational and luminescence properties of vertically aligned and oriented ZnO nano-rods grown by pulsed laser deposition”, **Rashmi Menon**, Vinay Gupta, S.P Singh, K. Sreenivas and R.S. Katihar, **National Seminar on Multifunctional Nanomaterials**,

- Nanostructures and Application (MNNA-2006)**, 22-23 December 2006, University of Delhi, Delhi.
2. “*Effect of processing conditions on structural and electrical properties of sputtered ZnO films*”, **Rashmi Menon**, Amit Tanwar, K. Sreenivas and Vinay Gupta, **National Seminar on Electro ceramics (NSE-2007)**, 5-6 November 2007, GVM Girls College, Sonapat, Haryana.
  3. “*Stress and film thickness effect on photo response of ZnO UV photon detector*”, **Rashmi Menon**, Shibu Saha, K. Sreenivas and Vinay Gupta, **ISSS National Conference on MEMS, microsensors, smart materials, structures and system**, 16-17 November 2007, Ceeri, Pilani, Rajasthan.
  4. “*Nanostructured ZnO for UV detector applications*”. **Rashmi Menon**, Monika Tomar, Harish Kumar Yadav, K. Sreenivas and Vinay Gupta, **Nanosensors-2008**, 22-23 December 2008, I.I.T, Delhi

### WORKSHOPS/ SEMINARS:

1. Workshop on “*Wiki-educator: Open Educational Resources*” organized by Acharya Narendra Dev College, University of Delhi held on 3-5 October 2008 at Acharya Narendra Dev College.
2. Workshop on “*Multimedia Content Development*” organized by Acharya Narendra Dev College, University of Delhi held on 20-25 April 2009 at Acharya Narendra Dev College.
3. Workshop on “*ILLI Workshop Tier III*” organized by Kalindi College, University of Delhi, 16-28 April 2010 at Kalindi College.
4. Workshop on “*3D Printing*” organized by Cluster Innovation Centre, University of Delhi, 28 Feb-01 March 2015 at University of Delhi.
5. National Seminar on “*New Roles of Teachers in technology-Driven Higher Education*” organized by SGBT Khalsa College, University of Delhi held on 1/03/2017 SGBT at Khalsa College, University of Delhi, Delhi
6. National Seminar on “*A PARADIGM SHIFT TOWARDS EMPOWERMENT OF WOMEN (NSSC-2017)*”, organized by Kalindi College, University of Delhi held on 3-4 February 2017 at Kalindi College.
7. National Workshop on “*Quantum Physics: An Insight,*” organized by Kalindi College, University of Delhi held on 25-26 October 2017 at Kalindi College.
8. National Seminar on “*Nuclear, particle and Accelerator Physics*” jointly organized by Department of Physics, Kalindi College and The National Academy of Sciences (NASI) Delhi Chapter held on 06/11/2019 at Kalindi College
9. Online session on “*Training sessions by M-edu Professionals for effective functioning of e-office*” organized by IQAC, Kalindi College, University of Delhi held on 11/06/2020 at Kalindi College.
10. Webinar on “*Cyber Security, Safety, and Privacy in Today’s Digital World*” organized by Kalindi College NCEWB held on 17/05/2020 at Kalindi College.
11. National Webinar on “*Science, Society and Exponential Change: Reimagining the future*” organized by Department of Physics, Kalindi College held on 13/05/2020 at Kalindi College.
12. National Webinar on “*Emerging out a winner in Lockdown*” organized by Department of Physics, Kalindi College held on 14/05/2020 at Kalindi College.
13. National Webinar on “*What is Light: Evolution of Quantum Theory*” organized by Department of Physics, Kalindi College held on 12/05/2020 at Kalindi College.
14. Webinar on “*Material Science, Technology and Society*” organized by School of Physical Science, JNU held on 8-9 May 2020 at JNU, New Delhi.
15. National Webinar on “*An Introduction to measurement of Light*” organized by Department of Physics, Kalindi College held on 13/05/2020 at Kalindi College.
16. Online National Seminar on “*Exploring Physics with Experts!!*” organized by Kalindi College with The National Academy of Sciences India (NASI) - Delhi Chapter held on 10/02/2021.
17. Online Workshop on “*Challenges of Teaching Physics Laboratory courses in Online Mode*” organized by Kalindi College with The National Academy of Sciences India (NASI) - Delhi

Chapter held on 23-25, January 2021.

18. Online Awareness Program on “*National Digital Library of India*” organized by Kalindi College with IIT, Kharagpur and Human Resource Development Ministry, Govt. of India held on 04/08/2020 at Kalindi College.
19. National Webinar on “*Humanity’s Call, Vaccine for all Geopolitics of Vaccine: Access, R&D and Manufacturing*” organized by Kalindi College with Universal Access for Vaccine and Medicine & Swadeshi Shodh Sansthan held on 22/06/2021.
20. Hand on Training on “*E-Content development using Basic Tools*” organized by E-content Development Committee, Kalindi College held on 27/09/2021 at Kalindi College.
21. Webinar on “*Tools and Techniques for avoiding Plagiarism in E-Content development*” organized by E-content Development Committee, Kalindi College held on 09/11/2021 at Kalindi College.
22. Two-day online workshop on “*Entanglement Entropy and Holography*” under SLC Eminent Lecture Series 2021-22 organized by SHYAM LAL COLLEGE, University of Delhi held on 08/09/2021.
23. Online Workshop on “*Government e- Marketplace (GeM)*” organized by Central Purchase Committee, Bhaskaracharya College of Applied Sciences, University of Delhi under the aegis of IQAC, BCAS held on 27-28 January 2022.

#### **FACULTY DEVELOPMENT PROGRAM/ REFRESHER COURSE:**

1. Faculty Development Workshop on “Introduction to Scilab” organized by Hansraj College, University of Delhi sponsored by DBT held on 22-23 September 2017 at Hansraj College.
2. Faculty Development Programme in Online mode on “*Open-Source Tools for Research*” organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya, National Mission on Teachers, and Teaching held from 24 – 30, August 2021.
3. Refresher Course of two weeks in Online mode on “*Advanced Research Methodology*” organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya, National Mission on Teachers, and Teaching held from 21, June – 05, July 2022.
4. Four-Week Faculty Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya, National Mission on Teachers, and Teaching held from 27 March-23 April, 2024
5. Refresher Course for two weeks in “Energy Materials and Technology” conducted by Applied Science Department from 30/04/2024 to 13/05/2024 (Two Weeks) at NITTTR, Chandigarh
6. Refresher Course (Interdisciplinary) for two-week in "ADVANCED RESEARCH METHODOLOGY" organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya, National Mission on Teachers, and Teaching held from 26 April-09 May, 2024
7. Faculty Development Programme for one week on “NEP 2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MMTP) of University Grants Commission (UGC) Organized by UGC-MMTTC (GAD-MMTTC), Sri Guru Tegh Bahadur Khalsa College, University of Delhi from 14th to 24th May 2024

#### **Awards/ Distinctions/ Fellowship**

Visiting Fellow in Department of Electronic Material Engineering, Research School of Physics and Engineering, Australian National University, Canberra, Australia from 1 June 2009 to 30 June 2009

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

NA

#### **Professional Societies/Memberships**

1. Life Member of Indian Association of Physics Teacher (IAPT), Kanpur
2. Life Member of Vijnana Bharti (VIBHA)

**Projects (Major Grants/ Collaborations)**

1. “Student Database System by C++”  
Principal Investigator: - Dr. Rashmi Menon and Dr. Aravind Kumar  
Tenure: -25/03/2016  
Sponsored: - Self Sponsored
2. “Investigation of Mechanics Problems through Computer Stimulation using Scilab”  
Principal Investigator: - Dr. Monika Bassi, Dr. Rashmi Menon, Dr. Majhar Ali and Ms.Varsha.  
Tenure: -23/09/19 to 20/03/2021  
Sponsored: - Kalindi College