

Dr. Mahima Kapoor

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Objective

Seeking a position as an Assistant Professor in a reputed institution, that will provide me a good platform to utilize my teaching & administration skills and will help me to grow my career.

Executive Summary

- Possess about Five years' experience as a lecturer (both teaching and administration)
- Thorough understanding of the subject with ability to convey the same to the students
- Rich Knowledge of various techniques and approaches applied in research
- Good communication and comprehension abilities
- Posses's knowledge about the internal administrative tasks that are performed within institutions

Personality Traits

- Strong interpersonal and organizational skills
- Good verbal and written skills
- Excellent leadership and Team Worker
- Positive attitude

Qualifications

- PhD from Dayalbagh Educational Institute (Deemed University) in 2013 (Awarded)
- M.Phil from Dayalbagh Educational Institute (Deemed University) in 2009
- M.Sc (Phy.) from Dayalbagh Educational Institute (Deemed University) in 2008
- B.Sc from Dayalbagh Educational Institute (Deemed University) in 2006

Academic Research Projects

- PhD (3 years)

Thesis Title: Design, Fabrication and Analysis of Tunable Planar Microwave Devices Using EBG Structures.

- M.Sc (6 months)

Dissertation Title: A Study on Nano-crystalline Doped TiO₂ Powder for their use in Photo Splitting of Water.

- M.Phil (6 months)

Dissertation Title: Study of Photovoltaic Response of Bacteriorhodopsin Protein Thin Films.

Professional Experience

1. **Assistant Professor Physics at Oriental University Indore from Feb 2019 till date**
2. **Assistant Professor at Indian Academy Group of Institutions Bangalore from Dec 2017-Jan 2019**
Teaching UG & PG classes and Guiding M.Sc students in their dissertation work.
Internal Member for BOS
3. **Assistant Professor & HOD of Physics Department (July2016-Dec2016) at Maharani Kishori Memorial PG Collage Hodal, Haryana.**
 - Teaching UG & PG classes

4. Lecturer in Women's' Polytechnic (July 2014 to 2016) Dayalbagh Educational Institute (Deemed University) - Agra, U.P

- **Member of the Examination Committee.**
- **Member of the Time Table Committee.**
- Conducting course classes regularly and properly.
- Implement various teaching methods and procedures to maintain the standard of academic excellence.
- Carried out practical sessions with explanation about the purpose of the experiment and the procedures that follow to seek results.
- Conducting assessment exams and giving assignments to grade the student learning.
- Assign project work and help them to clarify their doubts regarding project and assignment.
- Organize workshops and arrange guest lecturer for providing additional knowledge for students
- Provide consultation to the student regarding their course objectives and career related matters.

4. Instructor in Women's' Polytechnic July 2013 to May 2014 Dayalbagh Educational Institute (Deemed University) - Agra, U.P.

- Conducted the subject lectures regularly, Taking labs, and helping the students in practical.
- Guided Diploma students to their project work.

5. Research Assistant in Department of Physics & Comp. Science, Dayalbagh Educational institute (Deemed University) 2010-2014.

Teaching and Research Interest

- Microwave and EM Theory
- Electromagnetic Band Gap Structures and their Applications
- Fabrication and Characterization of Ferromagnetic and Ferroelectric materials and thin films for High Frequency tunable devices.
- Biosensors
- Microwave tunable devices
- Electromagnetic Band gap Structures

Key Skills

- Network Analyzer
- CST Microwave Studio
- Photolithography
- R Soft Band Solve
- Spin Coating,
- Solgel
- Spray Pyrolysis

Software / Computer Proficiency

- Microsoft Office Excel, Word, Power Point
- Matlab, Mathematica
- Origin
- Auto CAD

Publications

1. Mahima Kapoor, K.S.Daya, G.S Tyagi , “Tunable wide Ka-bandstop honeycomb EBG filters with hexagonal basis”, in Journal of Electromagnetic Waves and Applications (JEMWA) Progress in Electromagnetic Research, VOL.9, NO.2, pp 177-182, MARCH 2014.
2. Mahima Kapoor, K.S.Daya, G.S Tyagi “Coupled Ring Resonator for Microwave Characterization of dielectric materials, Published in International Journal of Microwave and Wireless technologies VOL.4, NO.2, pp 241-246,2012.
3. Mahima Kapoor, K.S.Daya, G.S Tyagi, “Microwave Study of Planar Honeycomb EBG Lattice with Hexagonal Basis Points AEMC IEEE Applied Electromagnetic Conference, PP. 1-3, (IEEE Conf.Proc.) 2011.

Paper & Poster Presented in Conferences

1. Kevino Nisha, **Mahima Kapoor**, “ A Comparative review on Microwave Dielectric Material Characterization Techniques” 2nd international level Conference on “ Material Science and Technology” [ICMSAT- 2018] , Dharmapuri, Tamilnadu, 27-28 August 2018.
2. Aditaya Sharma, **Mahima Kapoor**, “ Study of Electromagnetic properties of Ni-Zn nano ferrites with their different method of preparation-A review” 2nd international level Conference on “ Material Science and Technology” [ICMSAT- 2018] , Dharmapuri, Tamilnadu, 27-28 August 2018.
3. F. Lalruatsanga, **Mahima Kapoor**, “Planar Microwave Sensors for the Characterization of Bulk and Nano Dielectric Materials”, 2nd international level Conference on “Material Science and Technology” [ICMSAT- 2018], Dharmapuri, Tamilnadu, 27-28 August 2018.
4. **Mahima Kapoor**, “ Comparative Study of Ring Resonator Sensors for Dielectric Characterization” National Symposium on Nano Science & Technology (NSNST-2018), Center for Nano Science and Engineering, Indian Institute of Science, Bangalore, 20-22 June, 2018.
5. **Mahima Kapoor**, K.S.Daya, “Effect of Surface Permeability of Nano Ferrite Thin Films of Honeycomb EBG Filters”, Oral Presentation in National Conference on Multifunctional Advance materials, Solan, Himachal Pradesh, 11-13 June 2014.
6. Sucheta Sharma, Mahavir Singh Verma, Soami Daya Krishnananda, **Mahima Kapoor**, “Magnetic and Microwave Properties of Substituted NZFO Spinal Nanoferrite and Co₂Z NanoHexaferrite” THE 11TH INTERNATIONAL CONFERENCE ON FERRITES, Japan April 2013
7. **Mahima Kapoor**, K.S.Daya, G.S Tyagi, “Microwave Study of Planar Honeycomb EBG Lattice with Hexagonal Basis Points” AEMC IEEE Applied Electromagnetic Conference –Kolkata 2011, 18- 22 Dec 2011.
8. **Mahima Kapoor**, K.S.Daya, G.S Tyagi, “Microwave Study of Planar Hexagonal Basis in Honeycomb Lattice Structure”, Oral presentation in National Conference on Recent Advances in Physics & Technologies held at Agra College, Agra, March 25-26, 2011.
9. **Mahima Kapoor**, K.S.Daya, G.S Tyagi, “Coupled Ring Resonator for Microwave Characterization of Dielectric Material”, Poster Presentation in National Conference of Material Research MR09 held at IIT Mumbai 2009.
10. **Mahima Kapoor**, K.S.Daya, G.S Tyagi, “Study of Coupled split Ring Resonator as A Building Block for Multipole Filters”, Oral Presentation in National Seminar on Physics and Technology of Sensors held at Jiwaji University, Gwalior 2009.

Conferences and Seminars Attended

1. National Symposium on Nano Science & Technology (NSNST-2018), Center for Nano Science and Engineering, IISc (Indian Institute of Science), Bangalore, 20-22 June 2018.
2. 10th Annual Conference of Karnataka Science and Technology Academy, Reva University, Bangalore, 18-19 January 2018.
3. National Conference on Multifunctional Advance materials, Shoolani University, Solan , H.P, 11-13 June 2014.
4. Seminar on Nano Photonics and Bio-Inspired system, Dayalbagh Educational Institute, March 2014.
5. Seminar on “Bridge between Physics & Biology”, Dayalbagh Educational Institute, March 2013.
6. IEEE Applied Electromagnetic Conference (AEMC) & IEEE Indian Antenna Week (IAW), Kolkata, Dec.2011.
7. National Conference on Recent Advances in Physics and Technologies – Agra College, March 2011.
8. Workshop on Virtual Teaching & Learning Labs (VITAL), Dayalbagh Educational Institute, January 2011.
9. National Symposium for Material research Scholars MR09 IIT Bombay May 2009.
10. Workshop on Advanced Characterization Techniques, IIT Bombay 2009.
11. National Seminar on Physics and Technology of sensor (NSPTS-14) Jiwaji University Gwalior March 2009.

Refresher/Orientation/Induction Training and Teaching Programs Attended

Attended Induction Programme for College Teachers organized by Centre of Excellence in Science and Mathematics Education at **IISER Pune** from 12 Nov -8 Dec 2018.

Student Guided

	Presently Guiding	Guided
M.Sc	3	3
M.Phil	-	-
PhD	-	-

Awards and Achievements

1. **Life Member of The Indian Science Congress Association.**
2. **Life Member of System Society of India.**
3. **Annual member of Indian Women Science Association**
4. **Project has approved and funded by MSME scheme of Government of India.**

Extra-Curricular Activities

- NSS Camp: Active participation in all NSS Activities held in Dayalbagh Educational institute
- Participated in, Pulse Polio Camp organized by NSS
- Prefect of the DEI Girl's Hostel
- Captain of faculty Football Team (Winner)
- Captain of Faculty Volleyball Team (Runner)
- First in Indian Group song at faculty level
- Second in Western group song at faculty level
- First in Mime at faculty level
- Third in Skit at faculty level

Hobbies

Drawing and Painting.
Singing
Outdoor games

Personal Information

Husband's Name: Mr. Naresh Kandhari

Father's Name: Mr. Dinesh Swaroop Kapoor

Mother's Name: Mrs. Swami Pyari Kapoor

Gender: Female

Languages Known: Hindi, English

Permanent Address: 260, Indrapuri Colony Main Road, Bhawarkuwa, AB Road, Indore (MP) -452001

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References

- Prof. G.S. Tyagi , Head Department of Physics and Computer Science, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh- Agra 282005.
- Dr. K.S. Daya, Associate Professor, Department of Physics and Computer Science, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh- Agra 282005

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