


Name	Dr. Yogendra Kumar Gautam		
Designation	Assitant Professor (Stage-II)		
Department	Physics		
Address (office)	Department of Physics, Ch. Charan Singh University (CCSU), Meerut, Uttar Pradesh-250004 (India)		
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Educational Qualification

Degree	Institution/University	Year	Division	Subjects
Ph.D.	Indian Institute of Technology (IIT) Roorkee, India	2013	Awarded	Thesis title “ Experimental Investigation of Hydrogen Effect on Selected Nanostructured Coatings ”
M.Tech.	Indian Institute of Technology (IIT) Delhi, India	2007	First	Solid State Materials (SSM) , Project title “ The Study of Dielectric Properties of Polymer Composite ”
M.Sc.	Chaudhary Charan Singh University(CCSU),Campus Meerut, U.P. India	2004	First	Physics (Electronics)
B.Sc.	Chaudhary Charan Singh University (CCSU), Meerut,U.P. , India	2002	Fisrt	Physics, Chemistry, Mathematics

Academics Experience (8 Years)

Designation	Institution/Organization	Duration
Assistant Professor	Chaudhary Charan Singh University (CCSU), Campus Meerut, U.P. (INDIA)	March 2015 - Present
Assistant Professor	Jaypee University of Engineering & Technology (JUET), Raghogarh, Guna, Madhya Pradesh (India)	July 2013 - Feb 2015
Research Associate (CSIR-RA)(Postdoc)	Indian Institute of Technology (IIT) Roorkee, India	Feb 2013 - June 2013

Research Interest: Nanostructured Materials/Thin Films	Experimental Skills
<ul style="list-style-type: none"> ❖ Hydrogen & Toxic gases Sensors ❖ Solid State Hydrogen Storage ❖ Supercapacitors ❖ Solar Cells ❖ Green Synthesis of Nanomaterials ❖ Photocatalytic & Antimicrobial Activity 	DC/RF Magnetron Sputtering, Pulse Laser Deposition, Spin Coating, Thermal Evaporation. Hydrothermal Method, Vacuum Technology, X-Ray Diffraction, Scanning Probe Microscopy (SPM), Scanning Electron Microscope (SEM) & EDAX, Electrical (I-V) Measurement, Hydrogen Storage, Elastic Recoil Detection Analysis (ERDA).
Teaching Assignments (PG Programme) (Ph.D. Programme)	Mathematical Physics, Statistical Physics, Atomic & Molecular Physics, Computational Methods & Programming, Nuclear Physics, Electronic Devices, Special Papers of Electronics, Physics of Nanomaterials, Condensed Matter Physics. Materials Science & Energy Devices. Research Methodology.

Research Supervision

Degree Programme	Awarded	Submitted	Working
Ph.D.			4
M. Phil.	13		

Research Projects Handled

Sr. No.	Title of Research Project	Name of Funding Agency	Grant (Lakhs)	Period	PI/Co-PI
1	Investigation of nanostructured metal oxide thin films for hydrogen gas sensing applications	UGC Start-up Grant, Government of India	6.00	2016-2018 (Completed)	PI
2	Development of toxic gas sensors using biosynthesized semiconducting metal oxide nanostructures	Council of Higher Education, Government of UP, India	3.40	2021-2024 (On going)	Co-PI

Administrative Responsibilities and Duties

- Currently working as Member of the UG (NEP-2020) Cell, CCS University Campus.
- Currently working as Member of the Research Development Cell, CCS University Campus for the implementation of “NEP-2020”.
- Currently working as Member of the National Institutional Ranking Framework (NIRF) committee for CCS University, Meerut.
- Currently working as Assistant Proctor, CCS University, Meerut.
- Worked as Assistant Controller in CCS University, Meerut central evaluations.
- Worked as Member of Flying Squad team in CCS University, Meerut examinations.
- Worked as Coordinator & Member of various committees time to time constituted by Sahityik Sanskritik Parishad, CCS University, Meerut.
- Worked as Observer & Supervisor in the entrance examinations of different Universities.
- Worked as Observer of B.Ed. state (U.P.) level entrance examinations.
- Worked as Member, admission committee for Department of Physics, CCSUuniversity, Meerut.
- Worked as Coordinator of Physics Association (A.Y.2016-17), Department of Physics, CCSUuniversity, Meerut.

Co-curricular and Professional Activities

- ✚ Worked as Member of organizing committee for “Online University Level GD Competition” organized by Paryavaran Sanrakshan Gatividhi- Environment Youth Forum (EYF -2021), Ch. Charan Singh University Meerut, U.P., India on January 19, 2021.
- ✚ Worked as Organizing Secretary in national webinar (e-Conference) on “Intellectual Property Rights: Rewards to Inventors” organized by Department of Physics, Ch. Charan Singh University Meerut UP, India, October 15, 2020.
- ✚ Delivered an invited lecture on “Awareness of Recent Trends in Materials Science & Technology” 28 September, 2020 organized by school of basic sciences and research, Dept. of Physics, Sharda University, Noida.
- ✚ Delivered an Invited talk on August 29, 2020 in 4 days National webinar on “Scientific Achievemens, Current Challenges, Problems and Scientific & Technical Terminology” from 26-29 August, 2020 organized by Commission for Scientific and Technical Terminology, Ministry of Education, Govt of India and Swami Premanand Mahavidyala, Mukerian, Punjab.
- ✚ Worked as Joint Secretary in organizing International Webinar (e-Conference) on “Prospective of Interdisciplinary Research in Science & Technology in the Present Scenario” organized by Department of Physics, Ch. Charan Singh University Meerut UP, India during, May 15-16, 2020.
- ✚ Chaired a session in “International Webinar on Air Quality, Climate Change and the Environment & Health Effects Referring to the Pandemic COVID-19 Lockdown” on May 02-03, 2020 held at Institutional Innovation Cell, H.N.B. Garhwal University, Srinagar, Uttarakhand, India.
- ✚ Prepared E-contents (Topic: 6, Pages/slides: 215) for M.Sc. and M.Phil programme, March- November, 2020.
- ✚ Worked as Member of organizing committee for Essay writing competition on National Science Day held at Department of Physics, Ch. Charan Singh University Meerut, U.P., India on February 28, 2020.

- ✚ Delivered an Invited Talk on “Semiconductor Devices” on January 29, 2020 at Ismail National Mahila (PG) College, Meerut, U.P. India.
- ✚ Delivered training sessions on DC/RF Magnetron Sputtering Technique and Scanning Electron Microscope (SEM)/EDAX in one week workshop on “Introduction, Synthesis, and Characterization of Nanomaterials” organized by Centre for International Cooperation, Ch. Charan Singh University and Central Connecticut State University, USA, December 16-21, 2019.
- ✚ Worked as member of Disciplinary Committee, Khadya Avam Satkar Samiti for “Gyanotsav 2076 Vikrami (Meerut)”, organized by Shiksha Sanskriti Utthan Nyas, New Delhi and Dept. of Education, CCS University Meerut, November 5-6, 2019.
- ✚ Chaired a session in 24th International Conference of International Academy of physical Sciences on Innovations in Physical Sciences held at Ch. Charan Singh University, Meerut during August 09-11, 2019.
- ✚ Worked as a member of review committee in the 24th International Conference of International Academy of physical Sciences on Innovations in Physical Sciences held at Ch. Charan Singh University, Meerut during August 09-11, 2019.
- ✚ Delivered an Invited Lecture on “Nanotechnology in Ancient India and Present Scenario” on Feb. 17, 2018 at J. V. Jain College Saharanpur (U.P.) India.
- ✚ Worked as secretary of organizing committee (Coordinator of Physics Association) for Inter-University Poster Competition for “Science Day Celebration” held at Department of Physics, Ch. Charan Singh University Meerut U.P., India on February 28, 2017.
- ✚ Developed courses for M.Phil programme in August 2016.
- ✚ Worked as Organizing secretary for 1st Alumni meet of Department of Physics, CCS University, Meerut under Golden Jubilee Year 2015-16 celebrations on 18 October, 2015.
- ✚ Delivered an Invited Lecture on Metal Hydrides Thin Films/Multilayers For Hydrogen Storage at Institute for energy and technolog (IFE), Norway during September 28-30, 2014.

Research Publications in Peer Reviewed Journals

1. Enhancement in the sensitivity and selectivity of Cu functionalized MoS₂ nanoworm thin films for nitrogen dioxide gas sensor, Shrestha Tyagi, Arvind Kumar, Ashwani Kumar*, **Yogendra K. Gautam**, Virendera Kumar, Yogesh Kumar and Beer Pal Singh, **Materials Research Bulletin** (Under review: 2021).
2. Room temperature Photoluminescence and spectroscopic ellipsometry of reactive co-sputtered Cu-doped ZnO thin films, Manohar Singh, Anit K. Ambedkar, Shrestha Tyagi, Virendera Kumar, Ashwani Kumar, **Yogendra K. Gautam**, Beer Pal Singh*. **Journal: Optik** (Under review: 2021).
3. Tailoring of magnetic phase: Co-doped SiC thin films grown by RF sputtering, M. Kumar*, A. Kumar, R. Kumar, A. K. Singh, **Yogendra K. Gautam**, Ramesh Chandra*, **Materials Chemistry and Physics** (Under review: 2021).
4. Detection of Nitrogen dioxide (NO₂) as Air Pollutant using Nanostructured Metal Oxide based Sensors for Plant ecosystem: A Review, Shrestha Tyagi, Manika Chaudhary, Anit K. Ambedkar, Kavita Sharma*, **Yogendra K. Gautam**, Beer Pal Singh* **Sensors and diagnostics** (Accepted: 2021).
5. Structural, optical and antimicrobial properties of pure and Ag-doped ZnO nanostructures, Sagar Vikal, **Yogendra K. Gautam***, Anit K. Ambedkar, Durvesh Gautam, Jyoti Singh, Dharmendra Pratap*, Ashwani Kumar, Sanjay Kumar and Beer Pal Singh*, **Journal of Semiconductors** (Accepted: 2021).
6. Metal oxide semiconductor nanostructures-based greenhouse gas sensors: progress and challenges, **Yogendra K. Gautam***, Kavita Sharma*, S. Tyagi A. Ambedkar, M. Chaudhary, Beer Pal Singh*, Royal Society Open Science, 8:201324(2021)1-42 **(Impact Factor: 2.646)**.
7. Sputter Grown Pd-Capped CuO Thin Films for a Highly Sensitive and Selective Hydrogen Gas Sensor, Prashant Yadav, Ashwani Kumar, Amit Sanger, **Yogendra K. Gautam***, Beer Pal Singh*, **Journal of electronic materials** 50(1)(2021)192-200 **(Impact Factor: 1.774)**.

8. Influence of SiC thin films thickness on the electrical properties of Pd/SiC thin films for hydrogen gas sensor, M. Kumar, A. Kumar, **Yogendra K. Gautam***, R. Chandra M. S. Goyat, B.S. Tewari, R. K.Tewari, **Vacuum** 182 (2020)109750(1-8) (**Impact Factor: 2.906**).
9. Sputter deposited crystalline V₂O₅, WO₃ and WO₃/V₂O₅ multi-layers for optical and electrochemical applications,Atul. Khanna*, Ravish. K. Jain, **Yogendra K. Gautam**, Beer Pal Singh, **Applied Surface Science** 536 (2021)147804 (**Impact Factor: 6.182**).
10. Experimental Investigation of Co and Fe-Doped CuO Nanostructured Electrode Material for Remarkable Electrochemical Performance, Manika Chaudhary, Ashwani Kumar, **Yogendra K. Gautam**, Anil K. Malik, **Beer Pal Singh***, **Ceramics International** 47(2) (2020)2094-2106 (**Impact Factor: 3.830**).
11. Structural, optical and thermoelectric properties of Al-doped ZnO thin films prepared by spray pyrolysis,Anit K. Ambedkar, Manohar Singh, Virendra Kumar, V. Kumar, Beer Pal. Singh, Ashwani Kumar, **Yogendra K. Gautam***,**Surfaces and Interfaces** 19(2020)100504 (1-7) (**Impact Factor: 3.724**).
12. Effect of Co and Mn doping on the morphological, optical and magnetic properties of CuO nanostructures, Beer Pal Singh*, Manika Chaudhary, Ashwani Kumar, Amit Kumar Singh, **Yogendra.K. Gautam**, Stuti Rani, RajanWalia, **Solid State Sciences** 106 (2020) (**Impact Factor: 2.434**).
13. Electrochemical sensing of hydrogen peroxide based on nano γ -Fe₂O₃ modified glassy carbon electrode, Beer Pal Singh*, Shrestha Tyagi, **Yogendra K. Gautam**, Anil. K. Malik, Carmen Vega, **Applied Innovative Research** 2(2020)162-166.
14. Study of optoelectronic and thermoelectric spectra of Tl(Nd/Gd)S₂, Annveer, R. Gautam, A. Kumar, Arvind Kumar, **Yogendra K. Gautam**, A. L. Saroj and R. P. Singh, **Journal of Materials Science: Materials in Electronics** (2020). doi.org/10.1007/s10854-020-04852-z (**Impact Factor: 2.220**).
15. Facile green synthesis and applications of silver nanoparticles: a state-of-the-art review,NaziaTarannum, Divya and **Yogendra K. Gautam**, **Journal of RSC Advances** 09 (2019)34926-34948 (**Impact Factor: 3.070**).
16. Hydrogen induced resistance and optical transmittance of pulsed laser deposited Pd/Mg thin films, **Yogendra K. Gautam***, Ashwani Kumar, Anit K. Ambedkar, Vipin Kumar, Beer Pal Singh, **Journal of Applied Innovative Research**01(2) (2019) 96-100.
17. Effect of sputtering process parameters on structural and optical properties of CdS thin films,Ashwani Kumar, Vipin Kumar, Ramesh Chandra and **Yogendra K. Gautam***,**Journal of Materials Research Express** 06(2019)1-9 (**Impact Factor: 1.929**).
18. A room temperature hydrogen sensor based on Pd-Mg alloy and multilayers prepared by magnetron sputtering, **Yogendra K. Gautam**, Amit sanger, Aswani Kumar, and Ramesh Chandra, **International Journal of Hydrogen Energy** 40(2015)15549-15555 (**Impact Factor: 4.939**).
19. Fast and reversible hydrogen sensing properties of Pd/Mg thin film modify hydrophobic porous silicon substrate, Amit sanger, Aswani Kumar, SamtaChuhan,**Yogendra K. Gautam** and Ramesh Chandra, **Journal of Sensors and Actuators B** 213 (2015) 252-260 (**Impact Factor: 7.10**).
20. Hydrogenation and dehydrogenation of Pd/Mg/Pd tri-layer prepared by magnetron sputtering; **Yogendra K. Gautam**, Mukesh Kumar and Ramesh Chandra, **Journal of Surface & Coatings Technology** 2013 (237) 450–455(**Impact Factor: 3.784**).
21. Studies on hydrogen sensing properties of nanostructured Pd and Pd/Mg thin films prepared by Pulsed laser deposition, Yogendra K. Gautam, Ravish Jain, Sunil K. Tanwar, R. D. Agrawal and Ramesh Chandra, **Journal of Sensors and Actuators B** 176 (2013) 453-459 (**Impact Factor: 7.10**).
22. A study on structural, optical and hydrophobic properties of sputter deposited HfO₂ films, Ravish K. Jain, Yogendra K. Gautam, Vikramaditya Dave Amit K. Chawla, R. Chandra. **Journal of Applied surface science**283(2013)332-338 (**Impact Factor: 6.182**).
23. Hydrogen absorption and optical properties of Pd/Mg thin films prepared by DC magnetron sputtering, Yogendra K. Gautam, Amit. K. Chawla, Saif A. Khan, R.D. Agrawal, R. Chandra, **International Journal of Hydrogen Energy**37(2012) 3772-3778 (**Impact Factor: 4.939**).

24. A comprehensive study of structural and magnetic properties of sputter deposited nickel–silica thin films, RajanWalia, J.C. Pivin, A.K. Chawla, R. Jayaganthan, **Yogendra. K. Gautam**, Ramesh Chandra, **Materials Science & Engineering B** 177 (13) (2012)1073-1079 (**Impact Factor: 4.706**).
25. Hydrogenation of Pd-capped Mg thin films prepared by DC magnetron sputtering, **Yogendra K. Gautam**, Amit.K. Chawla, Rajan. Walia, R.D. Agrawal, R.Chandra, **Journal of Applied Surface Science**257 (2011) 6291-6295 (**Impact Factor: 6.182**).
26. Influence of sputtering gas on morphological and optical properties of magnesium films, **Yogendra K. Gautam**, Amit K. Chawla, Vipin Chawla, R. D. Agrawal and R. Chandra, **Journal of Materials science and Technology**27(1) (2011) 51-58(**Impact Factor: 6.155**).

Books Chapters

- 1) Applications of green nanomaterials in coatings, **Yogendra K. Gautam***, Kavita Sharma, Shrestha Tyagi, Ashwani Kumar, Beer Pal Singh* book chapter to be published in the book titled “Green Nanomaterials for Industrial Applications” Published by Elsevier -2021.ISBN: 9780128236222. doi.org/10.1016/B978-0-12-823296-5.00014-9.
- 2) Sustainable nanomaterials for environmental remediation, Kavita Sharma, Shrestha Tyagi, Sagar Vikal, Arti Devi, **Yogendra K. Gautam*** and Beer Pal Singh* book chapter to be published in the book titled “Green and Sustainable Nanotechnology” by SPRINGER (Accepted in press) 2021.
- 3) Sustainable green nanomaterials for advanced treatment process for contaminated water and soil, Kavita Sharma, Shrestha Tyagi, Sagar Vikal, Arti Devi, **Yogendra K. Gautam***, Beer Pal Singh, book chapter to be published in the book titled “Green and Sustainable Nanotechnology” by SPRINGER (Accepted) 2021.
- 4) Green and Sustainable Nanotechnology for Clean Energy Production, Beer Pal Singh, Kavita Sharma, Shrestha Tyagi, Durvesh Gautam, Manika Chaudhary, Ashwani Kumar, Sagar Vikal and **Yogendra K. Gautam***, book chapter to be published in the book titled “Green and Sustainable Nanotechnology” by SPRINGER (Accepted)2021.
- 5) Transition Metal Dichalcogenides (TMDs) Nanocomposites-based Supercapacitors, Shrestha Tyagi, Kavita Sharma, Ashwani Kumar, **Yogendra K. Gautam**, Anil Kumar Malik, Beer Pal Singh* book chapter to be published in the book titled “Recent Trends in Energy Sciences and Technology” by Springer Nature.(Communicated)2021.

Publications in International Conference Proceedings

1. Effect of hydrogen on the structural and magnetic properties of Pd-capped Nb/Cotri-layers, **Yogendra K. Gautam***, Ravish Jain and Ramesh Chandra, International Journal of Researche in Biosciences,Agriculture &Technology 2014,1(2) 2347-517X, 389-397.
2. Effect of Working Pressure on Structural, Electrical and Optical Properties of CIGS Thin Film Deposited by PLD, Pradeep Kumar Mishra, **Yogendra K. Gautam**, J. N. Prasad, A. K. Choudhary, R.Chandra, Journal Advanced Material Research 2013, 678, 70-74.
3. Study on Structural, Optical and Wetttable Properties of CeO₂ Thin Films Deposited by Reactive DC Magnetron Sputtering, Ravish K. Jain, Gurjinder Kaur, Samta Chauhan, **Yogendra K. Gautam** and Rames Chandra, Optoelectronic Materials and Thin Films: OMTAT-2013, 1576 (1), 155-158.
4. Thickness dependent structural,optical and electrical properties of CuIn_{0.8}Ga_{0.2}Se₂ thin films deposited by PLD, Pradeep K. Mishra, **Yogendra K. Gautam**, Ashwani Kumar, Ravish K. Jain, Jagat N.Prasad, Ashwini K.Choudhary and Ramesh Chandra, Optoelectronic Materials and Thin Films: OMTAT-2013, 1576 (1), 33-37
5. Structural and thermal properties of CuO nanoparticale by magnetron sputtering, Monu Verma, V.K.Gupta, **Yogendra K. Gautam**, Ramesh Chandra, Optoelectronic Materials and Thin Films: OMTAT-2013, 1576 (1), 190-19.

Honours, Fellowship/Awards

1. Received full Financial Assistantship from **Institute for energy and technology(IFE), Norway** for invited lecture (September,2014).
2. Awarded **CSIR Research Associateship (RA)** from Council of Scientific & Industrial Research(CSIR), Government of India (June 2011-May 2013).
3. Awarded Senior Research Fellowship(SRF) from **MHRD, Government of India** in Ph.D. Programme(July2007-May 2011).
4. Received full Financial Assistantship from IIT Roorkee heritage fund, IIT Roorkee, India for presenting research work in “International Symposium on Metal-Hydrogen Systems” **Institute of Solid State Physics, RAS, Chernogolovka, and Moscow State University Moscow, Russia** (July,2010).
5. Received full Financial Assistantship from **University of Milano-Bicocca, Milan, Italy** for presenting research work in “Chemistry and Physics of materials for energetic,A European school in material science”(September,2009)
6. Qualified Graduate Aptitude Test in Engineering(GATE-2004&2005) in Physics.

Research Work Presented(oral)in International Seminar/Conferences/Workshops

S. No.	Conference/workshop	National/ International	Venue	Date/duration
1.	International Webinar on Air Quality, Climate Change and the Environment Effects Referring to the Pandemic COVID-19 Lockdown	International	Institutional Innovation Cell, H.N.B. Garhwal University UK	May 02-03, 2020
2.	International Conference on Advanced Materials (ICAM-2019)	International	Jamia Millia Islamia, Delhi	March 6-7, 2019
3.	International Conference on Advanced Materials, Energy and Environmental Sustainability' (ICAMEES-2018)	International	University of Petroleum and Energy Studies(UPES),Dehradun	Dec. 14, 2018
4.	International Conference on Advanced Materials, Energy and Environmental Sustainability(ICAMEES-2018)	International	University of Petroleum and Energy Studies(UPES),Dehradun	Dec. 15, 2018
5.	International conference on Optoelectronic Materials and Thin films for Advanced Technology (OMTAT- 2013)	International	Cochin University of Science and Technology, Kochi, India	January 3-5, 2013
6.	International Conference on Renewable Energy (ICRE-2011)	International	University of Rajasthan, Jaipur, India	January 17-21, 2011
7.	International Symposium on Metal-Hydrogen Systems (MH-2010)	International	Moscow State University, Moscow, Russia	July 19-23, 2010
8.	International school Chemistry and physics of materials for energetic, A European school in material science (PCAM)-2009	International	University of Milano-Bicocca, Italy	September, 19,2009
9.	International Symposium on Hydrogen in Matter (ISOHIM-2009)	International	IIT Chennai, India	December 13-16, 2009
10.	International Workshop on nanotechnology and Advanced Functional Materials (NTAFM-2009)	International	National Chemical Laboratory (NCL) Pune, India	July, 9-11, 2009

Potential Reviewer of Various Journals

1. Ceramic International.
2. International Journal of Hydrogen Energy
3. Nano Express
4. Solid State Science
5. Nanotechnology
6. Polymers
7. Sustainability
8. Indian Journal of Engineering and Materials Sciences
9. Applied Innovative Research

Orientation/Refresher/Short term-Course/Workshop/Summer School attended

S. No.	Theme	Venue	Duration/Time	National/ International
1.	Online Refresher course in Physics	UGC-Human Resource Development Centre University of Allahabad, Prayagraj	November 21-04 December 2020	National
2.	Seven days national workshop on "Research Methodology"	NAS college Meerut, U. P. and IGNOU Regional Centre, Noida	June 09-15, 2020	National
3.	One week workshop on Introduction, Synthesis, and Characterization of Nanomaterials	Centre for International Cooperation, Ch. Charan Singh University, Meerut	December 16-21, 2019	International
4.	06 th 3-Week Refresher Course in Basic Science (Interdisciplinary)	UGC-HRDC, Jamia Millia Islamia, New Delhi	3-Week	Natioanl
5.	Refresher Course in Experimental Physics	Rajiv Gandhi University, Itanagar, Arunachal Pradesh	3-Week	Natioanl
6.	Orientation Programme	CPDHE, University of Delhi	4-Week	Natioanl
7.	Nurturance Programme for Talent Search Awardees	Institute Indian of Technology(IIT)Roorkee, India	December 12-16, 2011	National
8.	International Summer School on Materials for the Hydrogen Society (MH-2010)	Institute of Solid State Physics, RAS, Chernogolovka, Moscow, Russia	July 14 -18, 2010	International
9.	Chemistry and physics of materials for energetic, A European school in material science(PCAM-2009)	University of Milano Bicocca, Milan, Italy	September 14-19, 2009	International
10.	Users workshop held at Inter University Accelerator Center (IUAC), Delhi	Inter University Accelerator Center (IUAC), Delhi	July 6-7, 2008	National
11.	A national workshop on effective teaching and class room management	Indian Institute of Technology(IIT) Roorkee, India	January 27-28, 2008	National

Foreign Visit

- ❖ Institute for energy and technology (IFE), **Norway** (September, 2014).
- ❖ Institute of Solid State Physics, Russian Academy of Sciences (RAS), Chernogolovka, Moscow, Russia(July, 2010) and Moscow State University, Moscow, **Russia** (July, 2010).
- ❖ University of Milano-Bicocca, Milan, **Italy**(September, 2009).