


Title	Dr.	Name	Nishchhal Yadav	Photograph 
Designation	Assistant Professor			
Address	School of Studies in Physics, Vikram University, Ujjain 456 010			
Phone- Office	0734-2512022			
Residence	0734-2512031			
E-Mail	somyadav@gmail.com			

Educational Qualifications

Degree	Institution	Year
Ph.D.	Vikram University, Ujjain	2007
PG	Vikram University, Ujjain	2004
UG	Vikram University, Ujjain	2002
Other		

Area of Interest/ Specialization

Nonlinear Optics, Semiconductor Plasma, Electrodynamics, Material Science

Subjects Taught

Quantum Mechanics, Electronics, Solid state Physics

Publication Profile

Research Papers:

(A). Journal Papers:

1. "Diffusion induced modulational interaction in semiconductor plasma"
S. Ghosh and **Nishchhal Yadav**, J. Pure & Appl. Ultrasonics, **28** No 2-4, 169-177 (2006).
2. "Diffusion induced parametric dispersion and amplification in doped semiconductor plasmas"
N. Yadav and S. Ghosh, *Pramana J. of Phys.*, **68**, 123-128 (2007).
3. "Amplitude modulation and demodulation in strain dependent diffusive semiconductors"
S. Ghosh and **Nishchhal Yadav**, *Acta Phy. Pol.A* **112**, 29-40 (2007).
4. "Stimulated Brillouin scattering in magnetized diffusive semiconductor plasmas"
S. Ghosh and **Nishchhal Yadav**, *Euro. Phys. J. B.*, **59**, 173-178 (2007).
5. "Stimulated Brillouin scattering in diffusive semiconductor plasmas"
S. Ghosh and **Nishchhal Yadav**, *A.J.S.E.* **33**, 361-71 (2008)
6. "Instabilities of longitudinal electro-kinetic waves in ion-implanted semiconductor plasmas"

- Nishchhal Yadav**, S. Ghosh and Preeti Thakur, *Phy. Stat. Soli. (c)* **5**, no.4,901-906 (2008)
7. "Parametric interactions in ion-implanted piezoelectric semiconductor plasmas"
Nishchhal Yadav, S. Ghosh, Preeti Thakur, M. Jamil and M. Salimullah, *A.J.S.E.* **35**, 231-240 (2010).
8. "Parametric interactions in magnetized diffusive semiconductor plasmas: Effect of carrier heating"
Nilesh Nimje, **N. Yadav**, Swati Dubey and S. Ghosh, *J. of International Academy of Physical Science* **15**, 223-27 (2011).
9. "Effects of material parameter on interaction length to occur optical phase conjugation via stimulated Brillouin scattering in semiconductors"
Nilesh Nimje, **Nishchhal Yadav** and S. Ghosh, *Physics Lett. A* **376**, 850-853 (2012).
10. "Transient Brillouin Gain in direct band gap semiconductor"
Kirti Sontakke, **Nishchhal Yadav** and S. Ghosh, *J. Physics, conference series* **365**, 012043 (2012).
11. "Threshold and gain characteristics of stimulated Brillouin scattering in n-InSb crystal"
P.S. Malviya, Nilesh Nimje and **Nishchhal Yadav**, *Int. Jou. Sci. Res. Pub.* **3**, issue 1, 210-15 (2013).
12. "Modified cousto-electric interactions in colloids laden semiconductor quantum plasmas"
Artee Sharma, **Nishchhal Yadav** and S. Ghosh, *Int. Jou. Sci. Res. Pub.* **3**, issue 1, 47-53 (2013)
13. "Dispersion of Longitudnal electro-kinetic waves in ion-implanted quantum semiconductor plasmas"
S. Choudhary , **Nishchhal Yadav** and S. Ghosh, *Res. J. Physical Sciences*, **1**, **11-16** (2013)
- 14 "Electron-phonon pairing mechanism for superconductivity in K_3C_{60} fullerenes"
Daluram Yadav, **Nishchhal Yadav** and S. Ghosh, *Journal of materials Physics and Chemistry*, **1**, issue 1, 9-18 (2013).
15. "Isotope effect in alkali metal intercalated fullerenes: Rb_3C_{60} "
Daluram Yadav, **Nishchhal Yadav** and S. Ghosh, *Int. Jou. of Che. & Physical Sci.* (communicated) (2013)
16. "Quantum modifications in amplification characteristics of acoustic wave in colloids laden semiconductor plasmas"
A. Sharma, N.Nimje, **N.Yadav** and S. Ghosh, *Physica Scripta* (2013) (Communicated)
17. "Modified gain characteristics of longitudinal electro-kinetic waves in colloid laden quantum

semiconductor plasmas”

S. Choudhary, **N.Yadav** and S. Ghosh, (2013) (Communicated)

(B). Conference Papers:

1. Coherent Brillouin scattering in direct gap semiconductors: Effects of temperature and band structure.

Kirti Sontakke, **N. Yadav** and S. Ghosh, published in proceeding, p. no. 248-52 (*Excel India Publishers, New Delhi, INDIA*) (2011)

2. Brillouin gain characteristics in diffusive semiconductors in presence of hot carriers.

N. Nimje, **Nishchhal Yadav**, Swati Dubey and S. Ghosh, published in proceeding, p. no. 219-24 (*Excel India Publishers, New Delhi, INDIA*) (2011)

3. Quantum effect on phase conjugation characteristics via stimulated Brillouin scattering in semiconductor plasma.

Ravi Vanshpal, Swati Dubey, **Nishchhal Yadav** and S. Ghosh, published in proceeding, p. no. 243-47 (*Excel India Publishers, New Delhi, INDIA*) (2011)

4. Parametric instabilities in ion-implanted piezoelectric semiconductor plasmas

S. Ghosh, **Nishchhal Yadav**, Nilesh Nimje and Prabhat Dubey, published in proceeding, p. no. 262-66 (*Excel India Publishers, New Delhi, INDIA*) (2011)

5. Superconducting state parameters of Rb_3C_{60} fullerenes: Role of Coulomb pseudo potential

Daluram Yadav, **Nishchhal Yadav** and S. Ghosh, published in proceeding, p. no. 205-11 (*Excel India Publishers, New Delhi, INDIA*) (2011)

6. Optical phase conjugation by Stimulated Brillouin Scattering in semiconductors: Effect of Quantum Correction

Ravi Vanshpal, **Nishchhal Yadav**, Swati Dubey and S. Ghosh, *Asian Journal of Experimental Sciences (AJES)*, **25** (special edition) p. no. 57 (2011).

7. Modifications in amplitude modulation process in diffusive semiconductors due to hot carriers

N. Nimje, **Nishchhal Yadav** and S. Ghosh, *Asian Journal of Experimental Sciences (AJES)*, **25** (special edition) p. no. 76 (2011).

8. Transient Brillouin gain in direct gap semiconductors

Kirti Sontakke, **Nishchhal Yadav** and S. Ghosh, *J. Phys. Conf. Ser.* 365, 012043 (2012)

Books Published:**1. Emerging Interfaces of Physics & Technology**

Edited by **Nishchhal Yadav**, S. Dubey & S.K. Ghosh

ISBN No.: 978-93-81361-31-3

Excel India Publishers, New Delhi, 2011

Research Guidance

Supervision of awarded Doctoral thesis: **Nil**

Supervision of Doctoral thesis, Under progress: **05**

S. No.	Name	Topic
1	Artee Sharma	Quantum modification in propagation characteristics of surface-acoustic mode in colloids laden semiconductor plasmas
2	Sandhya Choudhary	Modification due to quantum effects in electro-kinetic mode in ion implanted semiconductor plasma
3	Prabhat Sharma	Characterization of the plasma sheath transition layer at material boundaries
4	Anjali Agrawal	Acoustoelectric wave spectra in quantum semiconductor: Effects of strain dependent dielectric constant
5	Prem Singh Malviya	Nonlinear interactions in ion implanted semiconductor plasmas having strain dependent dielectric constant

Supervision of M.Phil. dissertation: **10**

S. No.	Year	Name	Topic
1	2008-09	Mrs. Anjali Agrawal	Parametric interactions in longitudinal magnetised semiconductor plasmas [A review work]
2	2008-09	Abhishek Pachurekar	Parametric interaction in semiconductor plasma
3	2009-10	Sunil Sharma	A brief review of high energy detectors
4	2009-10	Neha	Parametric interaction in two valley piezoelectric

		Vaishampayan	semiconductor plasma
5	2009-10	Ku. Shweta Logad	Synthesis of Lithium Niobate nanoparticles by high energy ball milling and its characterization
6	2009-10	Sunil Kumawat	Investigation of multi ferroic properties of BaMnO ₃ and GdMnO ₃ ceramics
7	2011-12	Biram lal Lovenshi	Study of Atmospheric Cherenkov Telescope
8	2011-12	Rachna Sharma	Synthesis and Characterization of Nd-doped Yttrium Aluminum Garnet (Nd:YAG)
9	2011-12	Yougesh Sharma	Measurement of night sky and atmospheric Cherenkov light
10	2011-12	Sachin Choudhary	Growth of one dimensional II-VI semiconductor nanostructure and its characterization

Conferences Organized

1. **National Seminar on Emerging Interfaces of Physics and Technology 2013**

Conferences / Seminars etc. Attended

Conferences Attended (International):

1. "Instabilities of longitudinal electro-kinetic waves in ion implanted semiconductor plasmas"
S. Ghosh, Preeti Thakur and **Nishchhal Yadav**, *9th International workshop on plasma based ion implantation and deposition*, held at Leibniz-Institut fur Oberflächenmodifizierung, Leipzig, Germany, on 2-6 September (2007).
2. "Parametric interactions in diffusion induced doped semiconductor plasmas"
Nishchhal Yadav and S Ghosh, Selected for *IOP Plasma Physics Group 37th Annual Meeting 2008*, held at Institute on of Physics, London, on 1-4 April (2008).
3. Actively participated in *International Conference on Wetland systems Technology in Water pollution Control*, held at Vikram University, Ujjain-Indore, India, on 2-7 November (2008).
4. Participated in International conference on Yoga held at Ujjain, India on 29-31 October 2010.
5. Parametric Interaction in Magnetised Diffusive Semiconductor Plasmas: Effects of Carrier Heating
Nilesh Nimje, **N. Yadav**, Swati Dubey and S. Ghosh, 12th International Conference of International academy of Physical Sciences, India (CONIAPS XII) on EMERGING INTERFACES of PHYSICAL SCIENCES, held at University of Rajasthan, Jaipur-302004, India, December 22-24, 2010.
6. Threshold and Gain Characteristics of Stimulated Brillouin Scattering in n-InSb Crystal
P.S. Malviya, Nilesh Nimje and **Nishchhal Yadav**, 12th International Conference of International academy of Physical Sciences, India (CONIAPS XII) on Emerging Interfaces of Physical Sciences, held at University of Rajasthan, Jaipur-302004, India, December 22-24, 2010.

7 “Parametric Instability in Ion-implanted Piezoelectric Semiconductor Plasmas”

S. Ghosh, **Nishchhal Yadav** and Nilesh Nimje. Selected for International Conference on Surface Modification of Materials by Ion Beams (SMIIB), held at Harbin, China, on 13-17 September (2011)

8. Study of Stimulated Brillouin Scattering via Density of State Mass in Direct Band Gap Semiconductors

Kirti Sontakke, **Nishchhal Yadav** and S. Ghosh, 14th International Conference of International academy of Physical Sciences, India (CONIAPS XIV) on PHYSICAL SCIENCES INTERFACE WITH HUMANITY, held at SVNIT, Surat, Gujarat, India, on 22-24 December 2011.

9. Convective instability of circularly polarized electro-kinetic waves in magnetized ion-implanted semiconductor plasmas.

S. Ghosh, Preeti Thakur and **Nishchhal Yadav**, International conference on Recent Trends in Physics (ICRTP-2012), held at School of Physics, DAVV, Indore, on 4-5 February 2012.

10. Transient Brillouin Gain in direct band gap semiconductor

Kirti Sontakke, **Nishchhal Yadav** and S. Ghosh, International conference on Recent Trends in Physics (ICRTP-2012), held at School of Physics, DAVV, Indore, on 4-5 February 2012.

Conference/Symposium Attended (National):

1. “Diffusion induced modulational interaction in semiconductor plasma”

S. Ghosh and **Nishchhal Yadav**, *14th National symposium on Ultrasonic (NSU-XIV)*, held at National Physical Laboratory, New Delhi, on 16-18 February (2006).

2. “Diffusion induced parametric interactions in doped semiconductor plasmas”

Nishchhal Yadav and S. Ghosh, *15th National symposium on Ultrasonic (NSU-XV)*, held at Physics Department, Allahabad, on 1-6 November (2006).

3. “Stimulated Brillouin scattering in magnetized diffusive semiconductor plasmas”

Nishchhal Yadav, *22nd M.P. Young Scientist Congress*, held at SATI, Collage, Vidisha, M.P., on 28-1 March (2007)

4. “*51st DAE Solid State Physics Symposium*”, at Dept. of Physics and Electronics, Barkatullah University, Bhopal, 26-30 Dec (2006)

5. “Amplitude modulation and demodulation in strain dependent diffusive semiconductor plasmas”

S. Ghosh and **Nishchhal Yadav**, *22nd National Symposium on Plasma Science & Technology*, held at IPR, Bhat, Gandhinagar, Gujarat, on 6-10 December (2007).

6. “Parametric amplification in collision dominated magnetized diffusive semiconductor Plasmas”.

Nishchhal Yadav, Swati Dubey, S. Ghosh and Nilesh Nimje, National Symposium on “Advances in Lasers and Spectroscopy-2009”, held at Shri Hari Singh Gaur University, Sagar, on February 27-28, 2009

7. “Parametric interactions in Ion-implanted piezoelectric semiconductor plasmas”

Nishchhal Yadav, “24th M.P. Young Scientist Congress”, held at M.P.C.S.T. Bhopal on 28 February to 1 March 2009.

8. “Influence of Quantum effects on parametric interaction in piezoelectric semiconductors.”

N. Yadav, Swati Dubey, R. Vanshpal and S. Ghosh, National laser symposium (NLS -19) held at RRCAT, Indore on 1-4 December 2010.

9. “Brillouin Gain Characteristics in Diffusive semiconductors in presence of Hot carriers”

Nilesh Nimje, **Nishchhal Yadav**, Swati Dubey and S. Ghosh, National Conference on “Emerging Interfaces of Physics and Technology” (EIPT-2011) held at School of Studies in Physics, Vikram University, Ujjain (M.P.)-456010, March, 28-30, 2011.

10. “Parametric Instability in Ion-implanted Piezoelectric Semiconductor plasmas”

S. Ghosh, **Nishchhal Yadav**, Nilesh Nimje and Prabhat Dubey, National Conference on “Emerging Interfaces of Physics and Technology” (EIPT-2011) held at School of Studies in Physics, Vikram University, Ujjain (M.P.)-456010, March, 28-30, 2011.

11. Superconducting state parameters of Rb_3C_{60} fullerenes: Role of Coulomb pseudo potential
Daluram Yadav, **Nishchhal Yadav** and S. Ghosh, National Conference on “Emerging Interfaces of Physics and Technology” (EIPT-2011) held at School of Studies in Physics, Vikram University, Ujjain (M.P.)-456010, March, 28-30, 2011.

12. Coherent Brillouin scattering in direct gap semiconductors: Effects of temperature and band structure.

Kirti Sontakke, **N. Yadav** and S. Ghosh, National Conference on “Emerging Interfaces of Physics and Technology” (EIPT-2011) held at School of Studies in Physics, Vikram University, Ujjain (M.P.)-456010, March, 28-30, 2011.

13. Quantum effect on phase conjugation characteristics via stimulated Brillouin scattering in semiconductor plasma.

Ravi Vanshpal, Swati Dubey, **N. Yadav** and S. Ghosh, National Conference on “Emerging Interfaces of Physics and Technology” (EIPT-2011) held at School of Studies in Physics, Vikram University, Ujjain (M.P.)-456010, March, 28-30, 2011.

14 National conference on “The Role of Human Ethics in Technical Education: Regarding Overall development of Society” held at Govt. Engg. College, Ujjain, M.P., on 08-09 October 2011.

15. National conference on “Condensed Matter and Material Physics” held at Govt. M.L.B. Girls P.G. College, Bhopal, M.P., on 13-14 October 2011.

16. National conference on “Changing Educational Environment and M.P. University Act 1973” held at Vikram University, Ujjain (M.P.)-456010, February , 18-19, 2012.

Workshops/Seminar Attended (National):

1. DST workshop on “*Fundamental and Applications of plasma*”, held at SATI Collage, Vidisha, M.P. on 19-24 February 2007.

2. MPCST workshop on “*Applications of modern instruments*”, held at Govt. Kalidas Girls College, Ujjain, M.P. on 19-20 Feb 2008.

3. State level workshop on “*Developmental Initiatives and Role of Community Education*” held at Dept. of Continuity Education, Vikram University, Ujjain, on 29 March 2008.

4. Presented paper in National Seminar on “*Madhya Pradesh mein Jain Puratatva*” held at Kalidas Academy, hosted by History dept. Vikram University, Ujjain on 17-18 January 2009.

Paper presented “Jamner (Shajapur) mein Jain Puratatva”

Dr. Nishchhal Yadav, Dr. Sushil Manderia and Dr. Raman Singh Solanki

5. MPCST workshop on “*Skill Development in Madhya Pradesh*” held at S.S. in Economics, Vikram University, Ujjain, September 2009.

6. National workshop on “General Poor Classes-Welfare and Empowerment” by State Welfare Commission held at Vikram University, Ujjain, on 22-23 December 2009.

7. National Workshop on “Past, Present and Future of Higher Education in India (with special reference to Madhya Pradesh)” held at Vikram University on 15-16 January 2010.

8. National Workshop on “Solid State Ionics” held at M.S. University, Vadodera, on 20-22 March 2010.

9. “All India Laboratory Workshop in Physics”, held at ISLE, IPS Academy, Indore, on 14-18 December 2010.

10. National Work shop on “Saksham-IT Champion Training Program” by NME-ICT (HRD) & Microsoft. Organized by ICS, Vikram University, Ujjain on 16-25 January 2012.

11. National Workshop on “Accelerator based Interdisciplinary Research in Basic Sciences” held at Dept. of Pure & Appl. Phys., Guru Ghasidas University, Bilaspur on 28-29 March 2012.

12. National Workshop on “Transit of Venus, Training program for Master Resource Person (from Central Zone) organized by NCSTC, DST, GOI, Vigyan Prasar, New Delhi, held at MPCST, Bhopal on 14-15 March 2012.

13. National Seminar on “Multi dimensions of Ambedkarism and nation building“ organized by Dr. Ambedkar Peeth, Vikram University, Ujjain on 27-28 Feb. 2013

14. National Seminar on “Nanomaterials: Synthesis and Application (NSNSA)” organized by Dept. of Physics, Govt. Auto. P.G. College Chindwara (M.P.) on 4-6 March 2013

Research Projects

Projects Completed

1. **"Nonlinear interactions in Ion-Implanted semiconductor plasmas"**
Co-Investigator in Major Research project (4, 77,000/- Rs.) by MPCST, Bhopal.
Project duration (1/4/2010-31/3/2013)

Awards and Distinctions

1. NIL

Association with Professional Bodies

Members of Different Academic International/National Association:

- ⊗ **Life member** of **"Indian Physics Association (IPA)"** Mumbai.
- ⊗ **Life member** of **"Indian Association of Physics Teacher (IAPT)"** Kanpur.
- ⊗ **Life member** of **"Acoustical Society of India"** Visakhapatnam.
- ⊗ **Annual Member** of **"The Indian Science Congress Association (ISCA)"** Kolkata.

Members of Different International/National Association:

- **Active Member of Teachers Union, Vikram University, Ujjain (since 2007)**
- **Vice-President, Physics Club, SOS in Physics, Ujjain (since 2011)**
- **Joint Secretary of Teachers Union, Vikram University, Ujjain (2012-13)**
- **Active Member of Lions Club International "Shipra" (since 2012)**
- **Joint Secretary of State Level Chess Association (SLCA) (since 2012)**
- **Board Member of Teachers Union, Vikram University, Ujjain (2013-14)**
- **Member Board of Directors of Lions Club International "Shipra" (2013-14)**
- **Member of All India Sports Board, AIU, New Delhi (2013-14)**

ACADEMIC/ADMINISTRATIVE ACTIVITIES:

ACADEMIC/ADMINISTRATIVE ACTIVITIES	Duration
Representative Member of "Teacher's Union" Vikram University, Ujjain	Since 2007
Member of "Anti-raging committee" School of Studies in Physics, Vikram University, Ujjain	Since 2007
Appointed as "Invigilator" for University Exam	Since 2007
Member of "Flying Squad" main exam, Vikram	

University, Ujjain	2007-08
Member of “ Organizing Committee ” , 17 th Convocation Ceremony	2008
Appointed as “ External Examiner ” for different Collages / Universities.	Since 2008
Member of “ Flying Squad ” semester exam, Vikram University, Ujjain	2008-09,09-10, 10-11
Appointed as “ Co-Director ” Of Physical Education by Vice Chancellor, Vikram University, Ujjain	2008-11
Sports and Games Department by Vice Chancellor, Vikram University, Ujjain	since2008
Appointed as “ Paper Setter ” for different Universities.	Since 2008
Appointed as “ Permanent Invigilator ” main exam	2008-09
Appointed as “ Investigation Officer ” for different purpose of Vikram University	2009, 10
Co-convener of “ Flying Squad ” semester exam (LLB), Vikram University, Ujjain	2008-09
Member of “ Discipline Committee ” for Youth festival, Vikram University by Vice Chancellor	2008-09
Member of “ Transportation & Accommodation Committee ” for UGC inspection, Vikram University by Vice Chancellor	2008
Member of Personality Development Workshop , Vikram University	2009-10
Appointed as “ Control Room Incharge ” for Student Union Election of Vikram University by Vice Chancellor	2009-10
Member of “ Document Verification Committee ” for Student Union Election of Vikram University by Vice Chancellor	2009-10
Appointed as Incharge of “ Sports Committee ” for Student Union Election of Vikram University by Vice Chancellor	Since 2009
Member of “ Lodging Committee ” for National Workshop on Higher Education of Vikram University	2009

Appointed as “Presiding Officer” for Lok-Sabha Election for Panchayat Election for Student Election (Department level)	March 2009 January 2010 2008-09,11-12
Incharge Director Physical Education, Vikram University	06-08Nov 2009, 29Nov-4 Dec 2010
Member of “Transportation Committee” for 18 th Convocation Ceremony of Vikram University by Vice Chancellor	2009-10
Member of “Lodging, Boarding & Transportation Committee” for National Workshop on Higher Education of Vikram University	2010
Appointed as Incharge of “Athletic ground development team” of Vikram University by Vice Chancellor	2009
Member of “Invitation, Publication & Distribution Committee” for 19 th Convocation Ceremony of Vikram University by Vice Chancellor	2010
Member of “M. Phil. Committee” of School of Studies in Physics, Vikram University, Ujjain.	Since 2009
Member of “Udhyameta Vikas Committee” for Workshop on Personality Development of Students of Vikram University, Ujjain.	2009-10
Member of “Departmental Purchasing Committee” of School of Studies in Physics, Vikram University, Ujjain.	Since 2010
Incharge of “Prof. S. Guha memorial Computer networking lab” , S.S. in Physics, Vikram University, Ujjain	Since 2010
Appointed as Member of “Discipline Committee” Student Union Election of Vikram University, Ujjain	2010-11
Appointed as a Member of “Verification Committee” for different purpose by Vice Chancellor	2010
Convener and Organizer of Swimming Competition, Division level Badminton Competition, Division level	2010-11, 11-12, 13-14 2010-11 13-14

Weight-Lifting Competition, Division level	2010-11, 13-14
Body-Building Competition, Division level	2010-11, 13-14
Inter College Athletic Championship, Division level	2010-11
Cross Country Championship, Division level	2010-11
Cricket tournament, Division Level	2013-14
Appointed as “Joint Organizing Secretary” for South-West Zone Kabaddi Women Tournament, Vikram University, Ujjain	2010-11
for All India Inter Zone Kabaddi Women Tournament, Vikram University, Ujjain	2010-11
Appointed as “Organizing Secretary” for National Conference on “Emerging Interfaces of Physics and Technology EIPT” by School of Studies in Physics, Vikram University, Ujjain	28-30 March 2011
for West Zone Inter University Chess (M & W) tournament 2012, Organized by Vikram University.	17-21 Nov 2012
Appointed as “Sports Event Incharge” for Utkarsh organized by Student Union	9-11 May 2011, 3-5 Nov 2011, 17- 18 April 2012
Appointed as “Chief Editor” for proceeding publication of EIPT-2011 by Chairman EIPT	2011
Member of “Admission Committee” S.S. in Physics, Vikram University	2011-12, 12-13
Member of “Music Committee” Youth Festival, Vikram University	2011, 2012, 2013
Appointed as “Director” Of Physical Education by Vice Chancellor, Vikram University, Ujjain	Since 2011
Member of “Sports Committee” Vikram University	2009-11
Member of “Discipline Committee” for Counseling in School of Engg. & Tech., Vikram University	2011
Member of “Division level T.T. Competition Women” by Higher Education Dept, M.P. Government	2011-12
Member of “Division level T.T. Competition	

Men by Higher Education Dept, M.P. Government	2011-12	
Member of "Division level Volleyball Competition Men" by Higher Education Dept, M.P. Government	2011-12	
Jury of Apple in "Division level Volleyball Competition Men" by Higher Education Dept, M.P. Government	2011-12	
Member of "Organizing Committee" of Republic day Celebration by Vice Chancellor	2012	
Convener of " Youth Day Program" organized by Vikram University, appointed by Vice Chancellor	2012	
Appointed as "Observer" by RGPV (Rajiv Gandhi Prodyogic Vishwavidyalaya), Bhopal for "Prathibha Parv" by School Education department, Bhopal for D.Ed. Exam of M.P. Bhoj Open University, Bhopal	Exam June 2011, Exam Jan-2013 2012 2013	
Appointed as "Master Resource Person" for Transit of Venus, by MPCST, Bhopal	2012	
Appointed as "Member of Examination Committee" of Physical Education by Vice Chancellor	2012-13	
Member of "Transportation Committee" for 20 th Convocation Ceremony of Vikram University by Vice Chancellor	2012	
Member of "Invitation distribution Committee" for 20 th Convocation Ceremony of Vikram University by Vice Chancellor	2012	
Appointed as "Secretary" "Sports Committee" Vikram University "Board of Sports" Vikram University "Alumni Committee" of SOS in Physics by H.O.D "Department Academic Achievement Committee" of SOS in Physics by H.O.D	since 2011 since 2011 since 2012 since 2012	
Appointed as "Member of Registration Committee" of Common Entrance Exam	2012	

Counseling by Vice Chancellor	
Appointed as “Campus Invigilator”	
University yearly exam	2009, 10
For Entrance Exam (Ph.D. and M. Phil) by Vice Chancellor	2012
For semester exam	Oct-Nov 2013
Member of “ Advisory Committee” National seminar on Nonmaterial: Synthesis and application, NSNSA-2313, Chindwara (M.P.)	04-06 March 2013
Head of “Invitation committee” for Vivekananda Bhavan inauguration, by Vice-Chancellor	Feb 2013
Member of “ Discipline Committee” of Dr. Ambedkar Peeth , by Vice Chancellor	27-28 Feb 2013
Appointed as Incharge officer for RTI by Registrar (Lok Suchna Adhikari)	2013
Member of “All India Sports Board” by AIU	2013-14
Appointed as “Assistant Superintendent”	
Vypam Exam	2013
Vypam Exam	2013
Semester Exam	Dec- Jan 2013
Appointed as “Master Trainer” in Vidhan Sabha election	2013

Other Activities

Research Interests: Nano Science, Ion Implantation Techniques

Survey Articles

Popular Article

Delivered Lectures

1. **Invited Talk** in NSNSA-2013, Govt. Auto. P.G. College, Chhindwara (M.P.) on 4-6 March 2013

Forthcoming Research : Plasma Sheath study, Nano Science, Ion Implantation Techniques