### **Profile Page**



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#### **Research Interests:**

1. Theoretical Nuclear Physics

2. Study of Superdeformed nuclei

#### **Other Profile Links:**

#### Google Scholar Link:

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Vidwan-ID: 98087 Click Here

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### **Journal Publications:**

Year	Journal	Publication				
2020	International Journal of Modern	Monica Karday, Anshul Dadwal and H M Mittal, "Examination of				
	Physics E Vol. 29, No.9 (2020)	phenomenological formulae in superdeformed bands of A~190,150 mass				
	2050081 (19 pages)	regions"				
2020	Physica Scripta, Vol. 95, (2020)	Monica Karday, Anshul Dadwal and H M Mittal, "Systematic study of				
	105303 (12 pages)	superdeformed rotational bands in Hg isotopes"				
2019	Eur. Phys. J. A (2019) 55: 12	Anshul Dadwal and H. M. Mittal, "Spins and moment of inertia of				
		superdeformed bands in the Pb isotopes"				
2019	Eur. Phys. J. Plus (2019)134:138	Monica Karday and H. M. Mittal, "Test for the constancy of Grodzins				
	(8 pages)	product rule in the higher spin states of ground band"				

2013	(6pp)	rich 112Ru nucleus and molybdenum isotopes"
2015	1550054 (6 pages) Physica Scripta 90 (2015) 085304	Parveen Kumari, H.M Mittal, "Study of multiphonon ?? –band in neutron
	Physics E Vol.24, No.7 (2015)	yrast and excited SD bands of even-even nuclei in A= 150 mass region"
2015	International Journal of Modern	Neha Sharma and H M Mittal, "Systematics of band moment of inertia of
	305-309 (5 pages)	(E(21)*B(E2)) framework of Asymmetric Rotor Model"
2015	Cent. Eur. J. Phys. Vol.13 (2015)	Parveen Kumari, H.M Mittal, "Study of Grodzins product in the
	1650038 (14 pages)	
	Physics E Vol.25, No.7 (2016)	superdeformed bands in A=80 mass region"
2016	International Journal of Modern	Anshul Dadwal, Neha Sharma and H M Mittal, "Level spins of
	(2016) 094104 (5 pages)	*B(E2) through Asymmetric Rotor Model"
2016	Chinese Physics C Vol. 40, No. 9	Parveen Kumari and H.M Mittal, "Systematic study of the product (R(2?)
	(2016) 114103 (7 pages)	superdeformed bands in 86Zr"
2016	Chinese Physics C Vol. 40, No. 11	Anshul Dadwal and H.M Mittal, "Band head spin assignment of
2017	Lui. 1 11y5. 3. 11 (2017) 33. 2	bands in Tl isotopes"
2017	Eur. Phys. J. A (2017) 53: 2	Anshul Dadwal and H.M. Mittal, "Spins of superdeformed rotational
	(2017) 03+102 (0 pages)	model"
2017	(2017) 054102 (6 pages)	and ROTE_B(E2) " on NpNn in the framework of shape fluctuation
2017	Chinese Physics C Vol.41, No.5	Amit Bindra and H.M. Mittal, "Systematic dependence of SFE_B(E2)"
	(2017) (7 pages)	kinematic and dynamic moment of inertia of superdeformed bands with NpNn scheme"
2017	Chinese Physics C Vol. 41, No.8	Honey Sharma, Neha Sharma and H.M. Mittal, "Systematic study of
2017	Chinaga Dhysias C Val. 41 No. 9	bands of A=190 mass region"  Honory Sharma, Naha Sharma and H.M. Mittal, "Systematic study of
2017	Eur. Phys. J. A (2017)53: 132	Anshul Dadwal and H.M. Mittal, "Description of identical superdeformed
2017	(2017) 124105 (12 pages)	formulae for superdeformed bands in La and Ce isotopes "
2017	Chinese Physics C Vol. 41, No. 12	Honey Sharma and H M Mittal, "Systematic study of rotational energy
2017	1750074 (14 pages)	formula"
	Physics E Vol.26, No.11(2017)	Superdeformed bands in A=60?80 mass region through nuclear softness
2017	International Journal of Modern	Honey Sharma and H M Mittal, "Band head spin assignment of
2017	48–58 International Journal of Modern	with Grodzins systematic in the framework of Asymmetric Rotor Model"  Honov Sharms and H.M. Mittal, "Band hard spin assignment of
2018	Nuclear Physics A Vol. 975 (2018)	Amit Bindra and H.M. Mittal, "The magnification of structural anomalies
2010	(2018) 054104	superdeformed bands in Hg isotopes through power index formula"
2018	Chinese Physics C Vol. 42, No. 5	Honey Sharma and H. M. Mittal, "Band head spin assignment of
2010	(2018) 1850048 (14 pages)	nature of gamma bands in A=100-200 mass nuclei"
2018	Modern Physics Letters A Vol. 33	Monica Karday, H. M. Mittal and Rohit Mehra "Systematic study of the
2010	Particle Physics Vol. (2018)  Modern Physics Letters A Vol. 22	yrast 152Dy: a systematic description"  Monico Kordov, H. M. Mittal and Pobit Mohro "Systematic study of the
2018	Journal of Physics G: Nuclear and	Anshul Dadwal and H.M. Mittal "Identical superdeformed bands in
2010	48–58	with Grodzins systematic in the framework of Asymmetric Rotor Model"
2018	Nuclear Physics A Vol. 975 (2018)	Amit Bindra and H.M. Mittal "The magnification of structural anomalies
2010	(2018) 054104 (14 pages)	superdeformed bands in Hg isotopes through power index formula"
2018	Chinese Physics C Vol. 42, No. 5	Honey Sharma and H M Mittal "Band head spin assignment of
2010	(2018) 1850048 (14 pages)	superdeformed bands in 133Pr using two-parameter formulae"
2018	Modern Physics Letters A Vol. 33	Honey Sharma and H. M. Mittal, "Band head spin assignment of
2010	91: 70. (11pages)	rigid triaxiality in Ba–Pt nuclei and role of Z = 64 subshell effect"
2018	Pramana Journal of Physics (2018)	Monica Karday, H. M. Mittal and Rohit Mehra, "Systematic study of
2010	(2018) 1850048 (14 pages)	nature of gamma bands in A=100-200 mass nuclei"
2018	1	Monica Karday, H. M. Mittal and Rohit Mehra, "Systematic study of the
2015	Particle Physics Vol. (2018)	152Dy: a systematic description"
2018	Journal of Physics G: Nuclear and	Anshul Dadwal and H.M. Mittal, "Identical superdeformed bands in yrast
	(2019) (12 pages)	structure of "flat" superdeformed bands"
2019	Physical Review C 99, 044305	Anshul Dadwal and H.M. Mittal, "Empirical evidence of a superrigid
2010	Di	A 1 1 1 II M M' 1 1 1 1 1

2015	Y 1 X . 1 CX . 1	D
2015	International Journal of Modern	Parveen Kumari and H M Mittal, "Systematic depandance of Grodzins
	Physics E Vol.24, No.5 (2015)	product rule on NpNn"
	1550033 (9 pages)	
2015	International Journal of Nuclear	H.M. Mittal and Parveen Kumari, "Systematic study of the subshell
	Energy Science & Technology	effect at Z=64 and the neutron discontinuity at N=88-90"
	Vol.9, No.1 (2015) 35-41	
2014	International Journal of Applied	Neha Sharma and H.M. Mittal, "Existence of structural effects in band
	Engineering Research, Vol. 9	moment of inertia of SD bands in A=190 mass region"
	No.11 (2014) 1305-1310	
2014	Innovations & Research in	Parveen Kumari and H. M. Mittal, "Nuclear Structure of the
	Physico-Chemical Sciences-A Step	<u>'</u>
	towards Sustainability (2014) pp.	neuron dericini 13200
	63-67 (ISBN: 978-93-83083-88-6)	
2013	International Journal of Modern	Naka Champa and H.M.Mittal. "Systematic study of myslean softness of
2013		Neha Sharma and H M Mittal, "Systematic study of nuclear softness of
	Physics E Vol.22 (2013), No.8,	superdeformed bands in A=190 mass region"
	1350053 (11 pages)	
2013	International Journal of Nuclear	H.M. Mittal and Neha Sharma, "Band moment of inertia of identical SD
	Energy Science & Technology	bands in A=190 mass region"
	Vol.7 (2013), No.4, 368-379	
2013	AIP Conference Proceeding Vol.	Neha Sharma, H M Mittal and A K Jain, "Influence of pairing
	1524 (2013) 194-196	correlations on SD bands of 130La and 132Pr in A=130 mass region"
2013	Physical Review C 87, 024322	Neha Sharma, H.M. Mittal, Suresh Kumar and A.K. Jain, "Empirical
		evidence for magic numbers of superdeformed shapes"
2012	Armenian Journal of Physics Vol.	H.M. Mittal and Neha Sharma, "Search of ±F0 symmetry and identical
	5, issue 4 pp. 165-175	bands in SD nuclei in 72 ? N ? 86 region"
2012	Journal of Physics: Conference	H.M. Mittal and Neha Sharma, "Adiabatic invariant behavior of
	Series Vol. 420 (2013) 012056	dynamical moment of inertia of superdeformed bands in the nucleus
	, ,	194TI"
2012	Turkish Journal of Physics Vol.	H.M. Mittal and Vidya Devi, "Nuclear structure of Xe-Pt nuclei in the
-	36, pp. 117-131	framework of ARM and odd-even staggering"
2011	International Journal of Nuclear	H.M. Mittal and Vidya Devi, "Search for Low Spin Identical Bands In
	Energy Science & Technology	Light Xe-Gd Nuclei"
	Vol.6, No.3 pp. 224-234	Eight 7te Ga Ptaelei
2011	Journal of Physics: Conference	H.M. Mittal and Vidya Devi, "Study of triaxiality in Xe-Hg nuclei"
2011	Series Vol. 312 092042(1-5)	11
2011	Journal of Physics: Conference	H.M. Mittal and Vidya Devi, "The odd-even staggering in 122-124Xe
2011	1	and 124-128Ba nuclei"
2011	Series Vol. 312 092041 (1-5)	
2011	International Journal of Nuclear	H.M. Mittal and Vidya Devi, "Interacting boson model-1 calculations
	Energy Science & Technology	for even-even 122-132Xe and 126-136Ba nuclei "
	Vol.6, No.1 pp. 64-75	
2010	Physica Scripta Vol. 81 (2010)	H.M. Mittal, Vidya Devi and J. B. Gupta, "Validity of Single-term
	015202 (6pp)	formula for ground band energies in light Xe-Gd nuclei"
2010	International Journal of Nuclear	Vidya Devi and H.M. Mittal, "Two parameter formula for ground band
	Energy Science & Technology	energy spectra of A=120-200 mass region nuclei"
	Vol.5, issue 2 pp.134-142	
2009	Armenian Journal of Physics Vol.	H.M. Mittal and Vidya Devi, "Evidence for possible O(6) symmetry in
	2, issue 3 pp. 146-156	A=120-200 mass region"
2009	International Journal of	H.M. Mittal and Vidya Devi, "Study of two parameter formula for
	Theoretical and Applied Sciences	gamma band energies in Xe-Pt nuclei"
	Vol. 1(2) pp. 5-8	
2009	International Journal of	H.M. Mittal and Vidya Devi, "The systematic study of odd-even
_007	Theoretical and Applied Sciences	staggering in A=130-200 region"
	Vol. 1(1) pp. 96-102	5m56ving in 11-130 200 1051011
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	1991	Physica Scripta Vol.41	H.M Mittal, S. Sharma and J. B. Gupta, "Tests of rigid triaxiality for		
		pp:558-560	light Te-Sm nuclei"		
	1990	Physical Rev. C Vol.42	J.B.Gupta, H.M Mittal, J.H. Hamilton and A.V. Ramayya, "Systematic		
		pp:1373-1379	dependence of the ?-g B(E2) ratios of NpNn product"		
	1990	Physica Scripta Vol.41 (1990)	J.B.Gupta, H.M Mittal and S. Sharma, "Study of shape phase transition		
		pp:660-666	and the F-spin multiplets through the shape fluctuation energy"		

## **Conference Publications:**

Year	Conference	Publication
2022	DAE-BRNS Symposium on Nuclear Physics (India)	H.M. Mittal and Honey Sharma "Validity of rotational
	66 (2022) 246	energy formulae for super deformed band in 83Y"
2021	DAE-BRNS Symposium on Nuclear Physics (India)	Honey Sharma and H. M. Mittal "Band head spin
	65 (2021) 98	determination for superdeformed bands in 83Y"
2021	DAE-BRNS Symposium on Nuclear Physics (India)	Vidya Devi and H. M. Mittal and J.B. Gupta "Shape
	65 (2021) 200	fluctuation model of ground state band in Gd
		isotopes"
2019	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal, Monica Karday, and Anshul Dadwal,
	64 (2019) 134	"Test for validity of rotational energy formulae for SD
		bands"
2019	DAE-BRNS Symposium on Nuclear Physics (India)	Monica Karday, Anshul Dadwal, and H. M. Mittal,
	64 (2019) 136	"Spin determination and role of pairing correlations in
		the SD bands of Hg isotopes"
2019	DAE-BRNS Symposium on Nuclear Physics (India)	Honey Sharma and H. M. Mittal, "Systematic study of
	64 (2019) 184	rotational properties for triaxial superdeformed bands
		of 164Lu(1, 2)"
2019	DAE-BRNS Symposium on Nuclear Physics (India)	Honey Sharma and H. M. Mittal, "Systematic study of
	64 (2019) 186	rotational energy formulae in superdeformed bands of
		86Zr"
2019	DAE-BRNS Symposium on Nuclear Physics (India)	Honey Sharma and H. M. Mittal, "Band head moment
	64 (2019) 188	of inertia of superdeformed bands in La-Nd in A?130
		mass region"
2019	DAE-BRNS Symposium on Nuclear Physics (India)	Vidya Devi and H. M. Mittal, "Spins of
	64 (2019) 262	Superdeformed Bands in Zr isotopes"
2018	International Symposium on Nuclear Physics at	H M Mittal and Anshul Dadwal, "Empirical evidence
	Bhabha Atomic Research Centre, Mumbai (India)	of super-rigid structure in superdeformed band of A ~
2010	Vol. 63 (2018) 108	190 mass region"
2018	International Symposium on Nuclear Physics at	H M Mittal and Monica Karday, "Test for the global
	Bhabha Atomic Research Centre, Mumbai (India)	validity of Grodzins product rule"
2010	Vol. 63 (2018) 138	TIME CITY OF ACCUMENT
2018	International Symposium on Nuclear Physics at	H M Mittal and Honey Sharma, "Signature partners
	Bhabha Atomic Research Centre, Mumbai (India)	pairs in triaxial superdeformed band of 164Lu
2019	Vol. 63 (2018) 136	isotopes"  Honov Sharms and H.M.Mittal, "I–2 staggaring in
2018	International Symposium on Nuclear Physics at	Honey Sharma and H M Mittal, "I=2 staggering in superdeformed band of different mass regions"
	Bhabha Atomic Research Centre, Mumbai (India)	superdeformed band of different mass regions
2018	Vol. 63 (2018) 150 International Symposium on Nuclear Physics at	Honey Sharma and H M Mittal, "Study of
2016	Bhabha Atomic Research Centre, Mumbai (India)	backbending in superdeformed band of \$^{36}Ar\$
	Vol. 63 (2018) 152	through two parameter formula"
2018	International Symposium on Nuclear Physics at	Vidta Devi and H M Mittal, "Study of \$\Delta I=2\$
2016	Bhabha Atomic Research Centre, Mumbai (India)	staggering in Eu and Dy isotopes"
	Vol. 63 (2018) 190	staggering in Eu and Dy isotopes
	V 01. 03 (2010) 170	

2010	Internal Comments of New York	N. 1 - Cl
2018	International Symposium on Nuclear Physics at	Neha Sharma and H M Mittal, "Systematics of
	Bhabha Atomic Research Centre, Mumbai (India)	Superdeformed band in the isotopes of Zn and Ge in
2015	Vol. 63 (2018) 214	A=60 Mass region"
2017	DAE-BRNS Symposium on Nuclear Physics (India)	Neha Sharma, H.M. Mittal, and A.K. Jain, "Evidence
	62 (2017) 78	of increasing deformation with particle number for
		superdeformed shapes"
2017	DAE-BRNS Symposium on Nuclear Physics (India)	Vidya Devi and H. M. Mittal, "Identical energy bands
	62 (2017) 136	of 236U and 238U isotopes by using two parameter
		formula"
2017	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal and Anshul Dadwal, "Pairing
	62 (2017) 156	correlation in the flat bands of the superdeformed Pb
		nuclei"
2017	DAE-BRNS Symposium on Nuclear Physics (India)	Monica Karday, H. M. Mittal and Rohit Mehra,
	62 (2017) 158	"Systematic study of triaxial deformation in Ba- Pt
		nuclei"
2017	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal and Honey Sharma, "Search of identical
	62 (2017) 166	superdeformed bands in 195Tl and 197Bi possessing
		same F0 symmetry"
2017	DAE-BRNS Symposium on Nuclear Physics (India)	Honey Sharma and H. M. Mittal, "Systematic study of
	62 (2017) 178	superdeformed bands in 152Tb"
2017	DAE-BRNS Symposium on Nuclear Physics (India)	Parveen Kumari and H.M. Mittal, "Systematic study
	62 (2017) 240	of (R4/2 *B(E2) ") product with NpNn"
2017	DAE-BRNS Symposium on Nuclear Physics (India)	Anshul Dadwal and H. M. Mittal, "I = 4 bifurcation
	62 (2017) 310	in superdeformed 194Hg nucleus"
2016	DAE-BRNS Symposium on Nuclear Physics (India)	Neha Sharma, H. M. Mittal, and A. K. Jain, Influence
	Vol. 61 (2016) pp. 88	of triaxiality on yrast and excited Superdeformed
		bands
2016	DAE-BRNS Symposium on Nuclear Physics (India)	Anshul Dadwal and H. M. Mittal, Spins of
	Vol. 61 (2016) pp. 132	superdeformed rotational bands in A ? 190 mass
		region
2016	Proceedings of National Conference on Recent Trends	H. M. Mittal and Anshul Dadwal, Band head spin
	in Nuclear Physics, Aligarh Muslim University,	prediction of 193Pb superdeformed nucleus
	Aligarh (2016) Pg. 39-40.	
2016	DAE-BRNS Symposium on Nuclear Physics (India)	Amit Bindra and H. M. Mittal, Systematic
	Vol. 61 (2016) pp. 250	dependence of SFE ? B(E2) ? and ROT E ? B(E2) ?
		on NpNn in A = 100-200 mass region
2016	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal, Parveen Kumari and Monica Karday,
	Vol. 61 (2016) pp. 276	Structure of 152Nd nucleus in IBM
2016	DAE-BRNS Symposium on Nuclear Physics (India)	Vidya Devi and H. M. Mittal, Phenomenological
	Vol. 61 (2016) pp. 218	description of even-even isotopes in the A < 100
		mass region
2016	DAE-BRNS Symposium on Nuclear Physics (India)	Neha Sharma, H. M. Mittal, and A. K. Jain, Global
	Vol. 61 (2016) pp. 214	features of band moment of inertia and softness
	`	parameter of superdeformed bands
2016	DAE-BRNS Symposium on Nuclear Physics (India)	Honey Sharma, Neha Sharma, H. M. Mittal, Study of
	Vol. 61 (2016) pp. 212	F- spin symmetry and identical spectra in
		Superdeformed nuclei in A~ 130 mass region
2016	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal and Parveen Kumari, Study of the
	Vol. 61 (2016) pp. 142	product (R4/2 ? B(E2) ?) through Asymmetric Rotor
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2016	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal and Anshul Dadwal, Signature partner
	Vol. 61 (2016) pp. 134	pairs of superdeformed rotational bands in 192Tl
	, or or (2010) pp. 101	parts of superactormed foundational bands in 17211

2015	DAE-BRNS Symposium on Nuclear Physics (India)	Vidya Devi and H. M. Mittal, Nuclear structure of Pd
	Vol. 60 (2015) pp. 188	nuclei in the framework of IBM-1 and odd even
	711	staggering
2015	DAE-BRNS Symposium on Nuclear Physics (India)	Amit Bindra and H. M. Mittal, Systematic study of
2010	Vol. 60 (2015) pp. 160	Grodzins Product Rule (GPR) with P- Factor
2015	DAE-BRNS Symposium on Nuclear Physics (India)	Neha Sharma, H. M. Mittal and A. K. Jain, Band
2010	Vol. 60 (2015) pp. 254	moment of inertia of yrast and excited SD band of
	voi. 66 (2015) pp. 25 1	even-even nuclei in A=150 mass region
2015	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal, Honey Sharma and Neha Sharma,
2010	Vol. 60 (2015) pp. 136	Systematic study of kinematic and dynamic moment
	voi. 66 (2015) pp. 156	of inertia of SD band in A=150 mass region
2015	DAE-BRNS Symposium on Nuclear Physics (India)	Parveen Kumari and H. M. Mittal, Study of
	Vol. 60 (2015) pp. 168	multiphonon gamma-gamma band in 110Ru
2015	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal and Anshul Dadwal, Level spin for
	Vol. 60 (2015) pp. 132	superdeformed 195Hg nucleus
2014	DAE-BRNS Symposium on Nuclear Physics (India)	Vidya Devi and H. M. Mittal, The empirical study of
	Vol. 59 (2014) pp. 190	the energy spin relationship in the ground bands of
	/ Tr	even-even nuclei
2014	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal and Parveen Kumari, Systematic
	Vol. 59 (2014) pp. 176	dependence of product (E(2?)*B(E2)?) on asymmetry
	, , , , , , , , , , , , , , , , , , ,	parameter ?0
2014	DAE-BRNS Symposium on Nuclear Physics (India)	Neha Sharma, H.M. Mittal and A.K. Jain, Systematics
	Vol.59 (2014) pp.168	of band moment of inertia of excited SD bands of
		even-even nuclei in A=150 mass region
2014	DAE-BRNS Symposium on Nuclear Physics (India)	Parveen Kumari and H. M. Mittal, Nuclear structure
	Vol. 59 (2014) pp. 100	of multiphonon ??-band in neutron rich 112Ru
		nucleus
2013	International Symposium on Nuclear Physics at	Vidya Devi and H. M. Mittal, Ground-?-band
	Bhabha Atomic Research Centre, Mumbai (India)	odd-even staggering in 188-192Os and 228-230Th
	Vol. 58 pp. 168-169	nuclei
2013	International Symposium on Nuclear Physics at	Neha Sharma, H. M. Mittal and A. K. Jain,
	Bhabha Atomic Research Centre, Mumbai (India)	Systematic study of nuclear softness of superdeformed
	Vol. 58 pp. 162-163	bands with NpNn scheme in A=190 mass region
2013	International Symposium on Nuclear Physics at	H. M. Mittal and Parveen Kumari, Search the nature
	Bhabha Atomic Research Centre, Mumbai (India)	of multiphonon 2?-band of 158Dy
	Vol. 58 pp. 86-87	
2013	International Symposium on Nuclear Physics at	Neha Sharma, H. M. Mittal and A. K. Jain, Global
	Bhabha Atomic Research Centre, Mumbai (India)	study of softness parameter of superdeformed bands
	Vol. 58 pp. 78-79	
2012	DAE-BRNS Symposium on Nuclear Physics (India)	Vidya Devi and H. M. Mittal, The Study of different
	Vol. 57 (2012) pp. 376	dynamical symmetry in the Pd isotopes
2012	DAE-BRNS Symposium on Nuclear Physics (India)	Neha Sharma, H. M. Mittal and A.K. Jain, Super rigid
	Vol. 57 (2012) pp. 306	nature of super-deformed bands
2012	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal and Neha Sharma, Superdeformed GIB
	Vol. 57 (2012) pp. 304	phenomenon in A=60 and A=80 mass regions
2012	International Conference on Recent Trends in Nuclear	Neha Sharma, H. M. Mittal and A. K. Jain,
	Physics (ICRTNP-2012) at Chikara University,	Influence of pairing correlations on SD bands of
	Barotiwala, Solan	130La and 132Pr in A=130 mass region
2012	11th International Conference on Nucleus-Nucleus	H. M. Mittal and Neha Sharma, Adiabatic invariant
	Collisions (NN2012) in San Antonio, Texas, USA,	behavior of dynamical moment of inertia of
		superdeformed nuclear state
2011	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal, Neha Sharma, and A. K. Jain, Influence
	Vol. 56 (2011) pp. 334	of band interaction on superdeformed rotational bands

2011	DAE-BRNS Symposium on Nuclear Physics (India)	Neha Sharma, H. M. Mittal and A. K. Jain, Band
	Vol. 56 (2011) pp. 332	moment of inertia in signature partner and identical
	(2011) pp. 222	SD bands in odd – odd nuclei of A=190 mass region
2011	DAE-BRNS Symposium on Nuclear Physics (India)	Vidya Devi and H. M. Mittal, The study of 152Gd and
2011	Vol. 56 (2011) 250	154Dy isotopes in the frame work of interacting boson
	Vol. 30 (2011) 230	model and SU(5) symmetry
2011	DAE-BRNS Symposium on Nuclear Physics (India)	Vidya Devi and H. M. Mittal, The study of triaxial
	Vol. 56 (2011) 248	rotor model in A=120-200 mass region nuclei
2011	Gordan Research Conferences, Colby Sawyer College	H. M. Mittal, Neha Sharma and A. K. Jain, Search of
	New London, New Hampshire, USA	+F0 symmetry and identical bands in SD nuclei in
		N=72-86 region
2010	DAE-BRNS Symposium on Nuclear Physics (India)	Neha Sharma and H. M. Mittal, Evidence of identical
	Vol. 55 (2010) pp. 106	super deformed bands in N=112 isotones
2010	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal and Vidya Devi, The study of
	Vol. 55 (2010) pp. 104	126–136Ba isotopes in the frame work of interacting
		boson model
2010	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal and Vidya Devi, The Study of nuclear
	Vol. 55 (2010) pp.102	structure of A = 120-200 mass region nuclei in term
		of symmetry
2010	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal and Vidya Devi, Unified description of
	Vol. 55 (2010) pp. 100	the low lying states of the ground bands of Xe-Gd
		nuclei
2010	DAE-BRNS Symposium on Nuclear Physics (India)	Neha Sharma, H. M. Mittal and A.K. Jain, Features of
	Vol. 55 (2010) pp. 18	SD bands in odd – odd nuclei of A=190 mass region
2010	International Symposium on Nuclear Symmetry	H. M. Mittal and Vidya Devi, Low Spin Identical
	Energy, RIKEN, Wako, Japan	bands in Adjacent Even-Even nuclei of A=120-200
		region
2010	International Nuclear Physics Conference	H. M. Mittal and Vidya Devi, Study of Triaxiality in
	(INPC-2010) held at University of British	Xe-Pt nuclei
	Coulombia, Vancouver, Canada pp. 113	
2010	International Nuclear Physics Conference	H. M. Mittal and Vidya Devi, The odd-even
	(INPC-2010) held at University of British Coulombia,	staggering in 122-124Xe and 126-128Ba Nuclei
	Vancouver, Canada	
2010	3th International Conference on Current Problems in	H. M. Mittal and Vidya Devi, The Study of F-spin
	Nuclear Physics and Atomic Energy held at Kyiv,	Multiplet in Xe-Gd Nuclei
	Ukraine pp. 138-140	
2010	3th International Conference on Current Problems in	H. M. Mittal and Vidya Devi, Study of Ground and
	Nuclear Physics and Atomic Energy held at Kyiv,	Gamma Band Energies using Soft Rotor Formula for
	Ukraine pp. 85	A=120-150 mass Region Nuclei
2009	International Symposium on Nuclear Physics at	H. M. Mittal, Vidya Devi and Neha Sharma, Search of
	Bhabha Atomic Research Centre, Mumbai (India)	O(6) symmetry in A=120-200 mass region
	Vol. 54 pp. 172-173	
2009	International Symposium on Nuclear Physics at	H. M. Mittal and Vidya Devi, Study of identical bands
	Bhabha Atomic Research Centre, Mumbai (India)	with NpNn scheme in A=120-200 mass region
	Vol. 54 pp. 170-171	
2009	International Symposium on Nuclear Physics at	H. M. Mittal and Vidya Devi, Study of Triaxial rotor
	Bhabha Atomic Research Centre, Mumbai (India)	model and calculation of deformation parameter beta
	Vol. 54 pp. 168-169	and gamma in A=120-200 mass region
2009	International Symposium on Nuclear Physics at	H. M. Mittal, Vidya Devi and J. B. Gupta,
	Bhabha Atomic Research Centre, Mumbai (India)	Comparative study of two parameter formulae for
	Vol. 54 pp. 166-167	A=120-200 mass region
2008	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal, Vidya Devi and J. B. Gupta, Identical
	Vol. 53 (2008) pp. 279	bands in Ba-Dy, N<104 space

2008	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal, Vidya Devi and J. B.Gupta, Search for
	Vol. 53 (2008) pp. 277	identical bands in the N<82 nuclei
2008	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal, Vidya Devi and J. B. Gupta,
	Vol. 53 (2008) pp. 275	Investigation of odd-even staggering in A=130-200
		region
2008	2th International Conference on Current Problems in	H. M. Mittal and Vidya Devi, Systematic study of
	Nuclear Physics and Atomic Energy held at Kyiv,	shape fluctuation energy and rotational energy in the
	Ukraine pp. 396-400	framework of ARM
2007	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal and Vidya Devi, Study of shape
2007	Vol. 52 (2007) pp. 260	fluctuation energy and rotational energy in the
	voi. 32 (2007) pp. 200	framework of Asymmetric Rotor Model
2007	6th International Conference on Nuclear and Particle	H. M. Mittal and Vidya Devi, Investigation of
2007		-
	Physics (NUPPAC-2007) held at Luxor, Egypt	identical band in light Te-Gd nuclei
2005	NSS2-5 (113)	W. M.
2007	International Nuclear Physics Conference	H. M. Mittal and Vidya Devi, Single term energy
	(INPC-2007) held at Tokyo International Forum	expression for g-band in light Te-Gd nuclei
	Tokyo, Japan QM-022	
2006	DAE-BRNS Symposium on Nuclear Physics (India)	H. M. Mittal, Vidya Devi and J. B. Gupta, Study of
	Vol. 51B (2006) pp. 312	g-Band in Light Te-Gd Nuclei Using Single Term
		Energy Expression
2005	DAE-BRNS 50th Symp. on Nucl. Phys. (India) Vol.	H. M. Mittal & Satendra Sharma, Study of 150Nd in
	50 (2005) pp. 291	Interacting Boson Model-1
2005	National Conference on Advances in Condensed	H. M. Mittal, Moninder Kaur, S.Sharma & J. B.
	Matter Physics (ACMP-05), School of Physics and	Gupta, Nuclear Structure of N=88-90 Isotones of
	Material Science, Thaper Institute of Engineering and	Ba-Yb in the Interacting Boson model-1
	Technology, Patiala, (2005) pages 148-152	
2004	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 47B	H. M. Mittal & J. B. Gupta, Study of 154Gd Nuclei in
	(2004) pp. 98	IBM-1
2003	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 46B	H. M. Mittal & J. B. Gupta, Study of 158Er Nuclei in
2003	(2003) pp. 166	IBM-1
2002	DAE-BRNS Symp. on Nucl. Phys. (India) Vol.45B	H. M. Mittal & J. B. Gupta, Study of IBM Wave
2002	(2002) pp. 96	Functions in 152 Sm
2001	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 44B	H. M. Mittal & J. B. Gupta, Study of IBM Wave
2001	(2001) pp. 66	Functions in 160 DY
2001	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 44B	H. M. Mittal & J. B. Gupta, Study of IBM Parameters
2001		*
1005	(2001) pp. 64	for N=88 and N=90 Isotones
1997	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 40B	H. M. Mittal and S. P. Sud, An Application of the
	(1997) pp. 74	Asymmetric Rotor Model of the 144-150Nd Isotopes
1995	International Nuclear Physics Symposium (INSP-95)	H. M. Mittal, S. Sharma, S. K. Soni, K.S. Sen and S.
	Bombay, Vol. 38B pp. 59-60	P. Sud, A Test of F-spin multiplets in Light Te-Sm
		Nuclei
1994	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 37B	H. M. Mittal, S. Sharma, K. S. Sen, S. K. Soni and S.
	(1994) pp. 87	P. Sud, Study of 196Pt Nuclei in IBM-1
1994	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 37B	S. Sharma, H. M. Mittal, S. K. Soni, K. S. Sen and S.
	(1994) pp. 53	P. Sud, An Application of the Asymmetric Rotor
		Model to N=84 isotones 138Xe – 146Sm
1994	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 37B	H. M. Mittal, S. Sharma and S. P. Sud, Nuclear
	(1994) pp. 43.	Structure of 140-146Ba isotopes in the IBM-1
1993	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 36B	S. Sharma, K. S. Sen, H. M. Mittal and S. P. Sud,
1775	(1993) pp. 84	Nuclear Structure of 154-160Dy in the Asymmetric
	(1775) pp. 01	Rotor Model
1992	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 35B	H. M. Mittal, Nuclear Structure of 142-148Ce in the
1772		
	(1992) pp. 72	IBM-1

1992	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 35B (1992) pp. 44	S. Sharma, K. S. Sen, H. M. Mittal and S. P. Sud, Calculation of Moment of Inertia of Ground State
		from the Nuclear Softness Model
1992	International Nuclear Physics Conference, Wiesbaden,	
	Germany, pp: 1.1.25-1.126	Nuclear Structure of N=88-90 Isotones of Ba-Yb in
		the Interacting Boson Model-1
1992	International Nuclear Physics Conference, Wiesbaden, Germany, pp: 1.1.21-1.122	H. M. Mittal, Study of Beta Softness in 158Dy
1990	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 33B	J. B. Gupta and H. M. Mittal, Study of SU(3)
	(1990) pp. 53	wavefunctions in the SU(5) basis
1990	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 33B	H. M. Mittal, and J. B. Gupta, Study of N=88 and
	(1990) pp. 35	N=90 isotones in the IBM-1
1990	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 33B	J. B. Gupta and H. M. Mittal, Study of beta softness in
	(1990) pp. 15	158Dy
1989	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 32B	Satendra Sharma, H. M. Mittal and J. B. Gupta,
	(1989) pp.106	Calculation of moment of inertia from the nuclear
		softness model
1989	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 32B	H. M. Mittal, J. B. Gupta and Satendra Sharma, Tests
	(1989) pp. 104	of rigid triaxiality for light Te-Sm nuclei
1988	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 31B	J. B. Gupta, S. Sharma and H. M. Mittal, Systematic
	(1988) pp. 22	dependence of B(E2) branching ratios on NpNn
		product
1988	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 31B	J. B. Gupta, H. M. Mittal and Satendra Sharma,
	(1988) pp. 21	Nuclear structure of $N = 86$ isotones in the $IBM - 1$
1987	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 30B	H. M. Mittal, The systematic study of gamma and
	(1987) pp. 194	beta-bands in deformed nuclei
1986	DAE-BRNS Symp. on Nucl. Phys. (India) Vol. 29B	J. B. Gupta, H. M. Mittal and M. M. Gupta, Core
	(1986) pp. 171	versus particle effect on moment of inertia of odd A
		nuclei
	DAE-BRNS Symposium on Nuclear Physics (India)	Honey Sharma and H. M. Mittal, "Band head moment
	64 (2019) 188	of inertia of superdeformed bands in La-Nd in A?130
		mass region"

# **Research Projects:**

Role	Project	Title	Funding	From	То	Amount	Status	Co-Investi
	Type		Agency					gator
Principal	Research	Some	Department	Started from	May 2017	Rs.	Complete	None
Investigator	Project	Universal	of Science	May 2014		13,67880.	d	
		Features of	and			00		
		Nuclear	Technology					
		Structure in	(DST),					
		Superdeforme	Government					
		d Nuclei	of India					

# **Events Organized:**

Category	Type	Title	Venue	From	То	Designation
TEQIP-II	National	Recent Trends in	Dr. B.R. Ambedkar	11.03.2013	15.03.2013	Chief
sponsored		Advanced Materials and	National Institute of			Coordinator
Short Term		Computing Techniques	Technology,			
Course			Jalandhar			

TEQIP-II	National	Emerging Trends in	Dr. B.R. Ambedkar	10.06.2013	14.06.2013	Chief
sponsored	- (atronar	Physics and Information		10.00.2015	100.2015	Coordinator
Short Term		Technology	Technology,			Coordinator
Course		reemiology	Jalandhar			
A Short	National	Advances in Nuclear	Dr. B.R. Ambedkar	18.11.2013	29.11.2013	Course
Term	- Translar	Physics	National Institute of	10.11.2015	27.11.2013	Coordinator
Course		i ilysics	Technology,			Coordinator
Course			Jalandhar			
A Short	National	Dielectrics, Harmonic	Dr. B.R. Ambedkar	24.02.2014	28.02.2014	Course
Term	- Translar	Oscillators and its	National Institute of	21.02.2011	20.02.2011	Coordinator
Course		Applications	Technology,			Coordinator
Course		i ippii cations	Jalandhar			
TEQIP-III	National	Advanced Functional	Dr. B.R. Ambedkar	30.12.2019	03.01.2020	Member of
sponsored	T (dui o i i ui	Materials	National Institute of	0011212019	00.01.2020	Organizing
Short Term		17244411412	Technology,			Committee
Course			Jalandhar			
Conference	International	Recent Trends in the	Delhi Institute of	26.09.2019	27.09.2019	Member of
		Engineering,	Technology			Organizing
		Management and	Management and			Committee
		Science	Research, Faridabad			
Self-sponsor	National	Use of LaTex in	Department of	31.08.2020	04.09.2020	Member of
ed online		Typesetting Technical	Physics, Dr. B.R.			Organizing
Short Term		Documents	Ambedkar National			Committee
Course			Institute of			
			Technology,			
			Jalandhar.			
TEQIP-III	National	Advances in High	Dr. B.R. Ambedkar	18.09.2020	22.09.2020	Member of
sponsored		Energy Physics	National Institute of			Organizing
online Short			Technology,			Committee
Term			Jalandhar			
Course						
TEQIP-III	National	Recent Trends in	Dr. B.R. Ambedkar	21.09.2020	25.09.2020	Convener
sponsored		Advanced Materials and	National Institute of			
online Short		Devices	Technology,			
Term			Jalandhar			
Course						
TEQIP-III	National	Current Trends in	Dr. B.R. Ambedkar	25.09.2020	29.09.2020	Member of
sponsored		Condensed Matter	National Institute of			Organizing
online Short		Physics (CTCMP)	Technology,			Committee
Term			Jalandhar			
Course						

## **Professional Affiliations:**

Designation	Organization
Life Member, Membership	Indian Society for Technical Education (ISTE)
No. LM 28414	
Life Member, Membership	Indian Association of Physics Teachers (IAPT)
No. 2721 LM 4042	
Life Member, Membership	Indian Physics Association (IPA)
No. GEN/LM/13018	
Life Member, Membership	The Indian Science Congress Association
No. L40121	

Life Member, Membership	Nuclear Track Society of India
No. LM 446	

## PhD Supervised:

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Monica	Empirical and global study of nuclear structure in	Completed	2021	Dr. Rohit Mehra
	A=100-200 mass nuclei			
Amit Bindra	Systematic study of Nuclear Structure of	Completed	2019	None
	A=100-200 mass nuclei			
Honey Sharma	Systematic study of unique features of	Completed	2019	None
	superdeformation in different mass region			
Anshul Dadwal	Some Universal Features of Nuclear Structure in	Completed	2019	None
	Superdeformed nuclei			
Rajan Jakhu	Measurements of Natural Radionuclides for the	Completed	2018	Dr. Rohit Mehra
	assessment of the radiation dose in the environs			
	of Jaipur and Ajmer districts of Rajasthan			
Parveen Kumari	Global and systematic study of Nuclear Structure	Completed	2017	None
	of even-even nuclei of A=100-200 mass region			
Neha Sharma	Some Universal Features and Global Systematics	Completed	2013	Dr A K Jain Professor
	of Superdeformed bands			IIT, Roorkee
Vidya Devi	Empirical and Phenomenological Studies of	Completed	2011	None
	Nuclear Structure of A=120=200 mass Nuclei			

## **PG Dissertation Guided:**

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Shivlata	Study of Super Deformed Band in 194Hg and 193Tl Nuclei	Completed	2022	None
Shivam Gangwar	Study of superdeformed rotational bands in Hg isotopes	Completed	2022	None
Aalakh Kumar	Study of Magic Numbers for Superdeformed Shapes	Completed	2021	None
Manisha Kumari	Systematic Study of Deformation Parameter ? of Even-Even nuclei (Ba-Dy)	Completed	2021	None
Saurav Gangwar	Dynamic Moment of Inertia of Super Deformed Bands with Rotational Frequency in A=150 mass region	Completed	2021	None
Deepa Yadav	Boron neutron capture therapy (BNCT)	Completed	2020	None
Kanishka Sabharwal	Systematic study of Asymmetry parameter of even-even nuclei (Dy-W)	Completed	2019	None
Neha Dhanda	Systematic study of deformation parameter of even-even nuclei (Ba-Gd)	Completed	2019	None
Vishal	Systematic Study of dynamic moment of inertia of Super deformed Bands with Rotational Frequency in 190 mass region	Completed	2019	None
Ajay Yadav	Systematic study of kinetic and dynamic moment of inertia of superdeformed bands with NpNn scheme	Completed	2018	None
Arjun Sharma	Systematic study of deformation parameter of even-even nuclei (Xe-Dy)	Completed	2018	None
Mohan Yadav	Systematic study of deformation parameter ? of even-even nuclei (Er-Pt)	Completed	2018	None

Narendra Singh	Spin determination using relation between kinetic	Completed	2017	None
Lakhera	and dynamic moment of inertia in superdeformed			
	bands of Hg isotopes			
Sonam Yadav	Magic number of superdeformed bands	Completed	2017	None
Bindia Singla	Band Head Spin Assignment of Superdeformed	Completed	2016	None
	Rotational Bands in 193Pb			
Mandeep Kaur	Study of Moment of Inertia of Superdeformed	Completed	2016	None
	bands in191Hg and 193Hg			
Gaganpreet Kaur	Band head spin assignment of Ce isotopes of	Completed	2015	None
	superdeformed rotational bands			
Sukhwinder	Determination of spin and moment of inertia in	Completed	2015	None
Singh	superdeformed rotational bands of 194Tl			
Himani Gupta	Quantum phase transitions in the shape of atomic	Completed	2014	None
	nuclei			
Karanpreet	Reanalyzation and updation of the data of	Completed	2014	None
	interband B(E2) ratios in the rigid triaxial model			
Payal Jain	Shape coexistence in atomic nuclei	Completed	2013	None
Rashmi Arora	Quantum phase transitions in the shape of atomic	Completed	2013	None
	nuclei			
Surbhi Pandit	Random matrices and chaos in nuclear physics	Completed	2013	None
Poonam Kumari	Gutzwiller trace formula and its applications	Completed	2012	None
Poonam Chandel	Review of trace formula for 2D equilateral	Completed	2012	None
	triangle billiard			
Sandeep Kumar	Nuclear shell model and it's applications to	Completed	2011	None
	calcium isotopes			
Jaspreet Kaur	Chaos and the nuclear model	Completed	2010	None
Balbir Kaur	A review on neutrino properties, neutrino	Completed	2010	None
	oscillation and solar neutrino problem			
Mandeep Kaur	The Hartree Fock theory and its applications	Completed	2009	None
Arvind Kumar	Pair correlation in nuclei : A BCS model	Completed	2009	None
Navdeep	The shell model as a unified view of nuclear	Completed	2008	None
	structure			
Keerti	Neutrino-less double beta decay	Completed	2008	None
Neeraj	Determination of Nuclear masses	Completed	2008	None

# Admin. Responsiblities:

Position Held	Organization	From	To
Member, industry institute	Dr.B.R. Ambedkar N.I.T, Jalandhar	July 2002	June 2003
partnership cell and continuing			
education			
Member of the committee for	Dr.B.R. Ambedkar N.I.T, Jalandhar	July 2001	June 2002
preparation of Prospectus and			
curriculum book			
Member, Purchase Committee	Dr.B.R. Ambedkar N.I.T, Jalandhar	30.4.2003	1.4.2004
Member, Purchase Committee	Dr.B.R. Ambedkar N.I.T, Jalandhar	1.12.2005	31.12.2005
Faculty Incharge, Game: Chess	Dr.B.R. Ambedkar N.I.T, Jalandhar	July, 2005	July,2006
Member, Purchase Committee	Dr.B.R. Ambedkar N.I.T, Jalandhar	1.7.2006	31.7.2006
Academic Counselor: Physics for	Dr.B.R. Ambedkar N.I.T, Jalandhar	2007	2011
2007 batch students			
Member, Board of Studies of	Dr.B.R. Ambedkar N.I.T, Jalandhar	1998	till date
Department of Physics, NIT,			
Jalandhar			

Member, Board of Rajbhasha	Dr.B.R. Ambedkar N.I.T, Jalandhar	2008	2009
Samiti, NIT, Jalandhar.			
Executive Member, Alumni	Dr.B.R. Ambedkar N.I.T, Jalandhar	2008	2009
Association of NIT, Jalandhar			
Member, Purchase Committee	Dr.B.R. Ambedkar N.I.T, Jalandhar	1.9.2008	30.10.2008
Academic Counselor: Physics for	Dr.B.R. Ambedkar N.I.T, Jalandhar	2009	2013
2009 batch students.			
Member M.Sc. and Ph.D.	Dr.B.R. Ambedkar N.I.T, Jalandhar	2006	till date
Admission Committee of			
Department of Physics, NIT,			
Jalandhar			
Member, Purchase Committee	Dr.B.R. Ambedkar N.I.T, Jalandhar	01.05.2011	31.05.2011
Head, Department of Physics,	Dr.B.R. Ambedkar N.I.T, Jalandhar	05.09.2012	04.09.2014
NIT, Jalandhar			
Academic Counselor: Physics for	Dr.B.R. Ambedkar N.I.T, Jalandhar	2018	2019
2018 batch students			
Associate Dean (Faculty Welfare)	Dr. B. R. Ambedkar N.I.T, Jalandhar	24-01-2019	05.02.2020
Chairman, Hindi Cell (Rajbhasha)	Dr. B.R. Ambedkar N.I.T, Jalandhar	02.03.2021	till date
Head, Department of Physics	Dr. B.R. Ambedkar N.I.T, Jalandhar	16.02.2023	till date

### **Award and Honours:**

Title	Activity	Given by	Year
Senior Research Fellowship	Research Work, Delhi	DAE-BRNS	1989
	University, Delhi		