

## SLC (University of Delhi) Shyam Lal College



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## **Faculty Profile**

Designation       Assistant Professor         Department       Physics         Address       Image: Comparison of the professor of the physics of the p	
Department Physics Address  Email monica.gambhir@shyamlal.du.ac.in	
Email monica.gambhir@shyamlal.du.ac.in	
	NAME ASSOCIATION
Web-Page	12 12 1-1
Educational Qualification	
Degree Subject University/ College/Institution	Year
PhD Physics Department of Physics and Astrophysics, University of Delhi.	2010
M.Sc. Physics Miranda House College, University of Delhi	2003
B.Sc.(Hons.) Physics Miranda House College, University of Delhi	2000
Experience	
Name of the University/College/ Institute/Organisation  Vermanent/Ad-hoc)  Designation & From To (Permanent/Ad-hoc)	Effective time period
Teaching Shyam Lal College, University of Delhi Permanent August 2023 Continuing	
Swami Shraddhanand College, University of Delhi Ad-hoc August 2011 June 2023	12 years
Miranda House, University of Delhi Ad-hoc	1.5 year
Daulat Ram College, University of Delhi Ad-hoc	2.5 years
Research/ Corporate	
Consultancy	
Teaching-Learning Process (Academic Year 2022-23 Onwards)	
Are You using ICT (LMS, E- Resources)?  If yes, please give the details below:	
Name Total Numb	ers
E-Resources	
Techniques and	

Platform	S								
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Career A	Advance	ement and				te Life (20	22-23 Onwards)		
			Name of the Committee/ Centre/ Society/ Cell			Designation		rom	То
Conveno Committ		er of	Admission Co (Physical Scio	ommittee of B ence)	.Sc	Conve	ner 2	022	2023
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		_	Computer Co	mmittee		Member		022	2023
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			Science			Memb	per 2	023	2024
			Fine Arts Cor	nmittee		3.6.1		022	2024
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3.		um Physic	es						
Subjects	Taught	t					Т.		
S. No.			Subject			S. No.		Subject	
1.	Mathe	matical P	hysics			5.	Electromagnetic		
2.	Quant	um Physic	es			6.	Electricity and M	agnetism	
3.	Eleme	nts of Mo	dern Physics			7.	Mechanics		
4.	Solid	State Phys	sics			8.	Waves and Optics	S	
Publicat	ions: C	itation In	dex in Scopu	s/Web of Scien	nce or P	ub Med/ I	ndian Citation Ind	lex	
Title of Paper the Autho			f Title of the Journal	Year of Publication	Citati on Index	h-Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations	Impact factor, if any
Impact of asymmetry of Razavy-type coupled well system and static electric field on the time- dynamical studies of entanglement			Eur. Phys. J. Plus	2023			University of Delhi		
Anomalous Stark effect and optical			Current Applied Physics	2023			University of Delhi		

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properties of						
exciton in a						
quantum dot						
with linear						
potential under						
ionized donor						
hydrogenic						
impurity						
Effect of						
electric and						
magnetic field						
on thermal						
	Results			University of		
property of	in	2023				
two	Physics			Delhi		
dimensional						
harmonic						
oscillator						
Investigation						
of linear and						
third-order						
nonlinear						
optical						
properties in a						
laser-dressed	T 11 T			TT :		
parabolic	Indian J	2023		University of		
quantum dot	Phys	2023		Delhi		
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electric field						
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quantum dot	– J.	2021		University of		
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effects in a						
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electrostatic	of	2021		University of		
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studies in excitonic coupled quantum system us high-inter THz laser fields.	well sing nsity		hin. ys. B	2019			Universit Delhi	-		
	d Chapters in			es/Books publi ar	ished, an	d papers i	in National	/Interi	national conf	erence
Title o	of Book/Paper/ Chapter	Book		Publisher		Nation	al/Internatio	nal	Yea	r
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Sr. No.	Sr. No. International/state			Topic			d Date // Resource Person		Duration	
1.	Internat Confer		Con Mo Nan wit Teo Un	"International Conference on Atomic, Molecular, Material, Nano & Optical Physics with Applications Delhi Technological University (DTU), New Delhi, India.		Invited Talk			December 20-22, 2023	
2.	Internat Confer		on Bas Sci Fac Bal Un (Ro	International Conference on "Recent Advances in Basic and Applied Sciences" held at Faculty of Sciences, Baba Mastnath University, Asthal Bohar (Rohtak), on 27th-28th August 2021.		Key Note Address			27th-28th August 2021	Conferences
3.	Internat Confer		Inte on Fur org De	International Conference on Recent Advances in Functional Materials organized by the Department of Physics, ARSD College		Oral Pre	esentation		14 -16th March 2022.	

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				National C	Conference On						
				Recent Ad	vances in						
				Materials and Field							
					CRAMFT),						
4.	,	National		• `	nt of Applied	Oral progent	ation		December		
4.	-	National				Oral presenta	ation		2015.		
				Science, B							
					Institute of						
				Technolog	y (BPIT),						
				Rohini							
										Workshops	
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Researc	h Projects	s/ Innov	ation Pr	ojects (Maj	or Grants/Res	earch Collabor	ation)				
S.	No.		Titl	le of the Pro	ject	Funding A	gency		Status/O	utput	
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Researc	h Guidan	ce (Pn. I	D./ MI. P	n11.)	No. of Ph.D.	Students		No	of M.Phil. S	Students	
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Refresh	er/ Orient	tation P	rogramn	ne/ FDP / O	ther Specialise	ed Courses					
S.No.			opic			e Organiser	P	lace	Duratio	n and Year	
1.	4-Week	Faculty	Induction	on/	Teaching Learn	ning Centre		Delhi	21 Au	gust – 19	

	Orientation Programme for	Ramanujan College,		September, 2023	
	"Faculty in Universities/	University of Delhi			
	Colleges/Institutes of Higher				
	Education"				
	One Week Faculty Development	Department Of Electronic			
	Program (Online-Self Paced) on	Science & Internal Quality			
	"Advanced Python	Assurance Cell (Iqac)		09 <sup>th</sup> October – 15 <sup>th</sup>	
2.	Programming for All"	Atma Ram Sanatan Dharma	Delhi		
		College And Teaching		October, 2023	
		Learning Centre, Ramanujan			
		College (University Of Delhi)			
	Two Weeks Online Training	Organized by Mahatma			
	Programme on NEP 2020	Hansraj Malaviya Mission		01st January –	
3.	Orientation & Sensitization	Teacher Training Centre	Delhi	•	
	Programme"	(MH-MMTTC), Hansraj		14th January, 2024	
		College, University of Delhi			
4.	Faculty Induction Programme:	Organized by University of	Delhi	December 1, 2023	
4.	NEP 2020	Delhi	Delili	December 1, 2023	
	One Week Online Faculty	Shyam Lal College			
5.	Development Programme	in collaboration with			
	On "Recent Advances in Basic and	Mahatma Hansraj Malaviya	Delhi	11th – 16th	
	Applied Sciences"	Mission Teacher Training	Delili	December, 2023	
		Centre (Hansraj College,			
		University of Delhi			

## **Declaration**

I do hereby solemnly declare that the information given and the statements made by me are correct and true to the best of my knowledge.

**Signature with Full Name**