

Chaudhary Devi Lal University, Sirsa



BIO-DATA

Dr. Ram Mehar Singh
Assistant Professor
Department of Physics
CDLU, SIRSA

CHAUDHARY DEVI LAL UNIVERSITY, SIRSA



Bio-Data

1. **Name (in Block Letters)** : DR. RAM MEHAR SINGH
2. **Father's Name** : SH. ZILE SINGH
3. **Mother's Name** : SMT. SHANTI DEVI
4. **Date of Birth** : 06-07-1973
5. **Department** : PHYSICS, CDLU SIRSA
6. **Current Designation & Grade Pay** : Assistant Professor & Rs. 7,000/-(GP)
7. **Date of appointment** : In the institution : 22.08.2007
In the present post : 22. 08 .2007
8. **Address for correspondence** : H. No. D-27, UNIVERSITY CAMPUS,
CH. DEVI LAL UNIVERSITY, SIRSA
HARYANA-125 055
9. **i) Mobile No** : 094162 73644
ii) Email : dixit_rammehar@yahoo.co.in

8. Qualifications :

- (i) 10th with first division from Board of School Education Haryana in 1990
- (ii) 10+2 with first division from Board of School Education Haryana in 1992
- (iii) B.Sc. (Electronics) with first division from Kurukshetra University Kurukshetra in 1995.
- (v) M.Sc. (Physics with specialization in Electronics) with first division from Kurukshetra University Kurukshetra in 1998.
- (v) M.Sc. (Computer Science) with first division from Ch. Devi Lal University, Sirsa in 1998.
- (vi) Ph.D. from Department of Physics Kurukshetra University Kurukshetra in 2010.
- (vii) GATE with 86.06 percentile conducted by IIT Kanpur in 2002.
- (viii) NET qualified conducted by UGC-CSIR New delhi in 2004.

9. Membership of Professional Bodies Editorship of Journals etc. :

- (i) Life member of The Indian Society for Technical Education. M.No- LM-4909.
- (ii) Sessional membership , The Indian Science Congress (2014-15)
- (iii) Referring of Research Papers of Journal :
 - (a) Computer and Mathematics With Applications
 - (b) Results in Physics

10. Past Job Experience:

- (i) Worked as a lecturer in physics in Haryana College of Technology & Management, Kaithal, from Dec- 03 , 1998 to Aug -21,2007
- (ii) Worked as a lecturer in physics in R.K.S.D college Kaithal from Aug -01, 1998 to Feb-28 , 1999

11. Research Papers Published in Online/Indexed/Digital/Refereed Journals or Conference Proceedings, etc.

Sr. No.	Title with name of author(s) as appearing in the publication	Journal, Volume, Issue, Year, Page Numbers	Whether indexed/ refereed/ Non-refereed or Conference Proceedings	Impact factor, if any	ISSN / ISBN/A SIN No., if any	Whether you are first/ Principal /corresponding author or supervisor/mentor or other author
i.	“ The solutions of the Schrödinger equation for complex Hamiltonian system in two dimensions”, Fakir Chand, Ram Mehar Singh , Narender Kumar and S.C. Mishra.	Journal of Physics A: Mathematical and Theoretical, IOP Publishing, 40(2007) 10171-10182	Indexed & refereed	1.766	ISSN 1751-8121	Other Author
ii.	Solutions of the Schrödinger equation for two dimensional complex quartic potential, Ram Mehar Singh , Fakir Chand and S.C. Mishra.	Communication in Theor. Phys. IOP Publishing, 51(2009) 397-406	Indexed & refereed	0.949	ISSN 0253-6102	First Author
iii.	“ The solutions of the Schrödinger equation for a coupled quadratic and quartic potential in two dimensions”, Ram Mehar Singh , Fakir Chand and S.C. Mishra.	Pramana Journal of Physics 72(2009) 647-654	Indexed & refereed	0.56	ISSN 0304-4289	First Author
iv.	“ The solutions of the Schrödinger equation for a coupled quadratic and quartic potential in two dimensions”, Ram Mehar Singh , Fakir Chand and S.C. Mishra.	Pramana Journal of Physics 73(2009) 349-361	Indexed & refereed	0.56	ISSN 0304-4289	Other Author
v.	Exact solutions of the Schrodinger equation for an anharmonic potential in two dimensions, Ram Mehar Singh .	Applied mathematic and computation 218(2012) 6439-6445	Indexed & refereed	1.349	ISSN 0096-3003	Principal Author
vi.	Real eigenvalue of a non-hermitian Hamiltonian system, Ram Mehar Singh	Applied mathematics, V.3 Issue. 1 (2012)1117-23	Indexed & refereed	0.19	ISSN 2152-7393	Principal Author
vii.	Quantum mechanics of complex octic potential in one dimension, Ram Mehar Singh	Journal of quantum information science, V.3 (2013)42-49	Indexed & refereed	0.23	ISSN 2162-576X	Principal Author

viii.	Closed form solutions of the Schrodinger equation for a coupled harmonic potential in three dimensions, Ram Mehar Singh , S.B. Bhardaj , S.C. Mishra	Computer and mathematic with applications, 66(2013)537-541	Indexed & refereed	2.069	ISSN 0898-1221	First author & Supervisor
ix.	Compositional study of Indian five rupee coin by EDXRF technique, Rajive Kumar, Anita Rani, Ram Mehar Singh	International review of applied engineering research, V.2 No. 1 (2014)83-88	Indexed & refereed	0.0	ISSN 2248-9967	Supervisor
x.	Elemental analysis of Indian rupee coin by using EDXRF technique, Rajive Kumar, Anita Rani, Ram Mehar Singh	Journal of integrated science and technology, V.2 Issue. 1 (2014)1-4	Indexed & refereed	0.0	ISSN 2321-4635	Supervisor
xi.	Exact solutions of the diffusion reaction equation for a coupled shifted harmonic oscillator, Ram Mehar Singh	International journal of innovation in science and mathematics V.2 Issue. 3 (2014)320-323	Indexed & refereed	0.0	ISSN (online) 2347-9051	Principal Author
xii.	Solving the diffusion reaction(D-R) equation for one-dimensional complex Hamiltonian systems Ram Mehar Singh	International journal of innovation in science and mathematics V.2 Issue. 3 (2014)324-328	Indexed & refereed	0.0	ISSN (online) 2347-9051	Principal Author
xiii.	On solving the diffusion reaction(D-R) equation for coupled harmonic and anharmonic potential in two dimensions Ram Mehar Singh	International journal of innovation in science and mathematics V.2 Issue. 3 (2014)316-319	Indexed & refereed	0.0	ISSN (online) 2347-9051	Principal Author
xiv.	Some remarks on diffusion reaction(D-R) equation for real systems, Ram Mehar Singh	International journal of innovation in science and mathematics V.2 Issue. 3 (2014)312-315	Indexed & refereed	0.0	ISSN (online) 2347-9051	Principal Author
xv.	On solving the Schrodinger equation for a complex deictic potential in one dimension Ram Mehar Singh	Pramana journal of Physics V. 83 No.3 (2014)301-316	Indexed & refereed	0.56	ISSN 0304-4289	Principal Author
xvi.	Normal Amplitude Squeezing Effects and Poissonian Photon Statistics During Seven-Wave Mixing Process , Ashok Kumar, Jawahar Lal, Ram Mehar Singh ,	J. Adv. Phys. 3, 116-118 (2014)	Indexed & refereed		ISSN: 2168-1996 (Print); EISSN: 2168-2003 (online)	Supervisor

xvii.	Squeezing of Fundamental Mode in Tenth Harmonic Generation <i>Ashok Kumar, Jawahar Lal, and Rammehar Singh</i>	J. Adv. Phys. 3, 130-132 (2014)	Indexed & refereed		ISSN: 2168-1996 (Print); EISSN: 2168-2003 (online)	Supervisor
xviii.	Eigenspectra of a complex coupled harmonic potential in three dimensions S.B. Bhardwaja, Ram Mehar Singh, S.C. Mishra	Computer and mathematic with applications, 68(2014)2068-2079	Indexed & refereed	2.069	ISSN 0898-1221	Corresponding author & Supervisor
xix.	Quantum mechanics of complex quartic potential in two dimensions Ram Mehar Singh, S.C. Mishra and Fakir Chand	International conference on "Recent developments in nonlinear dynamics" at school of physics, Bharathidasan University, Tiruchirapali-62004, Feb 13-16, 2008	Conference proceeding		ISBN-978-7319-941-7	First author
xx.	The Solutions of the Schrödinger equation for non-central potentials in two dimensions, S.C. Mishra Ram Mehar Singh and Fakir Chand.	International conference on "Recent developments in nonlinear dynamics" at school of physics, Bharathidasan University, Tiruchirapali-62004, Feb 13-16, 2008	Conference proceeding		ISBN-978-7319-941-7	Corress. author
xxi.	Analysis of LMD data of fragments coming from ${}^9\text{Be}({}^{11}\text{Be}, {}^{10}\text{Be})\text{X}$ and ${}^9\text{Be}({}^{15}\text{C}, {}^{14}\text{C})\text{X}$ stripping reaction, Monika Singh, Rajesh Kharab and Ram Mehar Singh	Proceedings of the DAE Symp on Nucl. Phys.59(2014)	Conference proceeding		ISBN/ISSN	Supervisor

12. Research Guidance :

Sr. No.	Course	No. of Students	Registered for Ph. D.	Thesis/Dissertation Submitted	Degree Awarded
(i)	PG Courses (Dissertation involving one semester)	21		Awarded	21
(ii)	Ph. D.	05	05	01	

13. Refresher Course, Methodology Workshops, Training, Teaching-Learning Evaluation Technology Programmes, Soft Skills Development Programmes, Faculty Development Programmes, etc.

Sr. No.	Programme	Duration	Organized by
i.	UGC sponsored orientation program	08-07- 2009 to 04-08-2009	UGC-Academic staff college Kurukshetra University, Kurukshetra
ii.	UGC sponsored refresher course in Physics	29-11-2010 to 18-12-2010	UGC- Academic staff College, GJUS & T, Hisar(Haryana)
iii.	UGC sponsored refresher course in Physics	01-05-2013 to 21-05-2013	UGC- Academic staff College, GJUS & T, Hisar(Haryana)

14. Participation and Paper (s) Presented in Conferences/Seminars/Workshops/Symposia, etc.

Sr. No.	Title of the paper presented	Presented by	Title of the Conference/ Seminar etc & Organizer	Date (s) of the event	Whether International/ National/ State/ Regional/ University or College level
(i)	“ The solutions of the Schrödinger equation for complex Hamiltonian system in two dimensions”.	Ram Mehar Singh	“National conference on nonlinear sustems and dynamics” at Physical research laboratory Navrangpura Ahmedabad-380009 Gujarat India	Jan 03-05, 2008	National
(ii)	Solutios of the differential equations for complex systems in two dimensions	Ram Mehar Singh	National conference on “Futurisycs trends in engineering and technology” organized by Jan Nayak Ch. Devi Lal memorial College of engineering Sirsa(Haryana)	Jan 28-29, 2008	National
(iii)	Quantum mechanics of complex quartic potential in two dimensions Ram Mehar Singh, S.C. Mishra and Fakir Chand	Ram Mehar Singh	International conference on “Recent developments in nonlinear dynamics” at school of physics, Bharathidasan University, Tiruchirapali-62004,	Feb 13-16, 2008	International
(iv)	Quasi-Exact solutions of the Schrodinger equation for a sextic potential in two dimensions,.	Ram Mehar Singh	National workshop on Nano technology and applied sciences organized by Haryana College of Technology & Management Kaithal	Nov. 28-29, 2009	National
(v)	Quasi-Exact Solutions of the Schrödinger Equation for a Complex Coupled Sextic Potentials in Two Dimensions	Ram Mehar Singh	Complex dynamical systems and applications	Dec. 4-6, 2009	International
(vi)	Quantum mechanics of shifted harmonic potential in one dimension	Ram Mehar Singh	International conference on “Sports, Biomechanics, Emerging Technology & Quality assurance in technical Education” Organized by Prannath Parnami institute of management & technology Hisar	March.17-18, 2012	International

(vii)	Exact solutions of the diffusion reaction equation in one dimension	Ram Mehar Singh	National conference on recent trends & technology Organized by Prannath Parnami institute of management & technology Hisar	June.04-06, 2012	National
(viii)	Construction of exact invariants for a dynamical system using extended complex phase space approach	Ram Mehar Singh	8 th Conference on Nonlinear system and dynamics at Indian Institute of technology Indore	Dec. 11-14, 2013	International
(ix)	Integrability of a dynamical system in complex phase space	Ram Mehar Singh	National Seminar on New Horizons in Computing Research organized by Department of Computer Science & Applications CDLU Sirsa	Feb26, 2015	National
(x)	Construction of invariants for a complex Hamiltonian system in 3-dimensions	Ram Mehar Singh	National conference on "Emerging trends in Physics and material Science" organized by Physics Department CDLU Sirsa	March 09-10, 2015	National
(xi)	Integrability of a coupled harmonic potential in complex phase space	Ram Mehar Singh	Conference on nonlinear systems and Dynamics at IISER Mohali	March 13-15, 2015	National
(xii)	Invariants for a complex cubic potential in three dimensions	Ram Mehar Singh	Conference on nonlinear systems and Dynamics at IISER Mohali	March 13-15, 2015	National
(xiii)	Integral of motion for a PT-symmetric potential in three dimensions	Ram Mehar Singh	National Conference on "Emerging Trends in Mathematical Sciences" organized by Department of Mathematics CDLU Sirsa	March 17-18, 2015	National

15. Invited for conferences/ seminars/ workshops/ symposia to deliver lectures/ chair sessions

Sr. No.	Whether Lecture delivered/ Academic Session Chaired	Title of the Lecture delivered	Title of Conference/ Seminar etc.	Date(s) of the event	Organizer	Whether International/ National/ State/ Regional/ University or College level
(i)	Lecture Delivered	A brief report on nonlinear dynamics	Recent developments in technology	Feb 13-16, 2008	School of physics, Bharathidasan University, Tiruchirapali-62004,	International
(ii)	Key note address	Role of emerging technologies & quality assurance in technical education	Sports, Biomechanics, Emerging Technology & Quality assurance in technical Education	March 17-18, 2012	Prannath Parnami institute of management & technology Hisar	International

16. Academic contribution through organizing conferences/ seminars/ workshops/ symposia/orientation/refresher courses, etc.

Sr. No.	Convener/Secretary/Member of Organizing/Advisory Committee, etc.	Date/Duration of Event	Whether International/ National/ State/ Regional/ University or College level
(i)	Organizing secretary, National conference on "Emerging trends in Physics and material Science" organized by Physics Department CDLU Sirsa	March 09-10, 2015	National

17. Academic contribution through participation in quality enhancement efforts

- (i) Member, NAAC Committee, CDLU Sirsa
- (ii) Member, PGBOS, Department of Physics, CDLU Sirsa
- (iii) Member, DRC, Department of Physics, CDLU Sirsa
- (iv) Member, Admission committee, Physical society, Staff council, Time table committee, Budget/Purchase committee Department of Physics, CDLU Sirsa
- (v) Member, University Industry Cell CDLU Sirsa
- (vi) Member, Executive committee of alumni association CDLU, Sirsa
- (vii) Member, Panel of the editor for the University magazine ZENITH CDLU, Sirsa
- (viii) Member, Inspection committee to grant extension in provisional affiliation for B.Ed course in respect of Ch. RR Memorial college of education Ellenabad
- (ix) Member, Inspection committee for DRDO New Delhi Research Project in Chemistry Department CDLU, Sirsa
- (x) Convener purchase committee for organization of seminar on Swami Vivekanand and his teaching on April 16, 2015.
- (xi) Member, Purchase committee for UGC Major Research Project in Department of Chemistry CDLU, Sirsa
- (xii) Member, Committee to discuss the recommendation given by Colonel (Ret) MS Dahiya, Shaurya

18. Details regarding participation in summer schools, workshops, seminars, symposia etc.

- (i) AICTE / ISTE – Short Term Training Programme on Recent Trends and Advances in semiconductor technology organised by Department of Physics, Institute of Information technology & Management, Gwalior (M.P) , from March 15 - 20, 2004.
- (ii) National conference on Recent advances in material science (RAMS-06) organized by Department of Physics Kurukshetra University Kurukshetra, from September 27-29, 2006.
- (iii) Workshop on MATLAB / SIMULINK Technology organised by Department of Electrical & Electronics Engineering, Haryana College of Technology & Management Kaithal, on Jan 4 , 2007.
- (iv) National Workshop on Nano Technology and Modeling organised by Department of Electronics & Communication Engineering, Haryana College of Technology & Management Kaithal, on Jan 5 , 2007.
- (v) DELNET One day orientation Programme organised in collaboration with Haryana College of Technology & Management Kaithal, on April 30 , 2007.
- (vi) A Short Term programme on Effective Teaching conducted by EDU & EDCL. Mgt Department Chandigarh at Haryana College of Technology & Management Kaithal, from Jul 30 , 2007 to August 03, 2007.
- (vii) Winter school on nonlinear dynamics (WINEXPNLD-2008) December 1-5, 2008
- (viii) National workshop and conference on “ Computational methods for Nonlinear Dynamics” organized by centre for Nonlinear Dynamics Bharathidasan University, Tiruchirapali-62004, from Sep 22-25, 2010.
- (ix) National workshop on “ Patent Awareness Vis-A-Vis intellectual Property Rights” organized by IPR & TC Cell Guru Jambheshwer University of Science & Technology Hisar – 125001 (Haryana) on August 9 , 2011.
- (x) National workshop on “ Patent Awareness Vis-A-Vis intellectual Property Rights” organized by IPR & TC Cell Guru Jambheshwer University of Science & Technology Hisar – 125001 (Haryana) on August 9 , 2011.
- (xi) National workshop on “ Patent Awareness: Issues & Challenges” organized by

Department of Biotechnology, Ch. Devi Lal University Sirsa– 125055 (Haryana) on August 10 , 2011.

- (xii) National workshop on “ Patent Awareness: Issues & Challenges” organized by Department of Biotechnology, Ch. Devi Lal University Sirsa– 125055 (Haryana) on August 10 , 2011.
- (xiii) National workshop on “ Patent Awareness: Issues & Challenges” organized by Department of Biotechnology, Ch. Devi Lal University Sirsa– 125055 (Haryana) on August 10 , 2011.
- (xiv) National seminar on “Communal harmony, peace and social justice” organized by UGC cell for coaching schemes, Ch. Devi Lal University Sirsa– 125055 (Haryana) on Dec. 06 , 2011.

19. Other Responsibilities Assigned by the University :

- (i) Programme Officer, NSS, UTD, CDLU, Sirsa w.e.f. Sept. 25, 2013
- (ii) Warden Boys Hostel-II, CDLU Sirsa w.e.f. June 20, 2014.

I certify that the information provided and/or the documents are correct as per records.

Date:

Signature of the Faculty