Curriculum Vitae

1. **Name:** Dr. Fakir Chand

2. **Designation:** Professor

3. **Name of the Department:** Physics

4. **Academic Details:** M.Sc.(Physics), Ph.D.

5. **Contact Details**: **Official Address:** Department of Physics, Kurukshetra University, Kurukshetra-136119, Haryana
   Email: fchand@kuk.ac.in
   Mobile: 9466481420; 9306830130

6. **Information about Published research work:** (See Annexure-1**)**

7. **Total Teaching Experience:** ~28 years (Post Graduate)

8. **Administrative Experience**
   i. Chairperson, Department of Physics, IG University, Meerpur, Rewari from 13-07-2015 to 24-08-2015.
   ii. Administrator University Health Centre, KU, Kurukshetra from March 20, 2021 to July 25, 2022.
   iii. Chairperson, Department of Physics, KU, Kurukshetra from 18-10-2021 to 17-10-2024.
   iv. Director, Centre for Dr. B.R. Ambedkar Studies, KU, Kurukshetra from 28-07-2022 to 09-02-2023.

9. **Awards/Honour Received**
   i. Certificate of honor received on 07-01-2023 from Kurukshetra University, Kurukshetra in recognition for academic achievements and contribution during the last five years (2017-2022).

10. **Research Projects**
    Co-investigator of a 10 crore research project given to KU Kurukshetra by ANRF, New Delhi under PAIR scheme

11. No**. of students supervised/supervising**:

Name of Degree	Completed	Ongoing
Ph.D.	12	2
M.Phil.	4	-
M.Sc. Projects	4	-

12. Number of Conferences/Symposia attended

1. "DAE-Solid State Physics Symposium-98" held in the Department of Physics, Kurukshetra University, **Kurukshetra** from December 27-31, 1998.
2. "DAE-Solid State Physics Symposium-99" held at IGCAR, **Kalpakkam**, Tamilnadu from December 20-24, 1999.
3. "International conference on nonlinear phenomenon" held in the Department of Mathematics, Indian Institute of Science (IISc.), **Bangalore** from January 5-10, 2004.
4. "National conference on materials and their applications" (NCMA-2004) held in the Department of Physics, Kurukshetra University, **Kurukshetra** from March 11-13, 2004.
5. 22^{nd} international conference on statistical physics (STATPHYS-22) held at Indian Institute of Science (IISc), **Bangalore** from July 5-9, 2004.
6. "2^{nd} national conference on nonlinear systems and dynamics (NCNSD-05)" held at Aligarh Muslim University, **Aligarh** from February 24-26, 2005.
7. "National conference on recent advances in material science (RAMS-2006)" held in the Department of Physics, Kurukshetra University, **Kurukshetra** from September 27-29, 2006.
8. "4^{th} national conference on nonlinear systems and dynamics (NCNSD-08)" held at Physical Research Laboratory (PRL), **Ahmadabad**, from January 3-5, 2008.
9. "International conference on nonlinear dynamical systems and Turbulence" held in the Department of Mathematics, Indian Institute of Science (IISc), **Bangalore** from July, 17-22, 2008.
10. "International Conference on Non-Hermitian Hamiltonians in Quantum Mechanics" held at Bhabha Atomic Research Centre (BARC), **Mumbai** from January 13-16, 2009.
11. "DAE-BRNS National Symposium on Thermal Analysis, THERMANS-2010, held in the Department of Physics, Kurukshetra University, **Kurukshetra**, from March 9-11, 2010.
12. "Perspectives in Nonlinear Dynamics" held at IISc**. Bangalore,** from July 26-29, 2010.
13. "State level conference on the role of basic sciences in the development of science and technology" held at Kurukshetra University, **Kurukshetra**, from February 9-10, 2011.
14. "DAE Symposium on Nuclear Physics" held at the Department of Physics and Astrophysics, Delhi University, Delhi from December 3-7, 2012.
15. "National Conference on Physics of Engineering Materials held at the Physics Department, Deenbandhu Chhotu Ram University of Science and Technology, **Murthal** from March 15-17, 2013.
16. "National Conference on Emerging Challenges in Nuclear and Many-body Physics (ECNMP-2014)" held at the Department of Physics, University of Jammu, **Jammu** during Nov. 10-11, 2014.
17. "National Conference on Emerging trends in Physics and Material Science (ETPMS-2015) held at the Department of Physics, CDLU, Sirsa from March 9-10, 2015."

18. "National Seminar on Recent Developments in Theoretical and Experimental Physics" held at Department of Applied Physics, S D College, Ambala Cantt. On March 21, 2015.
19. "National Conference on Physics Industry Interface" held in the Department of Physics, Kurukshetra University, **Kurukshetra** from September 02-04, 2015.
20. "National Conference in Current Advances in Theoretical and Experimental Physics" held at Department of Applied Physics, S D College, Ambala Cantt. On November 07, 2015.
21. "National Conference on Physics of Engineering Materials" held at Physics Department, Deenbandhu Chhotu Ram University of Science and Technology, **Murthal** from March 10-11, 2016.
22. "National Conference on Emerging trends in Physics and Material Science (ETPMS-2016) held at the Department of Physics, CDLU, Sirsa from March 19-20, 2016."
23. 10^{th} conference on nonlinear systems and dynamics organized by the Indian Institute of Science Education and Research (IISER), Kolkata from December 16-18, 2016.
24. National conference on recent trends in theoretical and experimental physics held at central university, Jammu on April 17-18, 2018.
25. National conference on "Recent Advances in Condensed matter Physics" organized by the Department of Physics, KU Kurukshetra, from October 12-13, 2018.
26. One-day seminar on "Draft National Education Policy, 2019" organized by Faculty Development Centre, KU, Kurukshetra on July 24, 2019.
27. "65^{th} DAE-BRNS Symposium on Nuclear Physics 2021" held on-line at DAE convention centre, Anushaktinagar, Mumbai from December 1-5, 2021.
28. "National Conference on Nanophotonics and Material Science (NCPMS-2024)" held in the Department of Physics, GJUS&T, Hisar during March 14-15, 2024.
29. "International Conference on Emerging Materials and Quantum Photonics (ICEMQP-2024)" held in the Department of Physics, GJUS&T, Hisar during November 7-9, 2024.

13. No. of Workshops/Schools/Orientation Courses attended

1. One-week orientation program at Nuclear Science Centre, **New Delhi** from October 8-13, 2001.
2. Workshop on "Computer Hardware and Maintenance" organized by Institute of Instrumentation Engineering (USIC), Kurukshetra University, **Kurukshetra** from October 12-14, 2006.
3. Awareness workshop on "The facilities of UGC-DAE consortium for scientific research" held at Kurukshetra University, **Kurukshetra** from December 4-5, 2006.
4. Workshop on "Dynamical System" held in the Department of Mathematics, Indian Institute of Science (IISc), **Bangalore** from October 21 to November 3, 2007.

5. Workshop on "Nuclear and Radiochemistry" held in the Department of Physics, Kurukshetra University, **Kurukshetra** from November 29 to December 8, 2007.
6. Workshop on "Patent Awareness" organized by University Institute of Engineering and Technology (UIET), Kurukshetra University, **Kurukshetra** on April 05, 2008.
7. "DST-PSSI interaction meeting on popularizing Plasma Science, and Technology and its application in Indian Academic Organizations by The Plasma Science Society of India (PSSI)", Institute of Plasma Research (IPR), **Gandhinagar**, from April 10-11, 2008.
8. "Winter School on Experimental Nonlinear Dynamics (WINEXPNLD 2008)" held at Saha Institute of Nuclear Physics (SINP), **Kolkata** from December 1-5, 2008.
9. "Orientation course on Non-Hermitian Hamiltonians in Quantum Mechanics" held at Bhabha Atomic Research Centre (BARC), **Mumbai,** on January 12, 2009.
10. "SERC School on Nonlinear Dynamics" held in the Department of Physics & Astrophysics, University of Delhi, **Delhi** from December 16- 24, 2009.
11. "DAE-BRNS National Workshop on Thermal Analysis, 2010, held in the Department of Physics, Kurukshetra University, **Kurukshetra**, from March 12-13, 2010.
12. "19th IEEE workshop on Nonlinear Dynamics in Electronics System held at Saha Institute of Nuclear Physics (SINP), Kolkata from March 8-11, 2011.
13. Workshop on "Advanced characterization and simulation techniques" held in the Department of Physics, Kurukshetra University, Kurukshetra from March 12-17, 2012.
14. 84th BRNS-IANCAS National workshop on Radiochemistry and Applications of Radioisotopes organized by Department of Physics, KU, Kurukshetra and Indian association of Nuclear Chemists and Allied Scientists (IANCAS) during October 23-27, 2013.
15. National Workshop on Ion Beam Induced Growth and Engineering of Materials organized by Department of Physics, KU, Kurukshetra during March 11-12, 2014.
16. 2nd National Workshop on Ion Beam Induced Growth and Engineering of Materials organized by Department of Physics, KU, Kurukshetra during March 04-05, 2016.
17. One-day workshop on Intellectual Property Rights organized by the IPR Cell, Kurukshetra University, Kurukshetra on December 21, 2016.
18. One-day awareness workshop on Intellectual Property Rights organized by the IPR Cell, Kurukshetra University, Kurukshetra on January 19, 2019.

14. Member/Coordinator for organizing various academic events/activities

(i) Member of the Organizing committee of the "DAE-Solid State Physics Symposium-98" held in the Department of Physics, Kurukshetra University, **Kurukshetra** from December 27-31, 1998.

(ii) Member of the Organizing committee of the "National conference on materials and their applications" (NCMA-2004) held in the Department of Physics, Kurukshetra University, **Kurukshetra** from March 11-13, 2004.

(iii) Member of the Organizing committee of the "National conference on recent advances in material science (RAMS-2006)" held in the Department of Physics, Kurukshetra University, **Kurukshetra** from September 27-29, 2006.

(iv) Member of the Organizing committee of an awareness workshop on "The facilities of UGC-DAE consortium for scientific research" held at Kurukshetra University, **Kurukshetra** from December 4-5, 2006.

(v) Member of the Organizing committee of a workshop on "Nuclear and Radiochemistry" held in the Department of Physics, Kurukshetra University, **Kurukshetra** from Nov. 29 to Dec. 8, 2007.

(vi) Member of the Organizing committee of the "DAE-BRNS National Workshop on Thermal analysis, 2010, held in the Department of Physics, Kurukshetra University, **Kurukshetra**, from March 12-13, 2010.

(vii) Member of the Organizing committee of the state level conference on the "Role of basic sciences in the development of science and technology" held at K U Kurukshetra from February 9-10, 2011.

(viii) Member of the organizing committee of a one-week workshop "Advanced characterization and simulation" held in the Physics Department, K.U. Kurukshetra from March 12-17, 2012.

(ix) Worked as secretary Teacher's Club, K.U. Kurukshetra

(x) Worked as Vice-president Teacher's Club, K.U. Kurukshetra

(xi) Worked as Teacher Editor, science section, in 'Kalanidhi', a literary magazine of K.U. Kurukshetra, for six years from 2002-2008.

(xii) Coordinator of Refresher Course in Physics on the theme "Recent Advances in Physics" organized by Academic Staff College & Dept. of Physics, K U Kurukshetra from May 02, 2013 to May 22, 2013.

(xiii) Teacher editor Science section of Kalanidhi magazine of K U Kurukshetra for the session 2013-14.

(xiv) Member organizing committee of the "84^{th} BRNS-IANCAS National workshop on Radiochemistry and Applications of Radioisotopes" organized by Department of Physics, KU, Kurukshetra and Indian association of Nuclear Chemists and Allied Scientists (IANCAS) during October 23-27, 2013.

(xv) Convener of the symposium on "Recent Research Trends in Physics" jointly organized by the Department of Physics, KU Kurukshetra and Department of Physical Sciences, IISER, Mohali during March 01-02, 2014.

(xvi) Member organizing committee of the "National Workshop on Ion Beam Induced Growth and Engineering of Materials" organized by Department of Physics, KU, Kurukshetra during March 11-12, 2014.

(xvii) Chairman, Department of Physics, Indira Gandhi University, Meerpur, Rewari from 13-07-2015 to 24-08-2015.

(xviii) Member organizing committee of the "National Conference on Physics Industry Interface" organized by Department of Physics, KU, Kurukshetra during September 02-04, 2015.

(xix) Member organizing committee of the "2nd National Workshop on Ion Beam Induced Growth and Engineering of Materials" organized by Department of Physics, KU, Kurukshetra during March 04-05, 2016.

(xx) Member of the Organizing committee of one day NSM Workshop on High Performance Computing held at K U Kurukshetra on May 04, 2018.

(xxi) Member of the Organizing committee of two-day national conference on "Recent Advances in Condensed matter Physics" organized by the Department of Physics, KU Kurukshetra, from October 12-13, 2018.

(xxii) External expert in M.Sc. Physics syllabus revision workshop organized by the Physics Department, JC Bose University of Science and Technology, Faridabad on May 14,2021.

(xxiii) External expert of academic and administrative audit committee of Physics Department, CDLU, Sirsa, December 10, 2021.

(xxiv) External expert of academic and administrative audit committee of Physics Department, CBLU, Bhiwani, December 27, 2021.

(xxv) Co-coordinator of the online lecture workshop on the topic "Recent advances in material science for sustainable development in energy applications" jointly organized by Department of physics KU Kurukshetra and Department of chemistry, IGU, Meerpur, Rewari from February 18-28, 2022.

(xxvi) Member of the Organizing committee of science conclave on "Amazing world of Science and Technology" organized by the KU Kurukshetra, from February 04-05, 2025.

15. Details of Membership of Executive Council/Academic Council/Court/ Board of Studies/Sports Councils/Central Purchase Committee etc. of Various University/Institutions

16.

Sr. No.	Name of the University/Institute	Membership	Duration
1.	Kurukshetra University, Kurukshetra, Haryana	Member Court	2007-2009

2.	Ch. Devi Lal University, Sirsa, Haryana	Member Court as Chancellor's Nominee	28-03-2017 to 27-03-2020.
3.	Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Haryana	Member Executive Council as Chancellor's Nominee *Two times*	13-02-2019 to 12-02-2021 and 08-04-2021 to 07-04-2023
4.	Indira Gandhi University, Meerpur, Rewari, Haryana	Member Academic Council	07-07-2015 to 24-08-2015
5.	Kurukshetra University, Kurukshetra, Haryana	Member Academic Council	20-10-2018 to 19-10-2020
6.	Ch. Devi Lal University, Sirsa, Haryana	Member PG Board of Studies	12-05-2017 to 11-05-2019
7.	Ch. Bansi Lal University, Bhiwani, Haryana	Member PG Board of Studies	02-06-2017 to 01-06-2020
8.	Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab,	Member PG Board of Studies	18-10-2018 to 17-10-2020
9.	Ch. Devi Lal University, Sirsa, Haryana	Member UG Board of Studies	19-11-2019 to 18-11-2021
10.	Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Sonipat	Member PG Board of Studies	25-02-2020 to 24-02-2022
11.	Kurukshetra University, Kurukshetra, Haryana	Member Central Purchase Committee	FY 2020-2021
12.	Kurukshetra University, Kurukshetra, Haryana	Member Sports Council (KUSC)	Session 2020-2021
13.	Kurukshetra University, Kurukshetra, Haryana	Member Executive Board (KUSC)	Session 2020-2021
14.	Ch. Ranvir Singh University, Jind, Haryana	Member UG Board of Studies	02-03-2021 to 01-03-2023
15.	Kurukshetra University, Kurukshetra, Haryana	Member Central Purchase Committee	FY 2021-2022
16.	Ch. Ranvir Singh University, Jind, Haryana	Member Research Advisory Committee	13-07-2021
17.	Ch. Bansi Lal University, Bhiwani,	Member UG Board	16-08-2021

	Haryana	of Studies	to 15-08-2023
18.	Kurukshetra University, Kurukshetra, Haryana	Member Academic Council	18-10-2021 to 17-10-2024
19.	Ch. Ranvir Singh University, Jind, Haryana	Member Research Advisory Committee	25-01-2022
20.	Department of Science and Technology, New Delhi	Member PMRF review committee	28-06-2022
21.	Dr. BR Ambedkar National Institute of Technology, Jalandhar	Member Research Advisory Committee	20-10-2022
22.	Kurukshetra Panorama and Science Centre, Kurukshetra	Member Local Advisory committee	28-03-2023 to 27-03-2025
23.	Arya Kanya Mahavidyalaya, Shahabad	External member IQAC	27-09-23 to 26-09-25
24.	NIILM University, Kaithal	Member PG Board of Studies	Academic session 2023-24
25.	Arya Kanya Mahavidyalaya, Shahabad	External member Academic and Administrative Audit	27-02-24
26.	Central University of Haryana, Mahendergarh	Member Board of Studies	24-04-2025-23-04-2028
27.	Ch. Ranvir Singh University, Jind, Haryana	Member UG Board of Studies	13-06-2025 to 12-06-2027
28.	Kurukshetra Panorama and Science Centre, Kurukshetra	Member Local Advisory committee	19-06-2025 to 18-06-2027
29.	Netaji Subhas University of Technology (NSUT), New Delhi	Member Board of Research Studies	Session 2025-26

17. Details of Invited Talks in Conferences/Seminars/workshops/FTP etc.

(i) "Dynamical Invariants: Theory and Applications" invited talk delivered at the "National Seminar on Recent Developments in Theoretical and Experimental Physics" held at the Department of Applied Physics, S D College, Ambala Cantt. On March 21, 2015.

(ii) "Analytic Solutions to the Schrodinger wave Equation" invited talk delivered in the "National Conference on Current Advances in Theoretical and Experimental Physics" held at the Department of Applied Physics, S D College, Ambala Cantt. On November 07, 2015.

(iii) "Role and Scope of Invariants for Classical and Quantum Dynamical Systems" invited talk delivered in the "National Conference on Physics of Engineering Materials held at Physics Department, Deenbandhu Chhotu

Ram University of Science and Technology, **Murthal** from March 10-11, 2016.

(iv) "Analytical solutions to the Schrodinger equation for some bounded systems" invited talk delivered in the "National Conference on Recent Trends in Theoretical and Experimental Physics held at Physics Department, Central University, Jammu from April 17-18, 2018.

(v) "Chaos Theory: an introduction", talk delivered in 73rd Refresher course in physics organized by UGC-HRDC, Punjabi University, Patiala on December 05, 2019.

(vi) "Introduction to Chaos and its ramifications in different fields of Science" invited talk delivered in a webinar organized by the department of physics, Pacific University, Udaipur, Rajasthan on July 13, 2020.

(vii) "Analytic Solutions to the Schrodinger Equation: Techniques and Applications", talk delivered in the Faculty Training Program(FTP) organized by the Physics Department, DCRUST, Murthal from June 07-12, 2021.

(viii) "Potentiostat: An Electronic Instrument", talk delivered in the Online certificate course on skill development in Electrochemistry organized by the Physics & Chemistry Departments, KU, Kurukshetra on July 11, 2021.

(ix) "An introduction to MOSFETs and their applications", talk delivered in the Online certificate course on skill development in Electrochemistry organized by the Physics & Chemistry Departments, KU, Kurukshetra on July 11, 2021.

(x) "To whom we call an educated person", talk delivered in regional science congress for the students of Jaipur region organized by JNV, Niwarsi, Kurukshetra from Feb. 02-05, 2022.

(xi) "An Introduction to Classical Chaos", talk delivered Refresher course in physics organized by UGC-HRDC, Punjabi University, Patiala on October 28, 2022.

(xii) "Job opportunities for 10+2 science students", talk delivered in JNV, Niwarsi, Kurukshetra under Vigyan Jyoti Program on Aug. 03, 2023.

(xiii) "The importance of being Curious", talk delivered in JNV, Sagga, Karnal under Vigyan Jyoti Program on Aug. 14, 2023.

(xiv) "Glimpses of solar cells", talk delivered in JNV, Titram, Kaithal under Vigyan Jyoti Program on December 22, 2023.

(xv) "Indigenous technology for Viksit Bharat" a talk given in Kurukshetra Panorama and Science centre, on the occasion of National Science day, 28-02-2024.

(xvi) "Stability and performance enhancement of Perovskite solar cells" invited talk delivered in the "National Conference on Nanophotonics and Material Science (NCPMS-2024)" held in the Department of Physics, GJUS&T, Hisar during March 14-15, 2024.

(xvii) "Dr. C.V. Raman and his discovery" a talk given in CRSU, Jind on the occasion of National Science day, 28-02-2025.

18. Details of Technical Sessions Chaired in National/International conferences

(i) Technical session chaired in the National Conference on Physics of Engineering Materials held at Physics Department, Deenbandhu Chhotu Ram University of Science and Technology, Murthal on March 15-17, 2013.

(ii) Technical session chaired in the "National Conference on Emerging Trends in Physics and Material Science (ETPMS-2015) held at Department of Physics, CDLU, Sirsa on March 9-10, 2015."

(iii) Technical session chaired in the "National Conference on Physics of Engineering Materials held at Physics Department, Deenbandhu Chhotu Ram University of Science and Technology, **Murthal** on March 10-11, 2016.

(iv) Technical session chaired in the "National Conference on Emerging Trends in Physics and Material Science (ETPMS-2016)" held at Department of Physics, CDLU, Sirsa on March 19-20, 2016.

(v) Technical session chaired in the "International Conference on Advances in Science and Technology in the 21st Century (ICAST)" held at Markanda National College Shahabad on February 26-27, 2022.

(vi) Technical session chaired in the "International Conference on Frontiers in Physics, Materials Science and Nanotechnology (FPMSN-2022)" held at the Department of Physics, Ch. Devi Lal University, Sirsa on February 25-26, 2022.

(vii) Technical session chaired in the "National Conference on Nanophotonics and Material Science (NCPMS-2024)" held in the Department of Physics, GJUS&T, Hisar during March 14-15, 2024.

(viii) Technical session chaired in the "International Conference on Emerging Materials and Quantum Photonics (ICEMQP-2024)" held in the Department of Physics, GJUS&T, Hisar during November 07-09, 2024.

(ix) Technical sessions chaired in the "International Conference on Emerging Materials and Quantum Photonics (ICEMQP-2024)" held in the Department of Physics, GJUS&T, Hisar during November 7-9, 2024.

19. Details of extension lectures delivered

(i) Extension lecture delivered on basics of OPAMPs to the students of M.Sc. Physics in DAV College, Ambala City on March 12, 2016.

(ii) Extension lecture delivered on OPAMP: Theory and Application to the students of B.Tech. in JMIT, Radore on April 30, 2016.

(iii) Extension lecture delivered on basics of FET/MOSFETs to the students of M.Sc. Physics in DAV College, Ambala City on March 25, 2017.

(iv) Extension lecture delivered on Life and Works of Sir CV Raman on the occasion of National Science Day in the Department of Physics, CDLU, Sirsa on February 28, 2019.

(v) Extension lecture delivered on job opportunities for physics students, Government PG College, Hisar on February 07, 2020.

(vi) Extension lecture delivered on introduction to OPAMPs and their application, Hindu Girls College, Sonipat on February 20, 2020.

(vii) Extension lecture delivered on introduction to BJT amplifiers, Ch. Ranvir Singh University, Jind March 16-19, 2021.

(viii) Extension lecture delivered on introduction to Integrated Circuit Fabrication, Physics Department, BPSU, Khanpur, November 19, 2024.

Annexure-1

RESEARCH PAPERS PUBLISHED IN JOURNALS

1. "Electrical and optical nonlinearity in vacuum deposited thin films of poly [N-(benzoylphenyl)-2 methylacrylamide", Neeraj Kalra, **Fakir Chand**, S.C. Mishra, D.R.Vij, D.K.Chaturvedi, Sushil Kumar, Sanjiv Arora and S.C.K. Misra, J. Non-Linear Optical Physics & Materials**, 13**, 1-15 (2004).
2. "Construction of exact dynamical invariants of two-dimensional classical systems", S.C. Mishra and **Fakir Chand**, Pramana-J. Phys., **66**, 601-607 (2006).
3. "Construction of exact complex dynamical invariants of a two-dimensional classical system", **Fakir Chand** and S.C. Mishra, Pramana- J. Phys., **67**, 999-1009 (2006).
4. "Exact solution to three-dimensional time-dependent Schrödinger equation", Fakir **Chand** and S.C. Mishra, Pramana-J. Phys., **68**, 891-900 (2007).
5. "The solution of the Schrödinger equation for complex Hamiltonian systems in two dimensions", **Fakir Chand**, Ram Mehar Singh, Narender Kumar and S.C. Mishra, J. Phys. A: Math & Theor., **40**, 10171-10182 (2007).
6. "The solution of the Schrödinger Equation for two dimensional complex quartic potentials" Ram Mehar Singh, **Fakir Chand** and S.C. Mishra, Commun. Theor. Phys., 51, 397-406 (2009).
7. "The solution of the Schrödinger Equation for coupled quadratic and quartic potentials in two dimensions" Ram Mehar Singh, **Fakir Chand,** and S.C. Mishra. Pramana-J. Phys., **72**, 647-654 (2009).
8. "Solution of an analogous Schrödinger equation for PT-symmetric sextic potential in two dimensions" **Fakir Chand**, S.C. Mishra and Ram Mehar Singh, Pramana-J. Phys., **73**, 349-361 (2009).
9. "Exact fourth-order invariants of time-independent classical and quantum systems in three dimensions", **Fakir Chand**, Can. J. Phys., **88,** 165-174, (2010).

10. "Exact traveling wave solutions of some nonlinear evolution equations by G`\G-expansion method", Anand Malik, **Fakir Chand,** and S.C. Mishra, Appl. Math. & Comp. **216**, 2596-2612, (2010).
11. "Eigenvalue spectra of a PT-symmetric coupled quartic potential in two dimensions" **Fakir Chand**, Savita, and S.C. Mishra, Pramana-J. Phys. **75**, 599-605, 2010.
12. "Quasi-exact solutions of Schrodinger equation for sextic potentials in two dimensions" Ram Mehar Singh, Fakir **Chand,** and S.C. Mishra, Atti Della "Fondazione Giorgio Ronchi", **LXV**, no. 6, 795-802, 2010.
13. "The solution of the Schrodinger equation for two dimensional PT-symmetric coupled quartic potentials by the ansatz for eigenfunction method" Savita, Fakir **Chand** and S.C. Mishra, Atti Della "Fondazione Giorgio Ronchi", **LXV**, no. 6, 811-816, 2010.
14. "Solutions of the Schrodinger equation for PT-symmetric coupled quintic potentials in two Dimensions" Savita and **Fakir Chand**, Commun. Theor. Phys. **56**, 419-422, 2011.
15. "Searching critical point nuclei in Te- and Xe-isotopic chains using sextic oscillator potential" Savita Kharb and **Fakir Chand,** Phys. At. Nucl. **75**, 168-172, 2012.
16. "Complex Dynamical Invariants for two dimensional Non-hermitian Hamiltonian Systems", J.S. Virdi, **Fakir Chand,** C.N. Kumar, and S C Mishra, Can. J. Phys. **90**, 151-157, 2012.
17. "Exact solutions of some physical models using G`/G-expansion method" Anand K Malik, **Fakir Chand,** Hitender Kumar, and S C Mishra, Pramana-J. Phys. **78**, 513-529, 2012.
18. "Exact solutions of reaction-diffusion equations", Anand Malik, **Fakir Chand,** Hitender Kumar, and S C Mishra, Ind. J. Phys. **86**, 129-136, 2012.
19. "Series Solutions of the N-dimensional Schrodinger equation for the quark-antiquark interaction potential", Ramesh Kumar and **Fakir Chand**, Phys. Scr., **85**, 055008, 2012.
20. "Energy spectra of the Coulomb perturbed potential in N-dimensional Hilbert space", Ramesh Kumar and **Fakir Chand,** Chin. Phys. Lett., **29,** 060306, 2012.
21. "Reply to the Comment on Series Solutions of the N-dimensional Schrodinger equation for the quark-antiquark interaction potential", Ramesh Kumar and **Fakir Chand**, Phys. Scr., **86**, 027002, 2012.
22. "Complex Dynamical Invariants for two-dimensional Complex Potentials", J. S. Virdi, F. Chand, C.N. Kumar, and S.C. Mishra, Pramana-J. Phys., **79(2)**, 173-183, 2012.
23. "Exact solutions of nonlinear diffusion-reaction systems with quadratic, cubic and quartic nonlinearities" H. Kumar, A. Malik, **Fakir Chand,** and S.C. Mishra, Indian J. Phys., **86(9)**, 819-827, 2012.
24. "Analytical Spatiotemporal Soliton Solutions in (3+1)-dimensional Cubic-Quintic Nonlinear Schrodinger Equation with Distributed Coefficients", Hitender Kumar, Anand Malik, and **Fakir Chand**, J. Math. Phys., **53**, 103704, 2012.
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