

PERSONAL PROFILE



Name: **Dr. JATINDER PAL SINGH**
Profession: **TEACHING**
Institution/Affiliation: **POST-GRADUATE GOVERNMENT COLLEGE SECTOR-11, CHANDIGARH**
Designation: **ASSOCIATE PROFESSOR OF PHYSICS**
Postal address: **2179, PHASE-10, MOHALI**
City/Town: State/Province: **PUNJAB, INDIA**
Country: Postal code: **160062**
E-mail: 1) **jatinderpal897@gmail.com**
2) **jatinder_pal2179@yahoo.co.in**
3) **jpsingh@gc11.ac.in**

OFFICIAL DUTIES ASSIGNED

- **H O D of DEPT OF professional Studies (IT) from Nov 2016 to 24th Oct 2019**
- **Registrar Examination for two years**
- **Coordinator RUSA**
- **Member UGC committee**
- **Head examiner for Panjab University examination**
- **Coordinator CBCS system**
- **Head of EDP cell**

- Member board of governors RUSA at Pggc-11, Chandigarh
- Convener admissions science, BCA. MSC(IT)
- Member organizing committee annual convocation
- Member Senate Punjabi University Patiala from 2000-2002
- Member Senate Panjab University Chandigarh from 2015-17
- Chief coordinator for Nielets paper checking
- Chairperson for Technical Specification in the Purchase of items for Govt college sector-50 Chandigarh
- Member purchase committee for purchase of laptops (e-sanatak) by director higher education Chandigarh
- Coordinator for Faculty development Programme
- Nodal officer skill development Programme under PMKVY
- Sector officer for General Elections 2019
- Convener write-off committee for e-waste
- Convener admission M.Sc Physics, M.Sc (IT)
- Member College Council Pggc-11, Chandigarh
- HOD Physics Department from 5th Feb. 2020

Areas of Research Interest:

- Ultrasonic studies
- Nuclear Physics
- Metaphysics
- Nano-Materials
- Study of materials

Publications:

- a) **“Variation of Wada Constant, Raos Constant and Acoustic Impedance of Aqueous Cholesteryl Oleyl Carbonate with Temperature** Jatinder pal singh , Rajesh Sharma

published in International Journal of Engineering Research and Development e-ISSN: 2278-067X, p-ISSN: 2278-800X, www.ijerd.com Volume 5, Issue 11 (February 2013), PP. 48-51

Impact factor 4.61

- b) **“Acoustic Parameters of Cholesteryl oleyl carbonate at various temperatures** Jatinder pal singh, Rajesh Sharma published in INTERNATIONAL JOURNAL OF MULTIDISPLINARY RESEARCH IJPSS Volume 3, Issue 4 ISSN: 2249-5894.
- c) **“SPORTS AND PHYSICS** Jatinder pal singh JOURNAL OF PHYSICAL EDUCATION and allied sciences in volume 2 No.1 july,2012 ISSN:22307397
- d) **Surface Tension Variation with Acoustic Parameters of Cholesteryl oleyl carbonate** Jatinder pal singh, rajesh Sharma in International journal of Applied research and studies iJARS/ Vol. II/ Issue 3/Mar, 2013/384 ISSN: 2278-9480
- d) **“PHYSICS, CONSCIOUSNESS AND HEALTH IN RELATION WITH AURA ENERGY FIELD”** Jatinder pal singh published in International Journal of Engineering Research and Development VOLUME 6,ISSUE 11 (APRIL 2013),PP.84-87 e-ISSN: 2278-067X, p-ISSN: 2278-800X **Impact factor 4.61**
- e) **Viscosity variation of Cholesteryl oleyl carbonate at various temperature with Acoustic parameters** Jatinder pal singh, Rajesh Sharma *IOSR Journal of Applied Physics (IOSR-JAP) e-ISSN: 2278-4861. Volume 3, Issue 5 (Mar. - Apr. 2013), PP 88-91*
Impact factor 3.15
- g) **Physics Laws and Analysis of the Soccer ball** Jatinder pal singh IN INTERNATIONAL JOURNAL IN IT AND ENGINEERING VOL.01 USSUE-01, (MAY, 2013) ISSN: 2321-1776
- h) **PHYSICS LEARNING AND COMPUTER APPROACHES** Jatinder pal singh IN INTERNATIONAL JOURNAL OF PHYSICAL AND SOCIAL SCIENCES VOLUME 3, ISSUE 10, (OCTOBER 2013) ISSN: 2249-5894

- i) **ENTROPY AND ENTHALPY VARIATIONS WITH ACOUSTIC PARAMETERS OF OLEYL CARBONATE** Jatinder pal singh, Rajesh sharma IN AMERICAN JOURNAL OF ENGINEERING RESEARCH (NOVEMBER 2013) e-ISSN 2320-0847,P-ISSN: 2320-0936
- j) **GIBBS FREE ENERGY, ABSORPTION COEFFICIENT, ACOUSTIC RELAXATION TIME, INTERNAL PRESSURE OF CHOLESTERYL OLEYL CARBONATE** Jatinder pal singh, Rajesh Sharma in IJESR International Journal of Engineering & Scientific Research <http://www.ijmra.us> Volume 1,Issue 2 December 2013 ISSN:2347-6532
- k) **“ANALYTICAL STUDY OF BULK PROPERTIES OF MOLECULAR SUSPENSIONS IN LIQUIDS AND NANOFLUIDS UNDER THE INFLUENCE OF ULTRASONIC WAVES”** poster presentation given at CHASCON-2013 (Chandigarh science congress).
- l) **“REVIEW OF ACOUSTIC PROPERTIES OF LIQUIDS, GASES, CERAMICS AND CRYSTALS UNDER THE INFLUENCE OF ULTRASONIC WAVES”** Jatinder pal singh poster presentation given at CHASCON-2014 (Chandigarh science congress).
- m) **“A COMPARISON OF NUCLEAR CAPABILITY OF INDIA WITH CHINA AND THE FUTURE OF CHINA'S NUCLEAR MODERNIZATION”** Jatinder pal singh paper presented at PGGC-11 CHANDIGARH.
- n) **“Review of ultrasonic testing”** Jatinder pal singh published in INTERNATIONAL JOURNAL OF MANAGEMENT & SOCIAL SCIENCE (IJMSS) (On-line ISSN 2321-1784) (March 2014)
- o) **Variation of acoustic impedance of metals in solid form with ultrasonic velocity** Jatinder pal singh, Afro Asian J SciTech,2014,1(1), 46-52 © 2014. The Authors. Published under Afro Asian Journal of Science and Technology.

p) REVIEW OF GREEN NANO-TECHNOLOGY: OPPORTUNITIES AND

CHALLENGES Jatinder pal singh, Rajesh Sharma Paper presented at Chascon 2015 Panjab University Chandigarh on 26th feb 2015.

q) PHYSICS OF AGGRESSION COMPARISON AMONG KHO-KHO PLAYERS AT

NATIONAL LEVEL: A SCIENTIFIC CO-RELATION Rajinder Singh koura, Jatinder Pal Singh paper presented at International Science Congress at maharaja Aggarsen University Baddi (H.P) from May 1 to May2nd ,2015.

r) “ APPLICATIONS OF NANOTECHNOLOGY IN MEDICINE: AN OVERVIEW”

Jatinder pal singh¹, Rajesh Sharma² paper presented at at International Science Congress at maharaja Aggarsen University Baddi (H.P) from May 1to May2nd ,2015.

s) A Brief discussion on Nano-fluids Jatinder pal singh¹, Rajesh Sharma² paper presented at at

International Science Congress at maharaja Aggarsen University Baddi (H.P) from 1st May to 2nd May ,2015

t) “ANXIETY LEVEL OF KHO-KHO PLAYERS AT NATIONAL LEVEL: A

SCIENTIFIC VIEW Rajinder Singh Koura, Jatinder pal Singh **American Journal of**

Engineering Research (AJER) e-ISSN: 2320-0847 p-ISSN : 2320-0936 Volume-4, Issue-8, pp-89-92 www.ajer.org *American Journal of Engineering Research (AJER) 2015*

u) “ Factors that influences human behaviour at workplace : an overview” Sopaan-2 volume 1, issue 1, jan-june 2016.

v) Paper on “ROLE OF ULTRASONICS IN NANO TECHNOLOGY: AN OVERVIEW”

presented in International conference at Rayat and Bahra University Mohali (ICAST) on 20-21st April 2017 published by Macgraw Hill

x) Presented paper titled “Quantum cryptography and security analysis” in

International conference on Networks and Cryptography (NetCrypt)-2019
Organized by School of Computer and Systems Sciences, Jawaharlal Nehru
University, New Delhi on 14-16 June, 2019.

[Articles published online](#)

Amazines.com -

1. Speculative metaphysics & new age religion
2. Sports Science

Article base.com -

1. Major global Environmental Issues
2. Protect your mother earth

Oppapers.com-

Physics Phenomenon in sports

3) **Books:**

1. “Conscious Control of human energy field (eBook)

Aura

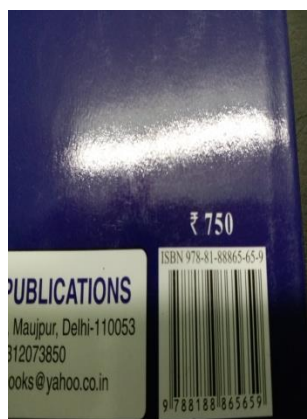
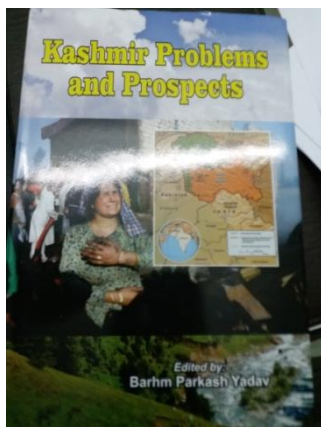
**Conscious Control
of human energy
field**



Jatinder pal singh
M.Sc, M.Phil (gold medalist)

by [Jatinder Pal Singh](#) Pothi.com.

2.



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A Comparison of Nuclear Capability of India with China and the Future of China's Nuclear Modernization —Jatinder Pal Singh	89
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Published one chapter in book compiled by Dr. B.P Yadav on “**Kashmir problem and its perspective**” in May , 2015.

3. Measurement of Human Biofield Energetic Instruments (eBook)

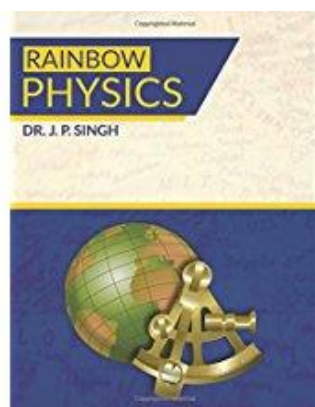
Measurement of Human Biofield and other Energetic Instruments

Author

Jatinder Pal Singh
M.Sc., M.Phil., and Ph.D. holder
Academic: Professor physics
Place: U.S.A. (New York)
e-mail:
jatinderpal997@gmail.com

by [Jatinder Pal Singh](#)

4. “Rainbow Physics” book for 12th class published in October 2017 with ISBN NO: 978-1-5457-0810-1 BY EDUCREATION PUBLISHERS New Delhi



Academic Qualifications:

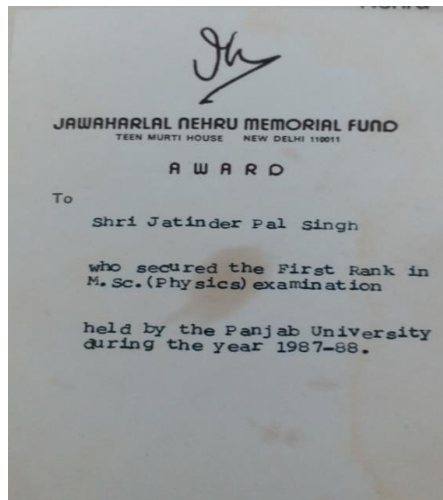
Exam Passed	Board/University	School/College	Year
PhD (physics)	Himalayan University Arunachal Pradesh	DEPARTMENT OF PHYSICS	2016
M.phil(physics)	P.U CHANDIGARH	DEPARTMENT OF PHYSICS	1989-90
M.Sc.(App. Physics)	P.U CHANDIGARH.	DEPARTMENT OF PHYSICS	1988
B.Sc	H.P.U SHIMLA	G.C-CHAMBA	1986
12 th (PCM)	H.P BOARD SHIMLA	G.C-MANDI	1984
10 th	H.P BOARD SHIMLA	G.C-MANDI	1982

Professional qualification:

- PhD in Physics from Himalayan University Arunachal Pradesh in 2016
- Master of philosophy (Physics) from Panjab University Chandigarh.
- Joined as Panel of Reviewers / Board of Advisory with international Journal of applied research and studies IJARS in Jan. 2015.
- Joined editorial board of Journal of Harmonized Research in Applied Science. www.johronline.com
- Appointment as International Editorial Board Panel of IJMR www.ijmr.net.in
- Advisory/ Reviewers member of International Journal of Applied Research & Studies, iJARS, a scholarly e- journal Society Reviewer unique identification Code - iJARS100S02715 [http:// www.ijars.in](http://www.ijars.in)

- Reviewed paper for IJARS in JUNE 2015.
- Reviewed paper for IJARS, IJMRA , IJRS JOURNALS in 2016.

AWARDS & CO-CURRICULAR ACTIVITIES:



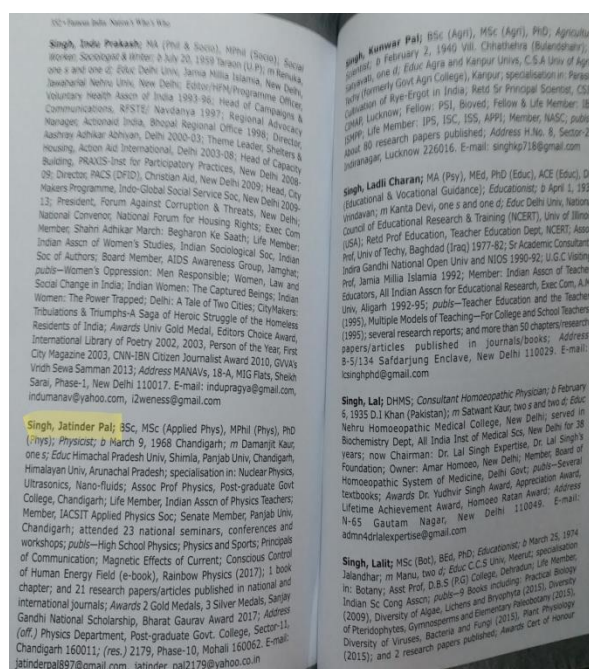
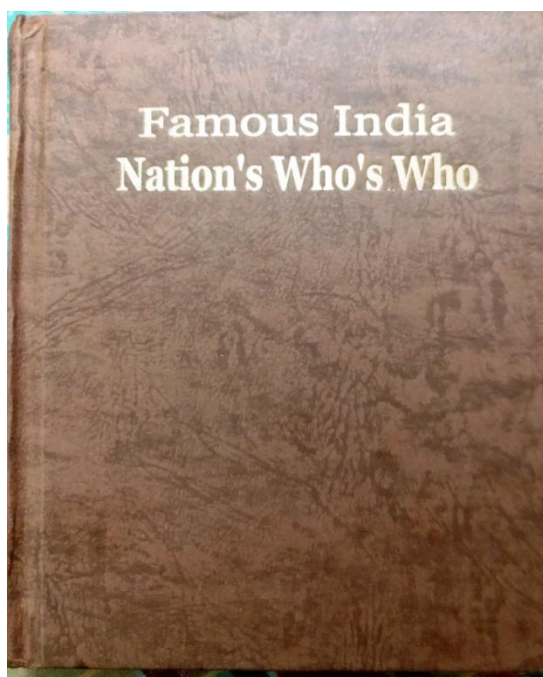
- Awarded **Bharat Gaurav Award 2017**



- **“Global outreach Award 2018-19”** by GOREA As Teacher of Physics Year 2019



- My Biographical-note has been published in **“Emerald who’s who in Asia”** vol 3 in May 2017 by Rifacimento International Publishers.



- Awarded Rank 1 **Gold Medal** in M.Sc. (Applied Physics) for 1986-88.

- Awarded **Gold Medal** for standing first in B.Sc in 1986 from H.P.U SHIMLA.
- Awarded with **two Silver Medals** from P.U Chandigarh for standing first in M.Sc (1) and M.sc (2).
- Smt Leela Devi Memorial scholarship for standing first in Pre. Engg from G C Mandi(HP)
- Awarded Sanjay Gandhi national scholarship for standing first in B.Sc from H.P.U Shimla.
- Awarded Jawahar Lal Nehru award for standing first in Himachal Pradesh university Shimla
- Life time member of Indian association of physics teachers (IAPT)
- Member of IACSIT Applied Physics Society (APS)
- Selected through PPSC Patiala for lecturers post in 1994.
- Nominated for INSA Teachers award 2017

Seminars & Workshops:

1. One day workshop on examination reforms “Art of writing Test Questions “at Dept. Of Education PANJAB UNIVERSITY CHANDIGARH on 17th March 1999.
2. One day conference on work place violence and Bullying: Search for synergy a UGC sponsored on 28th March 2007.
3. One day seminar on “Emerging Trends and challenges in teaching of geography in north western India” at Pggc-11, Chandigarh on 24th Jan, 2009.
4. Regional seminar on climate change held at govt. College SAS-NAGAR (Mohali) on 6th Feb, 2009.
5. National seminar on Dalits in historical Perspective in North western India held at pggc-11, Chandigarh on 13th Feb to 14th Feb 2009.
6. Workshop on e-content development conducted by Chandigarh administration from 10th March to 12th March, 2010 at PGGC-11, Chandigarh.
7. Workshop cum training on counseling services held at Pggc-11, Chandigarh from 17th December to 18th December 2010.
8. Attended National conference on “Physical Education: The Key for Holistic Inter-disciplinary Collaboration” sponsored by UGC, New Delhi, held at Post Graduate Govt College, Sector-11, Chandigarh, March 11-13, 2011

- 9. UGC sponsored National conference on “Re-engineering and Benchmarking in higher education sector in India: Away forward through ICTS held at Pggc-11, Chandigarh on 19th March, 2011.**
- 10. UGC sponsored National seminar on “Media and Governance” held at Pggc-11, Chandigarh on 28th March, 2012.**
- 11. Physics teaching and computer technology: aspect and challenges chascon-2013**
- 12. CV Raman lecture-2013 held on 7th August, 2013 at Panjab University Chandigarh delivered by Prof. Arun. K. Grover vice-chancellor.**
- 13. National seminar on “RECENT ADVANCES IN PHYSICS” held at MCM DAV College for women Chandigarh on 24th Feb, 2014.**
- 14. Intense study & practicals were carried out on proton induced x-ray technique (PIXE) at cyclotron Panjab University Chandigarh.**
- 15. Attended two days workshop on Experimental Physics at Guru Gobind Singh college sector-26, Chandigarh.**
- 16. National seminar on recent trends in material science on 21st Feb 2015 at S D college Chandigarh**
- 17. Chascon -2015 from 25th Feb to 27th Feb 2015 presented (poster) papers on nanomaterial's.**
- 18. Attended one day national symposium at S D college Chandigarh on Emerging Trends in Physics.**
- 19. Attended and presented paper in INTERNATIONAL CONFERENCE at Maharaja Aggarsen University Baddi (HP) 2nd may, 2015.**
- 20. one day workshop on CBCS system at Pgcb-42 Chandigarh on 19th May 2016 sponsored by RUSA.**
- 21. One day workshop on Panel discussion on CBCS system at Gccb -50 Chandigarh on 8th October 2016 sponsored by RUSA.**
- 22. Conducted and attended workshop on MIS sponsored by RUSA AT Pgpc-11 Chandigarh on 20th October 2016.**
- 23. Attended Principals conference at S D COLLEGE CHANDIGARH on 30th Nov.2016.**
- 24. One day workshop on cyber crime and security held at Pgpc-11 Chandigarh on 1st Feb**

2016.

25. One day workshop on E-waste Management in tricity on 22nd Feb 2017 sponsored by CDC PANJAB UNIVERSITY CHANDIGARH.

26. Participated in CHASCON-2017 held from 9th March-11th March 2017 at PANJAB UNIVERSITY CHANDIGARH.

27. One day workshop on Solar Energy held at Pgcg-11 Chandigarh on 29th March 2017.

28. Presented paper on trends and challenges in basic sciences at Maharaja Aggarsen University Baddi (H.P) on 4th March 2017.

29. Paper on “ROLE OF ULTRASONICS IN NANO TECHNOLOGY: AN OVERVIEW” presented in International conference at Rayat and Bahra University Mohali (ICAST) on 20-21st April 2017.

30. One day workshop on capacity building utilizing RUSA grants at MCM DAV College Chandigarh on 3rd May 2017.

31. One day workshop on MOOCS held at Pgcg-11 Chandigarh on 5th May 2017 sponsored by RUSA.

32. Coordinator for 7 days faculty development programme from 23rd April to 30th April 2018 at Pgcg-11, Chandigarh.

33. One day workshop on “Fund Tracker in RUSA PROJECTS ” AT RUSA office sector 42 Chandigarh on 13th July 2018

34. Organized live telecast of “Fit India” inauguration by Prime Minister on 29th August 2019.

35. Organized following workshop as HOD (IT)

From July, 2018 to December, 2018

Name of the Activity	Resource Person	Participation	Date
Digi Locker	M.Sc(IT) Illrd Sem students	More than 350 students opened there digi lockers	15 th Nov, 2018
Skill Development Programme	Er. Saurabh Kaushal, NITTTR, Chandigarh	BCA and M.Sc (IT) final year students	13 th Sept, 2018

List of Activities done from January, 2019 to July, 2019

Name of the Activity	Resource Person	Participation	Date
Web Designing	IT & Computer Sci Deptt.	BCA & B.Sc Computer Science First year students	25 th Jan, 2019
Web Security	Dr. Gaurav	BCA & M.sc(IT) final year	28 th Feb, 2019
IT Fest	--	--	2 nd March, 2019

S.No.	Date	Topic	Company/Resource Person	Venue	Students
1	16.09.19 (Mon)	Internet: Standards & Protocols	C-DAC, Mohali, industrial area	C-DAC – Industrial visit	M.Sc-IT-1 st year
2	18.09.19	Robotics & Drones	Chandigarh Institute of Drones, Mohali	Seminar Hall	BCA & M.Sc (IT)
3	20.09.19	Career guidance	AMC, Sector 36, Chandigarh	Computer lab - 264	BCA – 1 st & 2 nd
4	23.09.19	Python & Github & On-line test of M.Sc-3 rd year	Sachtech, Mohali	Biotech Conference hall	BCA-3 rd & M.Sc (IT)
5	25.09.19	Current technologies	Seibzz technologies, Mohali	Biotech Conference hall	BCA-3 rd & M.Sc (IT)
6	27.09.19	Bigdata & Cloud Computing	AMC, Sector 36, Chandigarh	Computer lab - 264	BCA-3 rd & M.Sc (IT)

SPECIAL ASSETS:

- Excellent academic record throughout, determined, dynamic with leadership qualities.
- Applications in nuclear physics, ultrasonic's studies, nano-materials
- Completed PhD in 2016
- Editor Science section of "The Vikas" Magazine of Pggc-11, Chandigarh for session 2014-15, 2017-18.
- Editorial /reviewer in various journals.

- **Administrative Experience in the capacity of Registrar examination, Coordinator RUSA, HOD IT department, Convener Technical committee of colleges, Chairperson for Technical specifications purchases on Gem Portal , Nodal officer skill development Programme , Sector officer in election-2019**

HOBBIES:

Interacting with people, Traveling & Exploring new destinations, solving aptitude problems, & Internet Surfing, Organizing seminars, workshops and IT-Fest.

Dr. Jatinder Pal Singh
Associate Professor in Physics
PGGC-11, Chandigarh
India