Name : **Dr. Shyam Sunder**

Designation : **Associate Professor in Physics**

Email ID : **shyampph@gmail.com**

Contact no : **9416361515, 9728257180**

Areas of Interest

- Nanoscience & Nanotechnology
- Material Science

Professional Background (Experience)

From	To	Designation	Organization
11.09.2021	**Till date**	Associate Professor Physics	Ch. Devi Lal State Institute of Engineering & Technology Panniwala Mota (Sirsa)
05.03.2020	10.09.2021	Associate Professor Physics	State Institute of Engineering & Technology Nilokheri
30.01.2020	04.03.2020	Associate Professor Physics	Ch. Devi Lal State Institute of Engineering & Technology Panniwala Mota (Sirsa)
19.01.2019	29.01.2020	Assistant Professor Physics	Ch. Devi Lal State Institute of Engineering & Technology Panniwala Mota (Sirsa)
17.01.2018	19.01.2019	Assistant Professor Physics	State Institute of Engineering & Technology Nilokheri
30.01.2006	16.09.2018	Assistant Professor Physics	Ch. Devi Lal State Institute of Engineering & Technology Panniwala Mota (Sirsa)
10.06.2003	30.01.2006	Lecturer in Physics	JCDM College of Engineering Sirsa

Honors and Awards:

Award	Institute	Year
University Merit Scholarship	Indian Institute of Technology Roorkee	2002
Silver Medal in B.Sc.-II Year	Govt. National College Sirsa	2000
Distinction in Physics10+2 th	Haryana State Board of School Education Bhiwani	1998

Educational Details:

Degree	Subject	University	Year
Ph.D.	Physics	Chaudhary Devi Lal University Sirsa	2015
M.Sc.	Physics	Indian Institute of Technology Roorkee	2003
B.Sc.	Physics, Chemistry & Mathematics	Kurukshetra University Kurukshetra	2001

Memberships:

- Life Member, Indian Association of Physics Teachers
- Life Member, Indian Science Congress

Teaching Engagements:

Title	Course Code	Class Name	Semester
Oscillations, Wave and Optics	BSC-101	B.Tech.	1st
Oscillations, Wave and Optics	BSC-101	B.Tech.	2nd
Oscillations, Wave and Optics	BSC-101P	B.Tech.	1st
Oscillations, Wave and Optics	BSC-101P	B.Tech.	2nd

Engagements other than Teaching:

Present

- Registrar, CDLSIET Panniwala Mota w.e.f 15 Nov. 2021
- Nodal Officer, Unnat Bharat Abhiyan.
- Sanraksak Gram Panchayat Bupp (Sirsa).

Previous

- Officer-in-Charge, Applied Science & Humanities, SIET Nilokheri
- Officer-in-Charge, Academic, SIET Nilokheri
- Registrar, CDLSIET Panniwala Mota
- Officer-in-Charge, Academic, CDLSIET Panniwala Mota
- Account Officer, CDLSIET Panniwala Mota
- Officer-in-Charge, VIP Guest House, CDLSIET Panniwala Mota
- Nodal Officer, Sansad Adrash Gram Yojna, CDLSIET Panniwala Mota
- Office-in-Charge, Landscaping, CDLSIET Panniwala Mota
- Officer-in-Charge, Administration, CDLSIET Panniwala Mota
- Officer-in-Charge, Scholarship, CDLSIET Panniwala Mota
- Officer-in-Charge, Dispensary, CDLSIET Panniwala Mota
- Nodal Officer, Cashless Transactions, CDLSIET Panniwala Mota
- Officer-in-Charge, Store & Purchase, CDLSIET Panniwala Mota

- Nodal Officer, CM Window, CDLSIET Panniwala Mota
- Nodal Officer, HRMS Portal, CDLSIET Panniwala Mota
- Head, Applied Science & Humanities Department, JCDMCOE Sirsa

Participation in Short Term Courses:

Couse Name	**Sponsored By**	**Date**
Orientation Program-88	Academic Staff College, Himachal Pardesh University Shimla (HP)	09.06.2008 to 05.07.2008
Instruction Planning & Delivery	NITTTR Chandigarh	23.06.2014 to27.06.2014
Refresher Course on Experimental Physics	Central University of Rajasthan Kishangarh	10.03.2015 to 25.03.2015
AICTE QIP on Recent Advances in Nanobiophotonics	Indian Institute of Technology Roorkee	13.07.2015 to 17.07.2015
Communication Skill	NITTTR Chandigarh	05.12.2016 to 09.12.2016
Cyber Crime & Forensic Tools	NITTTR Chandigarh	06.02.2017 to 10.02.2017
Newer Experiments in Applied Physics	NITTTR Chandigarh	20.02.2017 to 24.02.2017
Multimedia Tools & Utilities	NITTTR Chandigarh	27.03.2017 to 31.03.2017
Research Methodology	NITTTR Chandigarh	01.05.2017 to 12.05.2017
Novel Quantum Electronic Materials: Theoretical and Experimental Approach	Indian Institute of Technology Roorkee	18.12.2017 to 22.12.2017
Total Quality Management and ISO 9001:2015	NITTTR Chandigarh	05.03.2018 to 09.03.2018
Stress Management	NITTTR Chandigarh	25.02.2019 to 01.03.2019
Solid State Physics	MOOCS NPTEL Online	Jul-Oct 2019
Scilab Programming	NITTTR Chandigarh	14.04.2020 to 18.04.2020
Quantum and Energy Materials: Potential & Applications	NITTTR Chandigarh	20.04.2020 to 24.04.2020
Nanomaterials and Devices	NITTTR Chandigarh	27.04.2020 to 01.05.2020
Strategic Planning for Entrepreneurship Promotion	NITTTR Chandigarh	04.05.2020 to 08.05.2020

Industry-Academia Convergence "Bridging the Skill Gap"	JC Bose University of Science & Technology, YMCA, Faridabad	22.06.2020 to 26.06.2020
Businesses Green Shoots: Challenges, Skills and Strategies for Post Pandemic World	NITTTR Chandigarh	24.08.2020 to 28.08.2020
Leadership & Excellence	AICTE Training & Learning Academy	31.08.2020 to 04.09.2020
Green Technologies and Environmental Sustainability	JC Bose University of Science & Technology, YMCA, Faridabad	07.09.2020 to 12.09.2020
Universal Human Values for Student Induction Program	NIT Patna	21.09.2020 to 25.09.2020

Participation in Workshops:

Workshop	**Sponsored By**	**Date**
Characterization Tools for Materials	Department of Physics, Punjab University Chandigarh.	22.02.2011
INUP Familiarization Workshop on Nanofabrication Technologies	Indian Institute of Technology Roorkee & Indian Institute of Science Banglore	27.04.2017 to 28.04.2017
State Govt. Conference on Reforms in Technical Education in Haryana and Way Ahead	NITTTR Chandigarh	30.11.2017
Paper presented in National Symposium on Technologically Advanced Functional Materials NSTAFM-2017	Department of Physics Central University of Rajasthan Kishangarh	16.03.2017 to 17.03.2017
International webinar on Engineered Nanostructures for Therapeutic and Biomedical Education	RPS Degree College Mahendergarh	03.07.2020
National webinar on After Effects of Covid-19 on Engineering Education	JCDM College of Engineering Sirsa	18.07.2020
International webinar on Vocal for Local: Role of Technical Education in *"Aatam Nirbhar Bharat"*	State Institute of Engineering and Technology Nilokheri	02.10.2020

Publications:

International/National Journals:

1. S. Rohilla, B. Lal, **S. Sunder**, P. Aghamkar, S. Kumar and A. Aggarwal, "Synthesis of $Fe_4[Fe(CN)_6]_3.14H_2O$ Nanopowder by Co-Precipitation Technique and Effect of Heat Treatment" Acta Physica Polonica A, 118 (2010), pp. 696-700.

2. Sunil Rohilla, Sushil Kumar , P. Aghamkar , **S. Sunder** , A. Agarwal, "Investigations on structural and magnetic properties of cobalt ferrite/silica nanocomposites prepared by the coprecipitation method, J. Magn. Magn. Mater., 323 (2011), pp. 897–902.
3. **Shyam Sunder**, Sunil Rohilla, Sushil Kumar and Praveen Aghamkar, "Structural Characterization of Spinel Zinc Aluminate Nanoparticles Prepared by Coprecipitation Method ", ICACNM-2011 American Institute of Physics Conf. Proc. **1393**, 123 (2011); doi: 10.1063/1.3653640.
4. Sunil Rohilla, P. Aghamkar, **Shyam Sunder**, Atul Kumar and Bhajan Lal, "Synthesis and characterization of Fe4[Co(CN)6]3.16H2O/SiO2 nano-composites by coprecipitation method" Adv. Mat. Lett. 2013, **4**(1), 53-57, DOI: 10.5185/amlett.2013.icnano.111.
5. **Shyam Sunder** and Wazir Singh, "Thermal Evolution of Zinc Aluminate Spinel Nanoparticles Prepared by Coprecipitation Technique" International Journal of Scientific Research in Science, Engineering and Technology 2017, 3(8), 1302-1315.
6. **Shyam Sunder** and Wazir Singh, "Thermal Evolution of Magnesium Aluminate Spinel Nanoparticles Prepared By Coprecipitation Technique" International Journal of Scientific Research in Science, Engineering and Technology 2018, 4(6), 294-305.
7. **Shyam Sunder** and Wazir Singh, "Thermal Evolution and Structural Study of Cobalt Doped Magnesium Aluminate Spinel Nanoparticles Prepared by Coprecipitation Technique" International Journal of Scientific Research in Science, Engineering and Technology 2018, 4(7), 712-723.
8. **Shyam Sunder** and Wazir Singh, "Rietveld Refinement of Cobalt Doped Magnesium Aluminate Spinel Nanoparticles" International Journal of Scientific Research in Science, Engineering and Technology 2018, 4(8), 721-726.
9. Gaurav Singh Sisodia and **Shyam Sunder**, "Applications of Partial Differential Equations" Int. J. Math. And Appl., 6(3)(2018), 399-402.

Paper presented in International/National Conferences:

1. **S. Sunder**, B. Lal, A. Kumar, S. Rohilla, S. Kumar and P. Aghamkar, "Structural characterization of $MgAl_2O_4$ spinel nanoparticles prepared by co-precipitation method", CDAMOP-2011 at University of Delhi, Delhi.
2. S. Rohilla, P. Aghamkar, Bhajan Lal, **Shyam Sunder**,"Fourier Transform Infrared Spectroscopy of $Fe_4[Fe(CN)_6]_3.14H_2O$ Nanopowder", IISN-2010.
3. **Shyam Sunder**, Meenakshi Bansal, P. Aghamkar, Atul Kuamr and Sushil Kumar, "Synthesis and structural characterization of Co doped $MgAl_2O_4$" International

Conference on Nanotechnology in the Service of Health, Environment & Society, (NanoSciTech-2014), at Punjab University Chandigarh, February 13-15, 2014

4. Meenakshi Bansal, **Shyam S. Bansal**, Praveen Aghamkar and D S Ahalawat, "Preparation and Structural Characterization of CoFe2O4:SiO2 Nanocomposites", International Conference on Nanoscience & Nanotechnology (ICNN-2013) at Babasaheb Bhimrao Ambedkar University Lucknow.
5. B. Lal, S. Rohilla, **S. Sunder** and P. Aghamkar, "Synthesis and Characterization of nickel ferrite nanocrystallites dispersed in silica matrix", International Conference on Nanomaterials & Nanotechnology, University of Delhi, Delhi, India, December 18-21, 2011.
6. **S. Sunder**, B. Lal, A. Kumar, S. Rohilla, S. Kumar and P. Aghamkar, "Investigation on synthesis and structural characterization of spinel $MgAl_2O_4$ nanocrystallites", National Conference on Global Challenges: The Roll of Sciences & Technology in giving their Solution (GCRSTS-2012), TITS Bhiwani, March 3-4, 2012.
7. Bhajan Lal, P. Aghamkar, **Shyam Sunder**, and Sunil Rohilla, "Effect of plasma frequency, low magnetostatic field and pump intensity on $C^{(2)}$ in III-V piezoelectric", National Conference on Global Challenges: The Roll of Sciences & Technology in giving their Solution (GCRSTS-2012), TITS Bhiwani, March 3-4, 2012.
8. Sunil Rohilla, P. Aghamkar, B. Lal, **S. Sunder**, and Kamal Sardana "Structural and magnetic characterization of $Mn_2[Fe(CN)_6].xH_2O$ nano crystallite", National Conference on Global Challenges: The Roll of Sciences & Technology in giving their Solution (GCRSTS-2012), TITS Bhiwani, March 3-4, 2012.