

Dr. Navneet Dabra

Assistant Professor in Physics
Department of Science



RESEARCH GRANTS

Sr. no.	Award & Agency	Purpose	Amount (in Rs.)
1.	Travel Grant (Young Scientist), Department of Science and Technology (DST) , New Delhi, Government of India.(File No. SR/ITS/01885/2009-2010)	To attend an International conference MS&T'09 held between 25 th -29 th October, 2009 at Pittsburgh (PA), USA	95507.00
2.	Travel Grant (Young Scientist), All India Council For Technical Education (AICTE) , New Delhi, Government of India (File No. 1-7/RID/TR/(53)/2010-11)	To attend an International conference MS&T'10 held between 17 th -21 th October, 2010 at Houston (Tx), USA	62010.00

CONFERENCE/WORKSHOP ORGANIZED

07

Sr. no.	Conference/Workshop/Short Term Course	Post
1.	National Conference on " Smart, Electronic and Engineering Materials 2010 (SEEMs'10) " at Baba Farid College of Engineering and Technology, March, 5 th -6 th 2010 held at Bathinda-151001, Punjab, India.	Convener and Organizing Secretary
2.	Punjab Technical University Jalandhar sponsored Faculty Development Programme (Summer-2010) on " Developing Research Skills among Faculty " between 02 nd to 07 th July, 2010 organized at Baba Farid College of Engineering and Technology, Bathinda-151001, Punjab.	Course Coordinator
3.	Punjab Technical University Jalandhar sponsored Workshop on " Learning LaTeX for document writing " between 22 nd to 24 th December, 2010 organized at Baba Farid College of Engineering and Technology, Bathinda-151001, Punjab.	Course Coordinator
4.	National Conference on " Latest Advancements in Science, Engineering and Research 2011 (LASER'11) " (<i>sponsored by PTU-Jalandhar</i>) at Baba Farid College of Engineering and Technology, between May, 26 th -27 th 2011, Bathinda-151001, Punjab, India.	Convener
5	National Conference on " Global Upcomings in Environment, Science and Technology-2012 (GUEST'12) " (<i>funded by AICTE, CSIR, DRDO, DST-SERB (Division) New Delhi, Dept. of Atomic Energy, Mumbai and PTU-Jalandhar</i>) organized by Punjab Technical University Giani Zail Singh Campus, Bathinda-151001, Punjab India between April, 13 th -14 th 2012, Bathinda-151001, Punjab, India	Co-Convener
6	TEQIP-II sponsored National Conference on Latest Developments in Civil and Environment Engineering 2015 (LDCEE'15) held at GZS CCET Bathinda on 15 th -16 th Oct., 2015	Co-coordinator
7	SERB-DST Sponsored National Conference on "Recent Advancements in Science, Commerce & Technology 2016" (NCRSCT'16) held at Mata Sahib Kaur Girls College, Talwandi Sabo from 5 th -6 th April, 2016.	Organizing Secretary

SESSION CHAIR/RESOURCE PERSON OF CONFERENCE/WORKSHOP/FDP

07

Sr. no.	Name & venue of the conference	Symposia	National/ International
1.	Materials Science and Technology 2010 (MS&T'10) between 17 th -21 st October, 2010 at Houston, Texas, USA	Dielectric Ceramic Materials and Electronic Devices in the session Electronic Materials	International

		Applications: Devices	
2.	National Conference on “Smart, Electronic and Engineering Materials 2009 (SEEMs’10)” at Baba Farid College of Engineering and Technology, Bathinda held between March, 5 th -6 th 2010.	Ferroelectric, Multiferroics, Smart, Electronic Materials and its Applications	National
3.	National Conference on “Recent Advancements in Computer Science 2011” organized by Baba Farid College, Bathinda between January 21 st -22 nd , 2011.	Computer, Adhoc and Wireless Networks etc.	National
4.	National Conference “Futuristic and Emerging Areas in Technology: Issues and Challenges (FEAT’13)” organised by Department of Textile Engineering, Punjab Technical University Giani Zail Singh Campus, Bathinda on 14 th & 15 th February, 2013.	Mechanical Engg. and Materials Science	National
5.	International Conference on Information and Mathematical Sciences (IMS-13), 24 th -26 th Oct., 2013 (Sponsored by DST, CSIR, PTU, INSA, ISTE, ISITA) organised by Baba Farid College of Engineering and Technology, Bathinda, Punjab, India.	Materials Science	International
6.	National Physics Conference 2014 (NPC-01), held at Khalsa College, Patiala on 30-10-2014	Technical Session –II	National
7.	TEQIP-II sponsored National Conference on Latest Developments in Civil and Environment Engineering 2015 (LDCEE’15) held at GZS CCET Bathinda on 15 th -16 th Oct., 2015	Technical Session on Environment Engg.	National
8.	SERB-DST Sponsored National Conference on “Recent Advancements in Science, Commerce & Technology 2016” (NCRSCT’16) held at Mata Sahib Kaur Girls College, Talwandi Sabo from 5 th -6 th April, 2016.	Theme: Physics (Materials Science)	National

REVIEWER

J. American Ceramic Society, USA; Journal of Applied Physics (JAP), USA; International Journal of Applied Ceramic Technology, USA; Materials Science & Engineering A, Elsevier; Journal of Physics, Bioinfo Publications; Science of Advanced Materials (SAM), American Scientific Publishing (USA); Nanoscale Research Letters (NRL), Science and Interface Analysis, John Wiley & Sons, Ltd; J. Materials Science: Mat. in Electronics (JMS) (Springer); Research Cell: An International Journal of Engineering Sciences, ISSN: 2229-6913, India; International Journal of New Innovations, ISSN: 2277-4459; Reviewed a book entitled “Engineering Physics” published by Pearson Education a Dorling Kindersley (India) Pvt. Ltd., licensees of Pearson Education in South Asia; Surface and Interface Analysis (Wiley) USA.

MEMBERSHIPS

07

- ❑ Member “**American Ceramic Society (ACerS)-2009**” (53185), USA
- ❑ Life Member “**American Nano Society (ANS)**”, USA (113012)
- ❑ Member “**Scientific and Technical Committee & Editorial Review Board**” on Materials Science and Engineering, World Academy of Science, Engineering and Technology.
- ❑ Life Member “**International Association of Engineers (IAENG)**” (111302), Singapore
- ❑ Member “**International Association of Advanced Materials**” (Membership Number: 79526191537), Sweden (from 22/11/2016 to 21/11/2021)
- ❑ Life Member “**Materials Research Society of India (MRSI)**” (LMB1139), India
- ❑ Life Member “**Indian Association of Physics Teachers (IAPT)**” (8278 L-4857), India
- ❑ Life Member “**Indian Physics Association (IPA)**” (GEN/LM/12491), India
- ❑ Biography published in America’s **Marquis Who’s Who** 2010.

PUBLICATIONS

BOOKS/CONFERENCE PROCEEDINGS: As author/Editor 10

- 1) “The Pearson Guide to Physics for the UGC-CSIR National Eligibility Test” published by Pearson Education a Dorling Kindersley (India) Pvt. Ltd., licensee of Pearson Education in South Asia (2008) (ISBN no. 81-317-0258-8).
- 2) Edited Book of Abstract for “National Conference on Smart, Electronic and Engineering Materials 2010 (SEEMs’10)” organized by Baba Farid College of Engineering and Technology, Bathinda between 5th - 6th March, 2010.
- 3) Editor in Chief, Proceedings of the “National Conference on Latest Advancements in Science, Engineering and Research 2011 (LASER’11)” Vol. I Sponsored by Punjab Technical University, Jalandhar organized by Baba Farid College of Engineering and Technology, Bathinda between 26th -27th May, 2011 (ISBN: 978-93-81361-06-1).
- 4) Editor in Chief, Proceedings of the “National Conference on Latest Advancements in Science, Engineering and Research 2011 (LASER’11)” Vol. II Sponsored by Punjab Technical University, Jalandhar organized by Baba Farid College of Engineering and Technology, Bathinda between 26th -27th May, 2011 (ISBN: 978-93-81361-07-8).
- 5) Associate Editor, Proceedings of the National Conference on “Global Upcomings in Environment, Science and Technology-2012 (GUEST’12)” (funded by AICTE, CSIR, DRDO, DST-SERB (Division) New Delhi, Dept. of Atomic Energy, Mumbai and PTU-Jalandhar) organized by Punjab Technical University Giani Zail Singh Campus, Bathinda-151001, Punjab India between April, 13th -14th 2011, Bathinda-151001, Punjab, India (ISBN: 978-93-81583-40-1).
- 6) Edited Book of Abstract for National Conference “Futuristic and Emerging Areas in Technology: Issues and Challenges (FEAT’13)” organised by Departments of Textile Engineering, Punjab Technical University Giani Zail Singh Campus, Bathinda on 14th & 15th February, 2013.
- 7) Editor, Proceedings of National Conference “Futuristic and Emerging Areas in Technology: Issues and Challenges (FEAT’13)” organised by Departments of Textile Engineering, Punjab Technical University Giani Zail Singh Campus, Bathinda on 14th & 15th February, 2013.
- 8) Editor, Souvenir of TEQIP-II sponsored “National Conference on Latest Developments in Civil and Environment Engineering 2015 (LDCEE’15)” GZS Campus College of Engineering & Technology, Maharaja Ranjit Singh State Technical University, Bathinda from 15th-16th Oct., 2015.
- 9) Editor, Proceedings of TEQIP-II sponsored “National Conference on Latest Developments in Civil and Environment Engineering 2015 (LDCEE’15)” GZS Campus College of Engineering & Technology, Maharaja Ranjit Singh State Technical University, Bathinda from 15th-16th Oct., 2015 (ISBN No. 978-93-5254-071-6).
- 10) Editor, Proceedings of SERB-DST Sponsored National Conference on “Recent Advancements in Science, Commerce & Technology 2016” (NCRSCT’16) held at Mata Sahib Kaur Girls College, Talwandi Sabo from 5th-6th April, 2016.

RESEARCH PAPERS IN REFEREED INTERNATIONAL JOURNALS

Sr. no.	Author/Authors	Title of the paper	Name of the Journal, Vol., Page no. year	ISSN No. and Impact Factor
1.	B. Kaur, <u>Navneet Dabra</u> ,* and J. S. Hundal	Investigation of Structural and Optical Properties of Annealing Modified Mullite Bismuth Ferrite via Novel Combustion Method	Materials Research Express 2017 (communicated)	Impact factor: 0.968 ISSN: 2053-1591
2.	B. Kaur, L. Singh, V. Annapu Reddy, Dae-Yong Jeong, <u>Navneet Dabra</u> ,* and J. S. Hundal	AC Impedance Spectroscopy, Conductivity and Optical Studies of Sr doped Bismuth Ferrite Nanocomposites. DOI: 10.20964/110353	International Journal of Electrochemical Sciences , Vol.11, Issue 4, pp. 4120 – 4135, 2016	Impact factor: 1.692 ISSN: 1452-3981
3.	B. Kaur, L. Singh, V. Annapu Reddy, Dae-Yong Jeong, <u>Navneet Dabra</u> ,* and J. S. Hundal	Study of A-site divalent doping on multiferroic properties of BFO nanoparticles processed via combustion method DOI: 10.5185/amlett.2016.6457	Advanced Materials Letters , Vol. 7, Issue 12, Page 1015-1020, 2016.	Impact Factor : 1.93 ISSN : 0976-3961 eISSN : 0976-397X
4.	L. Singh, B. Kaur, N. Kumar, Dae-Yong Jeong, <u>Navneet Dabra</u> ,* and J. S.	Structural Analysis of enhanced Ferroelectricity in Nano-Composite Films of Sodium Nitrite in poly-Vinyl	International Journal of Electrochemical Sciences , Vol.11, Issue	Impact factor: 1.692 ISSN: 1452-3981

	Hundal	Alcohol matrix fabricated at moderate elevated Temperature. DOI: 10.20964/110354	4, pp. 4037 - 4049, 2016	
5.	L. Singh, B. Kaur, T. Garg, Navneet Dabra , J. S. Hundal	Effect of Annealing Conditions on the Ferroelectric response of NaNO ₂ : PVA nano-Composite Films fabricated at elevated temperature	International journal of Surface Engineering and Materials Technology, Vol. 6, No.2	Accepted
6.	V. Annapu Reddy, NavneetDabra *, K. K. Ashish, J. S. Hundal, N. P. Pathak and R. Nath	Multiferroic Properties in Nanostructured Multilayered Magnetic Semiconductor Bi _{0.9} La _{0.1} Fe _{0.9} Co _{0.1} O ₃ -BiFeO ₃ Thin Films DOI: 10.5185/amlett.2015.5802	Advanced Materials Letters Volume 6, Issue 8, Page 678-683, Year 2015.	Impact Factor : 1.93 ISSN : 0976-3961 eISSN : 0976-397X
7.	N. Mishra, NavneetDabra *, A. Nautiyal, J. S. Hundal, G. D. Varma, N. P. Pathak, and R. Nath	Ferroelectric and Switching Properties of Spray Deposited NaNO ₂ : PVA Composite Films on Porous Silicon DOI: 10.1080/07315171.2015.1068502	Ferroelectric Letter Section Vol. 42, Issue 4-6, p. 75-86, 2015	ISSN: 0731-5171 (print), 1563-5228 (online) Publication date : 04th Dec., 2015
8.	A. Nautiyal, NavneetDabra *, J. S. Hundal, N. P. Pathak, and R. Nath	Investigation on structural and ferroelectric properties of spray deposited Cs _{1-x} K _x NO ₃ : PVA composite films. DOI: 10.1109/TDEI.2014.004099	IEEE Dielectric and Electrical Insulation Vol. 22, Issue 1, pp. 251-256, 2015	ISSN : 1070-9878 Impact Factor : 1.228 Publication date: Feb., 2015
9.	L. Singh Dev, U. Verma, V. Annapureddy, L. Singh, NavneetDabra *, J. S. Hundal, and R. Nath	Structural and Ferroelectric Studies on KNO ₃ : PEO Nano-composite Films DOI: http://dx.doi.org/10.1166/jno.2014.1611	Journal of Nanoelectronics and Optoelectronics Vol. 9 (3), p. 397-400, 2014	ISSN: 1555-130X (Print); EISSN: 1555-1318 (Online) Publication date: June 1st, 2014
10.	V. Annapu Reddy, NavneetDabra *, Jasbir S. Hundal, N. P. Pathak and R. Nath	Structural and Multiferroic Characteristics of Nano-composite Ba _{0.5} Sr _{0.5} TiO ₃ -Bi _{0.9} La _{0.1} Fe _{0.9} Mn _{0.1} O ₃ Thin Film Heterostructures DOI: http://dx.doi.org/10.1166/sam.2014.1865	Science of Advanced Materials, Vol. 6, No. 5, p. 1043-1051, 2014	ISSN: 1947-2935 (Print); EISSN: 1947-2943 (Online) Impact Factor : 2.509 Publication date: May 1st, 2014
11.	J. Lee, S. Lee, Min-Geun Choi, Im-Jun No, J. Ryu, NavneetDabra , J. S. Hundal and D. Y. Jeong	Synthesis and Photoluminescence Properties of Hydrothermally grown ZnO Nanowires on Aerosol Deposited AZO Seed Layer. DOI: http://dx.doi.org/10.1016/j.ceramint.2014.03.054	Ceramic International, Vol. 40, No. 7, Part B, p. 10693-10698, 2014	ISSN: 0272-8842 Impact Factor: 2.758 Pub. Online: March 19th, 2014
12.	V. Annapu Reddy, NavneetDabra *, J. S. Hundal, N. P. Pathak and R. Nath	Enhancement of Multiferroic Properties in Nano-Heterostructured Multilayer Bi _{0.9} La _{0.1} Fe _{0.9} Mn _{0.1} O ₃ - BiFeO ₃ - Zn _{0.91} Cr _{0.09} O Thin Films DOI: http://dx.doi.org/10.1166/sam.2014.1922	Science of Advanced Materials, Vol. 6, No. 6, p. 1228-1235, 2014	ISSN: 1947-2935 (Print); EISSN: 1947-2943 (Online) Impact Factor : 2.509 Publication date: June 1st, 2014
13.	N. Kumar, NavneetDabra *, J. S. Hundal and R. Nath	Thermal effects on the electrical properties of Potassium Nitrate: Polyvinyl Alcohol Composite Films Web-link: http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=2379&catid=85	The Optoelectronics and Advanced Materials-Research Communication, Vol. 8, No. 7-8, p. 804 - 809, July - August 2014,	ISSN: 2065-3824, 1842-6573 Impact Factor : 0.394 (2013) Publication date: July 1st, 2014.
14.	V. Annapu Reddy, NavneetDabra *, J. S.	Tunability in Three-Component Ba _{0.5} Sr _{0.5} TiO ₃ -Graphite- Poly	Science of Advanced Materials,	ISSN: 1947-2935 (Print); EISSN:

	Hundal, N. P. Pathak and R. Nath	(Vinylidene Fluoride) Nano-Composite Films DOI: http://dx.doi.org/10.1166/sam.2014.1707	Vol. 6, No. 2, p. 235-242, 2014	1947-2943 (Online) Impact Factor : 2.509 Publication date: February 1, 2014
15.	L. Singh, B. Kaur, Navneet Dabra	Composites of Ferroelectric Ceramics and Polymers - a Potential Source of Non-Volatile Memory. http://ijoes.vidyapublications.com/paper/Vol13/24-Vol13.pdf	Research Cell : An International Journal of Engineering Sciences , Vol. 3, p. 115-118, 2014	ISSN: 2229-6913 (Print), ISSN: 2320-0332 (Online) Pub. online: Dec., 2014
16.	N. Kumar, Navneet Dabra , J. S. Hundal & R. Nath	Bias Dependent Current-Voltage (I-V) Characteristics of Ferroelectric Potassium Nitrate: Poly (vinyl fluoride) Composite Films. http://www.tandfonline.com/doi/abs/10.1080/07315171.2013.843993	Ferroelectric Letter Section , Vol. 40 (4-6), p. 108-113, 2013	ISSN: 0731-5171 (print), 1563-5228 (online) Impact Factor : 0.46 Pub. online: Nov. 5, 2013
17.	Navneet Dabra , J. S. Hundal, D. YJeong, B. Kaur, A. Nautiyal, V. Annapu Reddy and R. Nath	Evaluation of Structural and Ferroelectric Properties in Spray Deposited $(\text{NH}_4)_{0.39}\text{K}_{0.61}\text{NO}_3$: PVA Composite Films. DOI: http://dx.doi.org/10.1166/mat.2013.1122	Mater. Focus , Vol. 2, p. 454-460, 2013	ISSN: 2169-429X(Print) EISSN: 2169-4303 (Online) Pub. Date: December 1, 2013
18.	A. Nautiyal, Navneet Dabra , N. P. Pathak, J. S. Hundal and R. Nath	Modelling of Multilayer Ferroelectric – Polymer Composite Film Based Suspended Microstrip Line and Its Discontinuities	INT. J. NEW. INN. , Vol. 1, Issue 3, p 386-395, 2012	ISSN : 2277- 4459
19.	Annapu Reddy, V. K. C. Sekhar, Navneet Dabra , A. Nautiyal, J.S. Hundal, N.P Pathak and R. Nath	Study of Ferroelectric and Magnetic Properties of Hot-Pressed BiFeO_3 -PVDF Composite Films http://www.isrn.com/journals/ms/2011/142968/ Doi:10.5402/2011/142968	ISNR Materials Science Volume 2011 , Article ID 142968, 5 pages	ISSN: 2090-6080 Pub. Date: 25 th April, 2011
20.	A. Nautiyal, Navneet Dabra , K.C. Sekhar, J.S. Hundal, N.P Pathak and R. Nath,	Switching Kinetics in Cesium Nitrate: Poly (vinyl alcohol) composite film http://www.tandfonline.com/doi/abs/10.1080/07315171.2011.570181	Ferroelectric Letters Section , Vol. 38 (1-3), p 51-58, 2011	ISSN: 0731-5171 (print), 1563-5228 (online), Impact factor: 0.46
21.	Navneet Dabra , J.S. Hundal, K.C. Sekhar, A. Nautiyal, and R. Nath	Analysis of Ferroelectric Polarization Switching in $(\text{NH}_4)_{0.39}\text{K}_{0.61}\text{NO}_3$ (NKN) Films using Nucleation Limited Switching Model. http://dx.doi.org/10.1063/1.3457228	Journal of Applied Physics , Vol. 108, 024108 (2010).	ISSN: 0021-8979 (print), 1089-7550 (online), Impact factor: 2.101 (Thomson Reuters, 2011).
22.	A. Nautiyal, K.C. Sekhar, N.P Pathak, R. Nath, Navneet Dabra , and J.S. Hundal,	Polarization Switching Properties of Spray Deposited CsNO_3 : PVA Composite Films. http://www.springerlink.com/content/m513753112ug51tu/	J. of Applied Physics A: Mater. Sci. & Pro. , Vol. 99, No. 4, p. 941-946, 2010.	ISSN: 0947-8396 (Print) 1432-0630 (Online), Impact factor: 1.444 (Thomson Reuters, 2011).
23.	Navneet Dabra , Jasbir S. Hundal	Polarization Switching Behavior of Ferroelectric $(\text{NH}_4)_{0.39}\text{K}_{0.61}\text{NO}_3$ Films. http://www.scientific.net/AMR.93-94.49	J. Adv. Mater. Res. , Vols. 93-94, p. 49-58, 2010.	ISSN: 1662-8985, Impact Factor: 0.56.
24.	Navneet Dabra , Jasbir S. Hundal, K.C. Sekhar, Arvind Nautiyal and R. Nath	Preparation and Characterization of the Ferroelectric Potassium Nitrate: Poly(vinyl alcohol) Composite Films. http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5183589	IEEE Trans. on Ultrasonics, Ferro., and Freq. Cont. , Vol. 56, No. 8, p. 1627-1633, 2009.	ISSN: 0885-3010, Impact factor: 2.287
25.	Navneet Dabra , Jasbir S. Hundal, K.C. Sekhar, Arvind Nautiyal and R. Nath	Ferroelectric Phase Stability Studies in Spray Deposited KNO_3 : PVA Composite Films. http://onlinelibrary.wiley.com/doi/10.1111/j.1551-	Journal of American Ceramic Society , Vol. 92, No. 4, p. 834-838, 2009.	ISSN: 0002-7820 (Print), 1551-2916 (online), Impact factor: 2.787

		2916.2009.02976.x/abstract		
26.	Jasbir S. Hundal, and Navneet Dabra	Preparation and characterization of amorphous cadmium-selenium ribbons. http://dx.doi.org/10.1016/j.jnoncrysol.2007.04.012	Journal of Non-Crystalline Solids , Vol. 353, p. 2328-2332, 2007	ISSN: 0022-3093, Impact factor: 1.825

* Corresponding Author

PUBLICATIONS IN PROCEEDING 09

Sr. no.	Author/ Authors	Title of the paper	Proceedings	ISBN/ISSN No.
1.	L. Singh, B. Kaur, Navneet Dabra , J.S Hundal.	Ferroelectric Phenomena in Oxides -Review	Proceedings of the National Conference on "Global Upcomings in Environment, Science and Technology-2012 (GUEST'12)" (funded by AICTE, CSIR, DRDO, DST-SERB (Division) New Delhi, Dept. of Atomic Energy, Mumbai and PTU-Jalandhar), p 208-215, 2012	ISBN: 978-93-81583-40-1 National
2.	B. Kaur, Navneet Dabra , L. Singh and J.S Hundal	A Model Multiferroic- BiFeO ₃	Proceedings of the National Conference on "Recent Advancements & Innovations in Science and Engineering (RAISE-2012)" Vol. 1, p 215-218, 2012	ISBN 978-93-81583-16-6 National
3.	N. Mishra, Navneet Dabra , A. Nautiyal and A. Mitra	Detection and Characterization of Surface Plasmon Resonance Tunable Gold and Silver Films	Proceedings of the National Conference on Latest Advancements in Science, Engineering and Research 2011 (LASER'11) Vol. I, p. 1-4, May 2011	ISBN: 978-93-81361-06-1 National
4.	A. Nautiyal, Navneet Dabra , N. P. Pathak and R. Nath	Modelling of Discontinuities in CsNO ₃ : PVA Based Multilayer Suspended Microstrip Line	Proceedings of the National Conference on Latest Advancements in Science, Engineering and Research 2011 (LASER'11), Vol. I, p. 22-26, May 2011	ISBN: 978-93-81361-06-1 National
5.	K. S. Sandhu, A. Sidana, B. Singh, Navneet Dabra , M. Goyal	Friction Stir Welding of Dissimilar Aluminium and Magnesium Alloys Used in Automobile and Aerospace Industry	Proceedings of the National Conference on Latest Advancements in Science, Engineering and Research 2011 (LASER'11), Vol. I, p. 376-381, May 2011	ISBN: 978-93-81361-06-1 National
6.	L. Singh, J. S. Hundal, Navneet Dabra *, B. Kaur	Understanding Various Techniques & Instruments Employed for Surface Analysis- A Review	Proceedings of the National Conference on Latest Advancements in Science, Engineering and Research 2011 (LASER'11), Vol. I, p. 27-34, May 2011	ISBN: 978-93-81361-06-1 National
7.	Navneet Dabra *, N. Kumar, L. Singh, A. Nautiyal, N. Mishra, H. L. Jasuja and J. S. Hundal	Ferroelectric Properties of Potassium Nitrate (KNO ₃): Polymer Composite Films- A Review	Proceedings of the National Conference on Latest Advancements in Science, Engineering and Research 2011 (LASER'11), Vol. I, p. 19-21, May 2011	ISBN: 978-93-81361-06-1 National
8.	S. Kaur, G. S. Mann and Navneet Dabra	A Review on Scheduling in A Grid System	Proceedings of the National Conference on Latest Advancements in Science, Engineering and Research 2011 (LASER'11), Vol.II, p. 144-149, May 2011	ISBN: 978-93-81361-07-8 National
9.	J. S. Hundal and Navneet Dabra	Dielectric And Switching Behavior of Ferroelectric (NH ₄) _{0.39} K _{0.61} NO ₃ Films http://ptuconferences.com/digitalibrary/aftmme2010/4.pdf	Proceedings of the National Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (February 19-20, 2010), p 16-20, 2010 organized by Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo.	National

Sr. no.	Title of the paper	Name of the Conference
1.	Investigation on ferroelectric properties of sodium nitrite: poly(vinyl alcohol) nanocomposite films	Materials Science and Technology 2010 (MS&T'10) between 17 th -21 st October, 2010 at Houston, Texas, USA.
2.	Preparation and Characterization of Ferroelectric Ammonium Potassium Nitrate (NH ₄) _{0.39} K _{0.61} NO ₃ (NKN): Poly(vinyl alcohol) (PVA) Composite Films	Materials Science and Technology, 2009 (MS&T'09), 25 th -29 th Oct., 2009, Pittsburg (PA), USA.
3.	Comparative Study of Ferroelectric Behaviour of Potassium Nitrate (KNO ₃): Polymer Composite Films (Poster presentation)	International conference on Arts, Sciences, Management and Engineering, Cogent international, April 23 rd -25 th 2009 held at Goa, India.
4.	Mathematical Analysis of the Ferroelectric Domains in Ferroelectric-Polymer Composite Thin Films (Invited)	International Conference on Information and Mathematical Sciences (IMS-13), 24 th -26 th Oct., 2013 (Sponsored by DST, CSIR, PTU, INSA, ISTE, ISITA) organised by Baba Farid College of Engineering and Technology, Bathinda, Punjab, India
5.	Multiferroic Materials: A Frustrated Magnets	International Conference on Information and Mathematical Sciences (IMS-13), 24 th -26 th Oct., 2013 (Sponsored by DST, CSIR, PTU, INSA, ISTE, ISITA) organised by Baba Farid College of Engineering and Technology, Bathinda, Punjab, India
6.	Managing Quality Culture in Higher Education	8 th International Conference "Challenges in Higher Education" organized by DeshBhagat University, MandiGobindgarh, Punjab, on 26 th and 27 th Sept., 2014.

PARTICIPATION/PRESENTATION INNATIONAL CONFERENCE

Sr. no.	Title of the paper	Name of the Conference
1.	Study of Phase Variation in Bismuth Ferrite by Bismuth off Stoichiometry (Poster)	SERB-DST Sponsored National Conference on "Recent Advancements in Science, Commerce & Technology 2016" (NCRSCT'16) held at Mata Sahib Kaur Girls College, Talwandi Sabo from 5 th -6 th April, 2016.
2.	Synthesis of Metal Oxide Nanomaterials via Solution Combustion Method: A Review (Poster)	SERB-DST Sponsored National Conference on "Recent Advancements in Science, Commerce & Technology 2016" (NCRSCT'16) held at Mata Sahib Kaur Girls College, Talwandi Sabo from 5 th -6 th April, 2016.
3.	A Brief Study: Multiferroic Thin Films	TEQIP-II sponsored " National Conference on Latest Developments in Civil and Environment Engineering 2015 (LDCEE'15) " held atGZS Campus College of Engineering & Technology, Maharaja Ranjit Singh State Technical University, Bathinda from 15 th -16 th Oct., 2015.
4.	Ferroelectric Materials & Its Composites	TEQIP-II sponsored " National Conference on Latest Developments in Civil and Environment Engineering 2015 (LDCEE'15) " held atGZS Campus College of Engineering & Technology, Maharaja Ranjit Singh State Technical University, Bathinda from 15 th -16 th Oct., 2015.
5.	An Insight To Solution Combustion Synthesis	TEQIP-II sponsored " National Conference on Latest Developments in Civil and Environment Engineering 2015 (LDCEE'15) " held atGZS Campus College of Engineering & Technology, Maharaja Ranjit Singh State Technical University, Bathinda from 15 th -16 th Oct., 2015.
6.	Multiferroicity in BLFM-BFO Nano-Composite Films.	National Physics Conference 2014 (NPC-01) held at Khalsa College, Patiala on 31-10-2014.
7.	Ferroelectric properties of spray deposited NaNO ₂ : Polymer Composite Films.	National Physics Conference 2014 (NPC-01) held at Khalsa College, Patiala on 31-10-2014.

8.	Structural and Ferroelectric Properties in Sodium Nitrite: Starch Nano-composite Films (Poster Presentation)	National Conference on “ Emerging Horizons in Science & Technology ”organised by Sri Guru Granth Sahib World University, Fatehgarh Sahib on 17 & 18 Jan., 2014
9.	-----	National Conference “ Futuristic and Emerging Areas in Technology: Issues and Challenges (FEAT'13) ” organised by Departments of Textile Engineering, Punjab Technical UniversityGianiZail Singh Campus, Bathinda on 14 th & 15 th February, 2013.
10.	Characterization Techniques for Thin Films/Bulk Materials and their applications	National Conference on “ Global Upcomings in Environment, Science and Technology-2012 (GUEST'12) ”, Punjab Technical University GianiZail Singh Campus, Bathinda-151001, Punjab India between April, 13 th -14 th 2011, Bathinda-151001, Punjab, India
11.	Phase Transitions and Ferroelectricity in the Soft Ceramic Polymer Composites	National Conference on New Innovations in Science, Technology and Management (NISTM-12) organized by Rattan Institute of Technology & Management, Saveli (Palwal), Harayana
12.	Computational Methods for Ferroelectric Measurements	National Conference on “ Advanced Mathematics and its Applications (CAMA' 11) ”, 25 th & 26 th February, 2011 (UGC Sponsored).
13.	The Simulation of Domain Switching in Polycrystalline Ferroelectric: Polymer Composites.	National Conference on “ Advanced Mathematics and its Applications (CAMA' 11) ”, 25 th & 26 th February, 2011(UGC Sponsored).
14.	Effect of Deposition Temperature on the Ferroelectric Properties of Ferroelectric Ammonium Potassium Nitrate (NH ₄) _{0.39} K _{0.61} NO ₃ (NKN): Poly(vinyl alcohol) (PVA) Composite Films	National Conference on “ Smart, Electronic and Engineering Materials 2010 (SEEMs'10) ” organized by Baba Farid College of Engineering and Technology, Bathinda between 5 th -6 th March, 2010.
15.	Investigation of Improved Ferroelectric and Dynamic Dielectric Behavior in the KNO ₃ : PVA Composite Films	National Conference on Current Trends in Electrical Engineering-08 (CTEE-08) organized by the Department of Electrical Engineering, GianiZail Singh College of Engineering & Technology, Bathinda on 14 th Feb, 2008.
16.	-----	National Symposium on “ Radiation Measurement & Applications (NSRMA-2004) ” organized by the Department of Physics, Punjabi University, Patiala from November 19 th –20 th , 2004.

WORKSHOP/TRAINING PROGRAM/SHORT TERM COURSE ATTENDED

13

Sr. no.	Name of the Workshop/Short term course	Organizers	Duration	Number of days/weeks
1.	Workshop on “ Patent Awareness Workshop ”in association with Patent Information Center, Punjab State Council for Science and Technology, Chandigarh	Yadavindra College of Engineering, Punjabi University Guru Khasi Campus, Talwandi Sabo.	Dec. 11 th , 2009	01 Day
2.	Workshop on “ Creating Leadership Quality ”	Department of Research and Development, Baba Farid Group of Institutions, Bathinda	March 30 th and 31 st , 2010	02 Days
3.	Punjab Technical University Jalandhar sponsored Faculty Development Programme (Summer-2010) on “ New Trends in Classroom Instruction in Higher Education & Developing Career Counselling Skills among Faculty ”	Baba Farid College of Engineering and Technology, Bathinda-151001, Punjab.	22 nd to 26 th June, 2010	One week
4.	Punjab Technical University Jalandhar sponsored Faculty Development Programme (Summer-2010) on “ Developing Research Skills among Faculty ”	Baba Farid College of Engineering and Technology, Bathinda-151001, Punjab.	02 nd to 07 th July, 2010	One week
5.	Faculty Development Programme (Summer-2010) on “ Manufacturing and its Advance Techniques ” sponsored by Punjab Technical University Jalandhar	Guru Gobind Singh College of Engineering & Technology, Talwandi Sabo	July 12 th to July 16 th , 2010	One week

6.	Punjab Technical University Jalandhar sponsored Workshop on ”Dynamic of Employee Motivation & Strategic Role of Leadership in Academic Institutions”	Baba Farid College of Engineering and Technology, Bathinda-151001, Punjab	15 th to 17 th Dec, 2010	03 Days
7.	Workshop on “Making and Managing Patents” in association with Punjab State Council for Science and Technology duly approved by Technology Information Forecasting and Assessment Council (TIFAC), Department of Science and Technology (DST), Government of India.	Punjab Technical University, Jalandhar, Punjab	March 16 th , 2011	01 Day
8.	AICTE New Delhi Sponsored Staff Development Programme (under QIP Scheme) on “Smart Nanoceramics and NanoScience Research Tools”	Department of Physics, Indian Institute of Technology Roorkee	13 th to 17 th July, 2011	One week
9.	Punjab Technical University Jalandhar sponsored Workshop on “Human values and Professional Ethics”	Guru TegBhadurKhalsa Institute of Engineering and technology, Malout	21 st to 23 rd Oct., 2011	03 Days
10.	Sustainable Development-Issue and Latest Development	NITTTR, Chandigarh (MHRD, New Delhi) conducted at Department of Civil Engineering, Punjab Technical University GianiZail Singh Campus, Bathinda	02 nd to 13 th July, 2012	Two Week
11.	Short Term Course on Recent Trends in Advanced Materials and Computing Techniques (TEQIP-II sponsored)	Departments of Physics & Computer Science Engineering. Dr BR Ambedkar National Institute of Technology, Jalandhar	11 th -15 th March, 2013	One week
12.	ShortTerm Programme- Induction Training Programme through ICT (NITTTR Chandigarh)	NITTTR, Chandigarh (MHRD, New Delhi) conducted at GianiZail Singh Punjab Technical University Campus, Bathinda	03-07 June, 2013	One Week
13.	NSS Programme Officer’s- Training	Empanelled Training Institution (NSS), Ministry of Youth Affairs & Sports (Govt. of India) Conducted at Punjabi University, Patiala,	06-12 March, 2014	One Week
14.	32 nd Orientation Course	Human Resource Development Centre, Punjabi University, Patiala.	26 th April to 23 rd May 2017	28 Days