

FACULTY PROFILE



Name	MAHESWAR PANDA						Date of Birth:05/05/1979			
Designation	ASSISTANT PROFESSOR				Date of holding Present Post			29.05.2013		
Name of the Department and School	PHYSICS						School of Mathematical and Physical Sciences			
Contact Details	Email : panda.maheswar@gmail.com						Mobile:9179509336			
Educational Qualifications (UG onwards)	UG: First class honors (Phy) with distinction--1999, PG: First class-2001, Ph.D.(IITKGP)-2010/11									
Research Area/Specialization	Experimental condensed matter Physics and Material science: High K Polymer Dielectrics, Energy storage materials, Phase Trasitions, Multiferroics & Magneto-Electrics,Rheology, EMI shielding, Photovoltaics, Supercapacitors.									
Awards/ Honors / Fellowship Conferred (With details thereof)	Young Achiever Award-2017 at ICC-2017 , Bikaner, Rajasthan. INSA Visiting fellowship—2019 at IOP, BBSR Nominated for DAE SSPS-2018 YAA-2018 at GJUST, HISAR, HARYANA-2018									
Summary of Publications (Number only)	Research Papers	23	Books	00	Chapter in Books	00	Seminars/ Conferences Proceedings	25	Projects	02

Research Projects (Completed and Ongoing):

S.No.	Title	Funding Agency	Duration	Sanction order No. & Date	Amount in Rs. Lakh	Completed/ongoing
1.	Polymer composites for high dielectric (electronic) applications	UGC, NewDelhi	2014-16		06	Completed
2	Development of low loss polymer/conductor composites for high 'K' applications	DST, NewDelhi	2014-17		27	Completed

PUBLICATIONS – 2013 onwards :

National Publications(Details of Research Papers) – 2013 onwards:

2016	<ul style="list-style-type: none"> Maheswar Panda, V. Srinivas and A. K. Thakur "Multiferroic properties of PVDF/Ni nano composites", Indian Journal of Pure and Applied Physics, 54, 144 (2016).
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International Publications(Details of Research Papers) – 2013 onwards:

2014	<ul style="list-style-type: none"> Maheswar Panda, V. Srinivas and A. K. Thakur "Universal microstructure and Conductivity relaxation of Polymer-Conductor composites across the percolation threshold" Current Applied Physics, 14, 1596 (2014). Maheswar Panda, V. Srinivas and A. K. Thakur " Dielectric Spectroscopy of Polymer-Metal Composites across the Percolation Threshold", Journal of Advanced Dielectrics, 04, 1450027 (2014). 3. Maheswar Panda, V. Srinivas and A. K. Thakur "Percolation behaviour of polymer-metal composites on modification of filler" Modern Physics Letters B, 28, 1450055 (2014).
2015	<ul style="list-style-type: none"> Maheswar Panda, V. Srinivas and A. K. Thakur "Non-universal scaling behavior of polymer-metal composites across the percolation threshold" Results in Physics, 5,136-141 (2015).
2017	<ul style="list-style-type: none"> 1. Maheswar Panda "Major role of process conditions in tuning the percolation behavior of polyvinylidene fluoride based polymer/metal composites" Applied Physics Letters 111, 082901 (2017)
2018	<ul style="list-style-type: none"> Maheswar Panda, "Evidence of a third kind of Johnscher's like universal dielectric response" Journal of Advanced Dielectrics 08, 1850028 (2018). Maheswar Panda andSunilSoni"A Comparative Study of Visco-Elastic Properties of non-Polar and Polar Polymer Dielectrics"Materials Today: Proceeding, 05, 2123 (2018). Maheswar Panda "Ferroelectric Polymer Dielectrics: Emerging Materials for Future Electrostatic Energy Storage Applications" AIP Conf. Proceeding on ICC-2017, 1953, 020001-1 (2018). AkshkumarVerma, Ashish Verma andMaheswar Panda, "Mechano-Luminescence Studies of nano ZnMgAl₁₀O₁₇:Eu Phosphor Under UV Irradiation" AIP Conf. Proceeding on ICC-2017, 1953, 030037-1 (2018).
2019	<ul style="list-style-type: none"> Maheswar Panda, A. Mishra and P. Shukla, "Effective enhancement of dielectric properties in cold pressed polyvinylidene fluoride/Barium Titanate nanocomposites"SN Applied Sciences01, 230 (2019).

	<ul style="list-style-type: none"> • Maheswar Panda, "Frequency Dependent Scaling behavior of Polyvinylidene fluoride/Metal Composites" Journal of Advanced Dielectrics, 09, 1950010 (2019).
2020	<ul style="list-style-type: none"> • Maheswar Panda, Tuned dielectric and percolation behavior of cold pressed polyvinylidene fluoride nanocomposites caused by filler. Modern Physics Letters B, Under Review (2020). • Maheswar Panda and Asmita Trivedi, Ferroelectric and Piezoelectric Properties of Cold Pressed Polyvinylidene fluoride/Barium Titanate Nano-composites, Ferroelectrics, Under Review (2020). • 3. Maheswar Panda, Percolative Phase Transitions of Polymer-metal composites, JAP, Under Review (2020).
National Seminar/Conference/Workshops (Attended) – 2013 onwards	
	<p>Invited Talks/International Conference Presentations/Workshops:</p> <ul style="list-style-type: none"> • M. Panda "Physics and Application of Polymer Dielectrics based on Polymer-metal Composites" YAA presentation at 63rd DAE SSPS-2018, 18th Dec-22nd Dec 2018, GJUST, Hisar, Haryana, India. • M. Panda "Physics and Application of Percolative Polymer-metal Composites" Presented at International winter school-2018, 03rd Dec-07th Dec. 2018, JNCASR, Bengaluru. • M. Panda "Ferroelectric Polymer Dielectrics: Emerging Materials for Future Electrostatic Energy Storage Applications" YAA presentation at ICC-2017, 23.11.2017 to 24.11.2017, GCE, Bikaner, Rajasthan, India. • M. Panda, Attended the STEM teacher workshop on research based pedagogical tools (RBPT-2017) at Pt. Ravishankar Shukla University, Raipur, India during 6th October to 9th October 2017 and sponsored by MHRD under PMMMNMTT. • M. Panda, Jitendra Kurmi and sunilsoni "A Comparative Study of Visco-Elastic Properties of non-Polar and Polar Polymer Dielectrics" Oral presentation at ICMS-2017, (16th -18th Feb, 2017), Tripura University, Agartala. • M. Panda, Invited talk on "Impedance Spectroscopy: A Novel Technique" on 17.12.2015 at Interdisciplinary Refresher course on "Instrumental Analytical methods and Interpretation" at UGC-HRDC, Dr. H.S. Gour university, Sagar, India. • M. Panda, Invited talk on "Phase Transition in Polymer/Metal nano-composites Across the Percolation Threshold" at ICNPM, 13th -15th November 2015, International and Inter university centre for nanoscience and nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India. • M. Panda, Chairada session in the International conference, ICNPM-2015, 13th -15th November, 2015, International and Inter university centre for nanoscience and nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India. • M. Panda, V. Srinivas and A.K. Thakur "Non-universal scaling behavior of polymer-metal nanocomposites across the percolation threshold" Presented at the International conference on nanomaterial and nanotechnology (ICNANO-2011), (18th-21st) December, 2011, University of Delhi, New Delhi, India. • M. Panda, A. K. Thakur and V. Srinivas. "Thermal effects on the Percolative behavior of polyvinylidene fluoride/nickel composites" Presented in International conference on materials for advanced technologies (ICMAT-2009) 28th June -3rd July 2009, Suntech Singapore International Convention and Exhibition centre, Singapore. • M. Panda, V. Srinivas and A. K. Thakur, "Dielectric and Magnetic properties of polyvinylidene fluoride/nickel nano composites" Presented in International conference on Magnetic materials and their applications for 21st Century (MMA 21ST-2008) October 21-23, 2008, NPL, New Delhi, India. • M. Panda, V. Adyam, V. Srinivas and A. K. Thakur. "Synthesis and Characterization of Ni-PVDF Nano-Composites" Presented in International conference on Magnetic materials (ICMM-2007) December 11-16, 2007, Kolkata, India. • M. Panda, Attended the workshop on advances in multifunctional materials-2006, December 18-22, 2006, IIT, Kharagpur, India. <p>[C] National Conference Presentations:</p> <ul style="list-style-type: none"> • M. Panda, Worked as a member in the National symposium on Horizons of light in molecules, materials and Daily life, 18-19 Dec. 2015, Dr. H.S. Gour university, Sagar, India. • M. Panda, Attended the Workshop on NMR by JEOL and Department of Physics & Chemistry on 16th Feb 2014 at Dr. H. S. Gour Central University, Sagar, M.P., India. • M. Panda, Attended the training Workshop on the soft ware Turnitin on 9th May 2014 held at Dr. H. S. Gour Central University, Sagar, M.P., India. • M. Panda, Attended the Seminar on Springer user awareness program by Springer on 18th Dec 2013 at Dr. H. S. 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	<ul style="list-style-type: none"> Participated in the 52nd orientation Programme at ASC, Dr. H.S. Gour University, Sagar of four weeks duration from 10.11.2014 to 07.12. 2014. Participated in the Interdisciplinary Refresher course on "Instrumental Analytical methods and Interpretation" at UGC-HRDC, Dr. H.S. Gour university, Sagar of three weeks duration from 30.11.2015 to 20.12. 2015. <p>3. ARPIT on Fundamental of outcome based curriculum in engineering education, 2019 from SWAYAM, NITTTR, Bhopal and chenai.</p>
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	<p>Invited Talks/International Conference Presentations/Workshops:</p> <ul style="list-style-type: none"> M. Panda "Physics and Application of Polymer Dielectrics based on Polymer-metal Composites" YAA presentation at 63rd DAE SSPS-2018, 18th Dec-22nd Dec 2018, GJUST, Hisar, Haryana, India. M. Panda "Physics and Application of Percolative Polymer-metal Composites" Presented at International winter school-2018, 03rd Dec-07th Dec. 2018, JNCASR, Bengaluru. M. Panda "Ferroelectric Polymer Dielectrics: Emerging Materials for Future Electrostatic Energy Storage Applications" YAA presentation at ICC-2017, 23.11.2017 to 24.11.2017, GCE, Bikaner, Rajasthan, India. M. Panda, Attended the STEM teacher workshop on research based pedagogical tools (RBPT-2017) at Pt. Ravishankar Shukla University, Raipur, India during 6th October to 9th October 2017 and sponsored by MHRD under PMMMNMTT. M. 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	<ul style="list-style-type: none"> Participated in the Interdisciplinary Refresher course on “Instrumental Analytical methods and Interpretation” at UGC-HRDC, Dr. H.S. Gour university, Sagar of three weeks duration from 30.11.2015 to 20.12.2015. ARPIT [2 credits] on Fundamental of outcome based curriculum in engineering education, 2019 from SWAYAM, NITTTR, Bhopal and chenai.
Invited Lectures delivered (<i>Outside University</i>) with title, date and place – 2013 onwards:	
	<ul style="list-style-type: none"> M. Panda“Physics and Application of Polymer Dielectrics based on Polymer-metal Composites” YAA presentation at 63rd DAE SSPS-2018, 18th Dec-22nd Dec 2018, GJUST, Hisar, Haryana, India. M. Panda“Physics and Application of Percolative Polymer-metal Composites” Presented at International winter school-2018, 03rd Dec-07th Dec. 2018, JNCASR, Bengaluru. M. Panda“Ferroelectric Polymer Dielectrics: Emerging Materials for Future Electrostatic Energy Storage Applications” YAA presentation at ICC-2017, 23.11.2017 to 24.11.2017, GCE, Bikaner, Rajasthan, India. M. Panda, Attended the STEM teacher workshop on research based pedagogical tools (RBPT-2017) at Pt. Ravishankar Shukla University, Raipur, India during 6th October to 9th October 2017 and sponsored by MHRD under PMMMNMTT. M. Panda, Jitendra Kurmi and sunilsoni "A Comparative Study of Visco-Elastic Properties of non-Polar and Polar Polymer Dielectrics" Oral presentation at ICMS-2017,(16th -18th Feb, 2017), TripuraUniversity, Agartala.
No. of Foreign Visits : 01	
	International conference on materials for advanced technologies (ICMAT-2009) 28 th June -3 rd July 2009, Suntech Singapore International Convention and Exhibition centre, Singapore.
Memberships in Academic Bodies:	
	<ul style="list-style-type: none"> Life member of Indian Physics Association:GEN/LM/13068 Life member of Indian Association of Physics Teachers: 10477, L 6706
Other Academic Achievements :	
	(i) Reviewer of the Journal(s) (With details of the journal(s) and duration)
	<ul style="list-style-type: none"> Fractals Journal of Physics and chemistry of solids Diamond and Related materials