

FACULTY PROFILE



Name	Dr Sandhya Patel					Date of Birth: 07-07-1972				
Designation	AssistantProfessor				Date of holding Present Post			21-06-2007		
Name of the Department and School	Department of Physics					School of Mathematical and Physical Science				
Contact Details	Email : sandhyaparipalak@gmail.com					Mobile: 9406538518				
Additional Responsibility in the university, if any	Member of Internal Complaint Committee, Scrutinizer in Examination, Exam Coordinator, Deputy Proctor, Hostel Warden for six months.									
Educational Qualifications (UG onwards)	B.Sc.; M.Sc; B.Ed.; Ph.D.									
Research Area/Specialization	Material Science									
Awards/ Honors / Fellowship Conferred (With details thereof)										
Summary of Publications (Number only)	Research Papers	05	Books		Chapter in Books		Seminars/ Conferences Proceedings	01	Projects	
Best Five Research Publications	1. 2D layered transition metal dichalcogenides (MoS2): Synthesis, applications and theoretical aspects Arun Kumar Singh, P. Kumar, D.J. Late, Ashok Kumar, S. Patel, Jai Singh, <i>Applied Materials Today</i> 13 (2018) 242-270. • "Synthesis and Characterization of Magnesium ion conductivity in PVDF based Nanocomposite Polymer Electrolytes disperse with MgO", Nidhi, S. Patel and R Kumar, <i>Journal of Alloys & Compounds</i> , 789, 2019, 6-14. [2019 IF 4.17].									

PUBLICATIONS 2013 onwards:

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

2013	• Piezo and Pyroelectric detector and higher power laser applications, Sandhya Desai, Mukesh Kumar, Sandhya Patel Vol. 3(2), Feb 2013, 214 – 222, JSI ISSN : 2229 – 5836.
2015	• Structural, Transport and dielectric property studies of Ca _{0.98} Nd _{0.06} Sn _{0.6} Zr _{0.4} O ₃ ceramics, Purnima Rawat, Sandhya Patel , Ranveer Kumar, Harsha Dehariya, <i>Research Journal (Madhya Bharti)</i> Vol. 59 Jan. 2015 ISSN 0972-7434.
2016	• Synthesis and Dielectric behaviors of (1-x)(Al _{0.5} Nb _{0.5})O ₂ -(x)(Ti _{0.9} Sn _{0.1})O ₂ Ceramics (where x = 0.25, 0.75) Purnima Rawat, Sandhya Patel and Ranveer Kumar, <i>Madhya Bharti Journal of Science</i> 2016, Vol 60(2): 60-64 ISSN 0972-7434.

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

2018	• 2D layered transition metal dichalcogenides (MoS ₂): Synthesis, applications and theoretical aspects, Arun Kumar Singh, P. Kumar, D.J. Late, Ashok Kumar, S. Patel , Jai Singh, <i>Applied Materials Today</i> 13 (2018) 242-270.
2019	• "Synthesis and Characterization of Magnesium ion conductivity in PVDF based Nanocomposite Polymer Electrolytes disperse with MgO", Nidhi, S. Patel and R Kumar, <i>Journal of Alloys & Compounds</i> , 789, 2019, 6-14. [2019 IF 4.17].

National Seminar/Conference/Workshops (Attended) – 2013 onwards

2013	• Synthesis and electrical properties studies on new silver ion conducting compound, International Conference on Global Innovations in Sciences & Management (IC-GISM 20013) Swami Vivekanand University, Sagar (M.P.) India, February 27 – 28, 2013.
2015	• Effect of Green house gases on Environment, National Seminar on "Recent Advances and Challenges in Biological Sciences" Department of Zoology, Dr. H.S. Gour University, Sagar (M.P.), 17 th March 2015
2015	• Emerging Frontiers and Challengers in Nanotechnology and Drug Design (EFCNDD-2015), National Seminar in SERB-DST, ICMR and MPCST, Department of Pharmaceutical Sciences, Dr. H.S. Gour Vishwavidyalaya, March 1, 2015.
2017	• Study of Nanocomposite Polymer Electrolytes for electrochemical device application, National Conference on "Energy for Sustainable Development", Dr. Harisingh Gour Vishwavidyalaya, Sagar, (M.P.), March 23 – 24, 2017.

International Seminar/Conference/Workshops (Attended) – 2013 onwards

2015	• Surface Morphology and Optical Properties of Pulsed Laser Deposited (PLD) ZnO films on Si and SiO ₂ Substrates, 3 rd International Conference on "Recent Trend in Science and Technology". Swami Vivekanand University, Sagar (M.P.) India, 27 February, 2015.
2017	• Effect of Nanoparticles on Thermal and Electrical Properties of PEG-based Solid Polymer Electrolytes, International Conference on "Interface of Physical, Chemical and Biological Sciences", Dr. Harisingh Gour Vishwavidyalaya, Sagar, (M.P.),

	13 th January, 2017.
Research Papers in Proceedings (International Seminar/Conference/Workshops) – 2013 onwards	
2019	<ul style="list-style-type: none"> “PVDF-HFP based nanocomposite polymer electrolytes for energy storage devices dispersed with various nano-fillers”, Nidhi, S. Patel and R. Kumar, American Institute of Physics Conference Proceeding ICC-2019, Bikaner Rajasthan (Accepted).
Invited Lectures delivered (<i>Outside University</i>) with title, date and place:	
2016	<ul style="list-style-type: none"> Synthesis of Cadmium Telluride thin films and its optical properties, 4th International Conference “Challenges in Environmental Science and Technology” (IC-CEST-2016), Swami Vivekanand University, Sagar (M.P.) India, 28th Feb, 2016.
2019	<ul style="list-style-type: none"> Magnesium ion conducting Nano composite polymer electrolytes for Electrochemical device application, 7th International Conference, Wallop of Globalization in Engg-Medi-Sci-Agr-Pharm-Tech Research, Swami Vivekanand University, Sagar (M.P.), February 27-28, 2019.
2020	<ul style="list-style-type: none"> Role of Physics in Everyday Life, National Seminar, Department of Physics, Swami Vivekanand University Sagar, January 28, 2020.
No. of Ph.D. Scholars working:	04
Memberships in Academic Bodies:	
<ul style="list-style-type: none"> Life Membership of All India Congress Association from 2009 till date. 	<ul style="list-style-type: none"> Life Membership Madhya Bharti, Sagar from 2012 till date.
<ul style="list-style-type: none"> Life Member of Laser and Spectroscopy Society of India 	<ul style="list-style-type: none">
Other Academic Achievements :	
(i) Membership of the Board of Studies/School Board / Academic Council/ Executive Council (Within/ outside the university)	
<ul style="list-style-type: none"> Member of Academic Council 	
<ul style="list-style-type: none"> Member of Board of Studies for Department of Physics 	
<ul style="list-style-type: none"> Member of School Board for the School of Mathematical and Physical Sciences 	