




JSS MAHAVIDYAPEETHA

JSS ACADEMY OF TECHNICAL EDUCATION

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Name of the Department: Engineering Physics.

Name of the Teaching Staff	Dr. ABHILASHA SINGH		
Designation	ASSISTANT PROFESSOR		
Department	PHYSICS		
Date of Joining the Institution	05-11-2016		
Qualification with Class / Grade	M.Sc., Ph.D.	PG: M.Sc., Nuclear Physics	Ph. D. Condensed Matter Physics
Total Experience in Years	Teaching : 1.5 Years	Industry - Nil	Research : 5 Years
Papers Published in Journals	International: 05	National:	
Papers Presented in Conferences / Symposium	International: 01	National:	
PhD Guide? Give field & University			
PhDs / Projects Guided	No. of Ph.D's Awarded: Nil No. Ph.D's Guiding : Nil	Projects at Masters Level: Nil	
Books Published / IPRs/ Patents	Nil		
Professional Memberships			
Consultancy Activities	--		
Awards	Received S.R.F by Department of Science and Technology		
Grants fetched			
Interaction with Professional Institutions			

Details of Publications:

Journals: International

Sl. No	Name of Co-Author	Title of Paper	Name of the Journal	Publisher	Publication citation ISSN, ISBN, Vol. No., Issue, pp
1	Abhilasha Singh and Shri Singh	Application of a generalized thermodynamic model to study of the ferroelectric properties of DOBAMBC and DOBA-1-MPC	Liquid Crystals	Taylor and Francis	ISSN : 1366-5855 Volume No. : 35 Issue : 6 Month & Year : June 2008 Page Nos. : 727-736
2	Shri Singh, Avanish Singh Parmar and Abhilasha Singh	<i>Phase transitions in ferroelectric liquid Crystals (Review Article)</i>	Phase Transitions	Taylor and Francis	ISSN : 1029-0338 Volume No. : 81 Issue : 9 Month & Year : September 2008 Page Nos. : 815-855
3	Abhilasha Singh and Shri Singh	Effect of pressure on spontaneous polarization and tilt angle in ferroelectric liquid crystal DOBAMBC	International Journal of Modern Physics B	World Scientific	Volume No. : 23 Issue : 8 Month & Year : 2009 Page Nos. : 2139-2148

4	Abhilasha Singh and Shri Singh	Thermodynamic model for the description of Sm C* and Sm A – Sm C* phase transition properties.	Phase Transitions	Taylor and Francis	ISSN : 1029–0338 Volume No. :83 Issue :3 Month & Year :March2010 Page Nos. : 205–222
5	Abhilasha Singh and Shri Singh	Thermodynamic model for the electro-optical and structural properties of Sm C_A* phase in antiferroelectric liquid crystal MHPOBC	Journal of Materials Chemistry	Royal Society of Chemistry	ISSN : Volume No. :21 Issue : Month & Year :October 2010 Page Nos. : 1991–1996