

RESUME

Name: Dr. S. A. Gaikwad
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Email: israelgaik444@gmail.com, sagaikwad3@gmail.com
Designation: Associate Professor in Department of Electronic Science.
Date of Birth: 04/07/1963
Institution: J.D.M.V. P Samaj's S. S. Patil Arts, T. T. Salunkhe Commerce and G. R. Pandit Science College, Jalgaon 425001 (M.S.)
Category: Open
Academic Qualification: M Sc, M.Phil. Ph. D. (Electronics)
Topic of Ph.D.: Computer Aided Design and Analysis of GaN/AlGaN Hetero-Structure Semiconductor Lasers.
Place of Research: Department of Electronics, North Maharashtra University, Jalgaon (M.S.)
Topic of M.Phil.: Development of PC based Tactile Sensing System
Place of Research: Department of Electronic Science, Pune University, Pune

1. Educational Qualifications:

Examination	University/ Board	Month & Year of Passing	Subjects SPL/Gen		Marks		% of Marks	Class/ Div/ Grade awarded
			Prin.	Sub	Obtained	Out of		
Matriculation SSC/SSLC	Pune	1978	Science, Mathe- matics, etc		503	700	71.85	I st
Higher Secondary/Pre University/ Intermediate	Pune	1980	Physics Mathematics Chemistry		338	600	56.30	II ^{end}
Bachelor's Degree	Pune	1983	Physics		2596	3800	68.31	I st
Master's Degree	Pune	1985	Physics (Electro)		1200	2000	60.00	I st
M.Phil.	Pune	1998	Electronics		NA	NA	A grade	A grade
Ph.D.	NMU, Jalgaon	Feb 2008	Electronics		-	-	-	-

2. Teaching Experience:

a) Under Graduate: **37 years**

Institution	Position Held	Nature of Appointment	Subject		Period of Appointment with dates
			Special	General	
College of Engg. And Technology Bambhori	Lecturer in Electronics Engg.	Full time, UGC scale	Electronics	Physics	June 1985 to 87
JDMVP College, Jalgaon.	Lecturer in Physics/Electronics	Full time, UGC scale, permanent	Electronics	Physics	June 1987 to 30 April 2013
JDMVP ASC College, Varangaon	Associate Professor	Full time, UGC scale, permanent	Electronics	Physics	May 2013 to 10 th April 2018
JDMVP College, Jalgaon.	Associate Professor	Full time, UGC scale, permanent	Electronics	Physics	11 th April 2018 onwards till this date

b) Post Graduate: **9 years**

Institution	Position Held	Nature of Appointment	Subject		Period of Appointment with dates
			Special	General	
JDMVP College, Jalgaon	Lecturer in Physics	Contributory	Physics	Electronics	1992-94
University of Pune	Teacher Fellow	FIP fellowship	Electronics	Electronics	1996-97
Dept Electronics NMU, Jalgaon	Teacher Fellow	FIP fellowship	Electronics	Electronics	2004-06
JDMVP College, Jalgaon	PG teacher for MSc Physics	Permanent	Physics	Physics	2018-2022
JDMVP College, Jalgaon	KBCNMU recognized guide	Permanent	Electronics	-	From 26.10.2019 onwards

c) Administrative Experience: **10 years**

Institution	Position Held	Nature of Appointment	Period of Appointment with dates
JDMVP College, Jalgaon	Vice-Principal	Administrative	July 2010 to May 2013
JDMVP College, Jalgaon	HoD, Electronics Deptt.	Academic and administrative	22.03.2010 to 30.04.2013
JDMVP College, Varangaon	HoD, Physics Deptt.	Academic and administrative	23.03.2015 to 10.04.2018
JDMVP College, Jalgaon	IQAC Coordinator	Academic and administrative	10.04.2018 to 31.08.2021
JDMVP College, Jalgaon	Vice-Principal	Administrative	July 2019 onwards till this date
KBCNMU Jalgaon	BoS Member	Electronics and Instrumentation BoS	July 2019 onwards till this date
KBCNMU Jalgaon	Jalgaon District Coordinator	AVISHKAR 2019	Sept 2019 to Dec 2019

3. No. of Projects and Grants sanctioned by various Funding Agencies, if any

Sr. No	Year	Name of Funding Agencies	Whether Principal Investigator or Co-Investigator	Amount of Project in Rs.
1	2002-04	University Grants Commission, Delhi	Principal	50,000/-
		Status: Completed.		
2	2004-06	University Grants Commission, Delhi	Principal	20,000/-
		Status: Completed		
3	2009-10	University Grants Commission, Delhi	Principal	7,00,000/-
		Status: Completed		
4	2009-10	University Grants Commission, Delhi	Principal	75,000/-
		Status: Completed (Seminar)		
			Total Amount (Rs.)	8,45,000/-

4. No. of Publications: Attached List also shows the details of International and National conferences participated for paper presentation.

Publications	Published	Communicated	Under Preparation
Books Article	02 (Seminar Proceedings)	NIL	NIL
Journals	15	NIL	1
Inter National conferences	12	NIL	NIL
National conferences	10	NIL	NIL
State Level Conferences	05	NIL	NIL
University Level Conferen	04	NIL	NIL
Reviews	01	NIL	NIL

5. Papers Published in National and International **Journals**

Sr. No	Title of Research paper	Name of journal	ISSN No	Volume, issue and pages
1.	Effect of deposition temperature on the chemical properties of thermally deposited Silicon Nitride Films.	Journal of Optical Materials	0925-3467	vol. 27, issue 4, Jan 2005 Pg. No. 663-670
2.	Temperature dependent Analysis of Refractive index, Band gap and Recombination Coefficient in Nitride Semiconductor Lasers.	Indian Journal of Pure and Applied Physics	0019-5596	Vol. 45, No.3 March 2007, Pg. No. 238-242
3.	Theoretical analysis of effect of temperature on threshold parameters and field intensity in GaN material based hetero-structure	Bulletin of Material Science, Indian Academy of Sciences	0250-4707	Vol.30, No. 3, June 2007 Pg. No.255-261
4.	Modeling and Simulation of GaN/AlGa _N Laser and Temperature Dependent Analysis of Physical Parameters	IEEE Xplore DOI: 10.1109/NUSOD.2007.4349015	2158-3234 Print ISBN: 978-1-4244-1431-4	October 2007
5.	Numerical Simulation of Potential distribution in GaN/AlGa _N double hetero-structure laser diode.	Acta Ciencia Indica Physics	0253-732X	September 2008 Vol. XXXIII P. No.1, 021 Page#21-25
6.	Near field intensity and mode confinement analysis in GaN based blue laser diode at 507 nm wavelength	Journal of Laser Applications	1042-346X	DOI: https://doi.org/10.2351/1.5060366

7.	Temperature dependent analysis of refractive index, band gap in AlGa _N and InGa _N based Hetero-structures	Journal of Research and Development	2230-9578	Vol 9(issue 3) May July 2019 Page# 13-16
8.	Role of Languages in culture preservation of Nation	International Journal of All Research Writings.	2582-1008	Volume -1 Issue-6 2019, Page# 1-3 IJARW 1088
9.	Temperature Dependence of Effective Band gap, Refractive Index, Dielectric Function and Model Parameters C(x,T), A(x,T) of Al _x Ga _{1-x} N	Journal of Emerging Technologies	2349-5162	Volume 6 Issue 6 June 2019 Page # 272-275
10.	Simulator for Solving Poisson's Equation in GaN/AlGa _N Double Hetero-structure Laser Diode	Journal of Emerging Technologies	2349-5162	Volume 6 Issue 6 June 2019, Page # 31-33
11.	Ethnography: A New Avenue in Cultural Studies Page # 698-700	Journal of Emerging Technologies	2349-5162	Volume 6 Issue 6 June 2019
12.	Field Intensity Distribution in Hetero-structure Laser	International Journal of Advanced Multi-disciplinary Scientific Research	2581-4281	Volume2Issue 11 November 2019 Page# 19-28
13	Impact of ICT in reforms of University Exam systems	International Journal of Advanced Multi-disciplinary Scientific Research	2581-4281	Volume 2 Issue 9 September 2019 Page# 60-66
14	Quest For Identity In The Fiction Of Anita Desai.	International Journal Of Engineering Development And Research	2321-9939	https://www.ijedr.org/archive.php?vol=7&issue=4 Page# 538-540
15	Recent Trends in GIS, GPS and RS: A Review	Research Journey International e-journal	E-ISSN 2348-7143	Issue-291A, April 2022, Page # 148-150

6. Papers presented in National/International **Conferences and their Proceedings**

Sr. No.	Title of the Invited lecture/paper presentations/ full paper in Conference Proceedings	Title of Conference/seminar	Organized by	Level International/National/State / University
01	Modelling & Simulation of GaN/AlGa _N Diode Laser	International Conference on Mathematical Modelling and Optimization Techniques in Science and Engineering MMOTSE 2013	SSBT College of Engineering and Technology Jalgaon	International
02	Design and Optimization of Parallel Waveguide Directional Coupler Based Optical Demultiplexer.	Proc. Of Int. conference on Broad Band Optical Fiber Communication Technology, BBOFCT – 2001	KBCNMU, Jalgaon	International
03	Characterization of Optical Waveguides.	Proc. Of Int. conference on Broad Band Optical Fiber Communication Technology, BBOFCT – 2001	KBCNMU, Jalgaon	International

04	Study of Optical Characteristics of Bio-membrane for designing and fabrication of Biosensors for Bio-medical applications.	Proc. Of International conference on Broad Band Optical Fiber Communication Technology, BBOFCT – 2001)	KBCNMU, Jalgaon	International
05	Modal analysis and field confinement in Gallium Nitride based Laser Diode at 375 nanometer wavelength	Proceeding of International Conference on Optoelectronics Technology, ICOT – 2004	KBCNMU, Jalgaon	International
06	Field intensity analysis in Gallium Nitride based channel substrate planar Blue Laser Diode	Proceeding of International Conference on Optoelectronic Technology, ICOT – 2004	KBCNMU, Jalgaon	International
07	Impact of ICT in reforms of University Exam systems [7-8 March 2014]	Interdisciplinary International conference on Relevance of HE for development of Human Resources	Sunits Institute of English Language, Literature and Research Jalgaon.	International
08	Analysis of Threshold Parameters for GaN/AlGaN Hetero-structure Lasers [20-21 February, 2015]	Presented in 2 nd Interdisciplinary International Conference on "Role of Higher Education in Creation of Knowledge Society"	Sunits Institute of English Language, Literature and Research Jalgaon.	International
09	Development of PC based Tactile Sensing System	4 th National Seminar on Physics and Technology of Sensors	S P University Anand Gujrat	National
10	Development of Fiber Optic Proximity Sensor Matrix for Tactile Imaging	4 th National Seminar on Physics and Technology of Sensors	S P University Anand Gujrat	National
11	Tactile Sensing system for object Manipulation	Symposium on Advances in Nuclear and allied Instrumentation SANAI	Bhabha Atomic Research Center, Trombay Mumbai	State
12	Role of Administration in Education systems of India	Presented in National Conference on Academic and Administrative Audit 4-5 Sept 2015	NAAC Bangalore & ShriMuktanand College, Gangapur Dist Aurangabad	National
13	Numerical Analysis of Potential Distribution in GaN/AlGaN Laser Diode	Presented in C.V. Raman memorial Seminar-2005 [RMS-2005] Feb 2005	KBCNMU, Jalgaon	University
14	Optimization of structural and material parameters of Gallium Nitride based Quantum Well laser diode at 375 nm wave-lengths	Presented in C.V. Raman memorial Seminar-2005 [RMS-2005] Feb 2005	KBCNMU, Jalgaon	University
15	Analysis of Interface Phonon modes in GaN/ZnO hetero-structure for inter sub band lasers	Presented in Fifth DAE-BRNS National Laser Symposium (NLS – 5), Dec 2005	VIT, Vellore	National
16	Modeling and Simulation of GaN/AlGaN DH Semiconductor Lasers	Presented in C.V. Raman memorial Seminar-2006 [RMS-2006] Feb 2006	KBCNMU, Jalgaon	University
17	Personality Development as A Key Aspect of Education System To Produce Skilled Human Resource For Building A Strong Nation	State Level Seminar on Integrated Personality Development and Character Building, 07.02.2010	Department of Electronics, JDMVP ASC College, Jalgaon	State
18	Education in values for better society	State Level Seminar on Integrated Personality Development and Character Building,	Department of Electronics, JDMVP ASC College, Jalgaon	State

		07.02.2010		
19	New Trends in Interdisciplinary Research	National Seminar on Quality Sustenance and Enhancement in Higher Education 24-25 Mar 2010	NAAC Bangalore and College of Education Dhule	National
20	Medicinal Applications of Aloe Vera	State Level Conference on Bio-diversity and conservation of Medicinal Plants 06.02.2010	UGC and Department of Botany, JDMVP ASC College, Jalgaon	State
21	Medicinal Applications of Neem	State Level Conference on Bio-diversity and conservation of Medicinal Plants 06.02.2010	UGC and Department of Botany, JDMVP ASC College, Jalgaon	State
22	Role of HE for sustainable Development in India	Presented National symposium on traditional Indian knowledge: Education and Research 21 August 2019	Bhartiya Vichar Munch and KBCNMU Jalgaon	National
23	District Level Coordinator	AVISHKAR 2017	KBCNMU Jalgaon	University
24	Temperature dependence of Effective band gap, Refractive index, Dielectric function and Model parameters $C(x,T)$, $A(x,T)$ of $Al_xGa_{1-x}N$	Presented 7 th International conference on Opto-electronics, Fiber Optics and Photonics [Photonics 2004, 9-11 Dec, 2004]	Cochin University of Science and Technology, Cochin	International
25	Simulator for solving Poisson's equation in GaN/AlGaIn double hetero-structure laser diode	Presented in Eighth International Conference on Opto-electronics, Fiber Optics and Photonics [Photonics-2006]	University of Hyderabad, Hyderabad	International
26	Estimation of electron and current density in GaN quantum well using Schrödinger model	Presented in Eighth International Conference on Opto-electronics, Fiber Optics and Photonics [Photonics-2006]	University of Hyderabad, Hyderabad	International
27	Modeling of GaN Physical Parameters	Presented in Fourth DAE-BRNS National Laser Symposium (NLS – 4), Jan 2005	IIT Kharagpur	National
28	Role of ICT in Libraries	UGC Sponsored National Seminar on Impact of Information Technology on College Libraries	JDMVP Samaj's Arts, Commerce and Science College Jalgaon	National
29	New Trends in Interdisciplinary Research [24-25 March 2010]	National Seminar on Quality Sustenance & Enhancement in Teacher Education	NAAC Bangalore and College of Education Dhule	National
30	New Education Policy	National Seminar on "National Education Policy 2019"	Akhil Bhartiya Shaikshik Mahasangh and KBCNMU, Jalgaon	National

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