



ZAKIR HUSAIN DELHI COLLEGE

(University of Delhi)

Faculty Details

(Please Fill the form and Email it to website@zh.du.ac.in)

Title	DR.	First Name	PARVESH	Last Name	--	Photograph
Designation	Assistant PROFESSOR					
Address	BH-449, SHALIMAR BAGH(EAST) DELHI-110088					
Phone Number	Office	011-23233420				
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	Mobile	9899371432				
Email Id	parveshgangwani@rediffmail.com					
Web Page						
Educational Qualification						
Degree		Institution		Year		
B.Sc.(H) Electronics		Delhi University		1999		
M.Sc. Electronics		Delhi University		2001		
Ph.D. in Electronic Science		Delhi University		2009		
Career Profile						
Assistant professor on Ad hoc basis in Electronics department, Hansraj college, Delhi University from 2003-2005. Assistant Professor from Sept 2007 to May, 2023 on ad hoc basis in Electronics department, ZHDC, DU. Assistant Professor since June 2023 on permanent basis till date in Electronics department, ZHDC, DU, Delhi.						
Administrative Assignments						
<ul style="list-style-type: none">• Member of course drafting committees for various courses in NEP framework 2020.• Member of various question paper settings for different subjects of Electronics for theory examinations in University of Delhi.• Member, Girls association Committee• Member, Freshers' Day Committee.• Member, Admission Committee.• Member Discipline committee in DUSU Elections and Annual Day.• Member, National Service Scheme.• Member of Discipline Committee for DUSU Election.• Member, Convocation Committee.• Member, Annual day Committee.• Member of Criteria based sub-committees for NAAC.						

- President, Electronics society from 2021.

Areas of Interest / Specialization

Modelling and Simulation of HEMT structures
Microelectronics

Subjects Taught

- Analog Electronics I (Electronic circuits), Theory & Practical
- Analog Electronics II (Operational Amplifiers its applications), Practical
- Electrical Technology, Theory & Practical
- Electromagnetics, Theory & Practical
- Electronic Communication, Theory & Practical
- Electrical Machines, Theory & Practical
- Electronic Instrumentation Theory & Practical
- Engineering Mathematics Theory & Practical

Publications Profile

1. 2008, July, "Investigation, analysis and modeling of fully strained and partially relaxed lattice mismatched AlGa_N/Ga_N HEMT" Parvesh Gangwani, Ravneet Kaur, Sujata Pandey, Subhasis Haldar, Mridula Gupta, and R. S. Gupta, Accepted **Super Lattices and Microstructures**, Vol.44, ghpp.781-793.
2. 2007, January, "Polarization Dependent Analysis of AlGa_N/Ga_N HEMT for High Power Applications," Parvesh Gangwani, Sujata Pandey, Subhasis Haldar, Mridula Gupta, and R. S. Gupta, *Solid state Electronics*, Vol. 31, pp. 130-135.
3. 2007, July, "A Compact C-V Model For 120nm AlGa_N/Ga_N HEMT with Modified Field Dependent Mobility for High Frequency Applications," Parvesh Gangwani, Sujata Pandey, Subhasis Haldar, Mridula Gupta, and R. S. Gupta, *Micro Electronics Journal (MEJ)*, Vol. 38, pp. 848-853.

Conference Organization/ Presentations (in the last five years)

1. 2005, "Effect of Temperature on Current Voltage Characteristics of Lattice Mismatched Al_mGa_{1-m}N/Ga_N HEMTs", Parvesh, Sujata Pandey, Subhasis Haldar, Mridula Gupta, and R.S Gupta, Seventeenth Asia Pacific Microwave Conference (APMC-2005), pp.1554-1557, 4th -7th December, Suzhou, China.
2. 2007, "Two-Dimensional Simulation of C-V Characteristics of Deep Submicron Al_mGa_{1-m}N/Ga_N HEMT for Microwave Applications," Parvesh Gangwani, Ravneet Kaur, Sujata Pandey, Subhasis Haldar, Mridula Gupta, and R. S. Gupta, 11th International Symposium on. Microwave and Optical Technology (ISMOT 2007), pp. 33-35, 17th-21st December, Villa Mondragone, Monte Porzio Catone, Italy.

3. 2007, "2-Dimensional Simulation and Characterization of Deep Submicron AlGa_N/Ga_N HEMTs for High Frequency Applications," International Semiconductor Device Research Symposium (ISDRS 2007), pp.1892-1893, 12th -14th December, University of Maryland, USA.
4. 2007, "Modeling of nitride based Hetrojunction Transistors for RF Applications," Parvesh Gangwani, Ravneet Kaur, Sujata Pandey, Subhasis Haldar, Mridula Gupta, and R. S. Gupta, Mini-Colloquia on Compact Modeling of Advance MOSFET Structures and Mixed mode Applications, pp.35-36, 5th -6th January, New Delhi, India.
5. 2007, "Temperature Dependent Analytical Model of AlGa_N/Ga_N HEMT," Parvesh Gangwani, Ravneet Kaur, Sujata Pandey, Subhasis Haldar, Mridula Gupta, and R. S. Gupta, Mini-Colloquia on Compact Modeling of Advance MOSFET Structures and Mixed mode Applications, pp.37-38, 5th -6th January, New Delhi, India.
6. 2007, "Modeling issues of Heterojunction transistor for very large scale integrated (VLSI) applications," Parvesh Gangwani, Sujata Pandey, Subhasis Haldar, Mridula Gupta, and R. S. Gupta, Indian microelectronics Society Conference 2007 Theme: Trends in VLSI and Embedded System, pp. 52-55, 17th-18th August, Panjab Engineering College, Chandigarh, India.
7. 2008, "High Temperature Performance of AlGa_N/Ga_N HEMT", Parvesh Gangwani, Sujata Pandey, Subhasis Haldar, Mridula Gupta, and R. S. Gupta, MATEIT Conference, Deen Dyal Upadhaya College, Delhi University, India.
8. 2008, "Analytical Approach for High Temperature Analysis of AlGa_N/Ga_N HEMT", Parvesh Gangwani, Sujata Pandey, Subhasis Haldar, Mridula Gupta, and R. S. Gupta, Microwave Conference, Jaipur, India.
9. 2008, "A 120nm AlGa_N/Ga_N HEMT with Modified Field Dependent Mobility for Microwave and High-Power Applications" Accepted in Asia Pacific Microwave Conference (APMC) Hong-kong.
10. 2009, "High Temperature Modeling of AlGa_N/Ga_N HEMT for Microwave Power Switching Applications", Parvesh Gangwani, Subhasis Haldar, Mridula Gupta, and R. S. Gupta, International Symposium on Microwave and Optical Technology, pp.517-18, 16th -19th December, New Delhi, India.
11. 2010, Modeling and Simulation of 120nm AlGa_N/Ga_N HEMTs for Microwave Applications" Parvesh Gangwani, Subhasis Haldar, Mridula Gupta and R. S. Gupta, MATEIT Conference, Deen Dyal Upadhayay College, Delhi University, India.

Other Activities

- Participated in Four-week induction program successfully completed for "Faculty in Universities/Colleges/Institutes of Higher Education" from 23 May – 21 June, 2023 and obtained Grade A+. Organized by Teaching learning center Ramanujan College, University of Delhi, sponsored by Ministry of Human Resource Development, Pandit

Madan Mohan Malaviya National Mission on Teachers and Training

- Participated in Two Week Refresher course 6th July2024 to 20 July2024 “Managing Online Classes & Co- creating MOOCS” from Teaching learning center Ramanujan College, University of Delhi, sponsored by Ministry of Human Resource Development, Pandit Madan Mohan Malaviya National Mission on Teachers and Training Two Week Refresher course 28 July2024 to 10 AUG 2024 from Teaching learning center Ramanujan college, University of Delhi.
- Participated in Two Week Interdisciplinary Refresher Course on, “Research Methodology and Data Analysis” from 28th July – 10th August, 2023 organized by Teaching learning center Ramanujan College, University of Delhi, sponsored by Ministry of Human Resource Development, Pandit Madan Mohan Malaviya National Mission on Teachers and Training
- Two Week Interdisciplinary Refresher course two - week Interdisciplinary Refresher Course in “ADVANCED RESEARCH METHODOLOGY” from 22 August – 05 September, 2023 and obtained Grade “A” from Teaching learning center Ramanujan college, University of Delhi.

Signature of Faculty Member