RESUME

Prof. (Dr.) PRADEEP KUMAR SINGH

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SUMMARY

- Ph.D. in Electronics Engineering from IT BHU (presently IIT BHU), Varanasi, Uttar Pradesh, India.
- Worked as Professor and Director of Radha Govind Group of Institutions (RGGI), Meerut, Uttar Pradesh, India.

FUTURE PLAN & AREA OF INTEREST

- To face the challenges in Teaching, Research and Administration.
- To extend the Research activities in the areas like Optical Communication and Networks, Wireless Communication and Networks, Antenna and Wave Propagation, RF and Microwave Engineering.

PROFESSIONAL EXPERIENCE

Administration Experiences:

- Director, Radha Govind Group of Institutions, Meerut, Utter Pradesh; from 26 February 2018 – 01 September 2023.
- Dean of Academics /HOD of ECE, IIMT IET, Meerut, UP.
- Head of the Department of ECE/EIE, Radha Govind Engg. College, Meerut.
- In-charge for the P.G. Programme (M.E. Communication Systems) in the Department of ECE, BSA Crescent Engineering College, Chennai, T.N.

Academics Experiences: around 23 years of Experience in Teaching

1. 09.4.2016 to till 01.09.2023 (7 years & 5 months)

- Professor of Electronics & Communication Engineering, Radha Govind Group of Institutions, Meerut, UP

2. 04 Jan.' 2012 to 09 Sept.'2015 (3 Years & 8 Months)

- Worked as Professor of Electronics & Communication Engineering.
- IIMT Institute of Engineering & Technology, Meerut.

3. 22 Dec.'2008 to 03 Jan.' 2012 (3 Years)

- Worked as Professor of Electronics & Communication Engg.
- Radha Govind Engineering College, Meerut, UP

4. 01 June 2004 to 15 Dec.2008 (4 Years & 7 Months)

- Worked as Professor of Electronics and Communication Engineering, from 16 December 2005 to 15 Dec.2008.
- Worked as Assistant Professor in Electronics and Communication Engineering, from 02 June 2004 to 15 December 2005.
- BSA Crescent Engineering College, Chennai, T.N., India. (Presently Abdur Rahman University).

5. 02 Jan 2002 to 15 April 2004 (2 Years & 4 Months)

- Worked as Assistant Professor in Electronics and Communication.
- Sathyabama Institute of Science & Technology, Deemed University, Chennai, T.N., India.

6. 20 July 2000 to 31 Dec. 2001 (1.5 Years)

- Worked as Assistant Professor in Electronics and Communication Engg.
- Mohamed Sathak Engineering College, Kilakarai,T.N.

EDUCATIONAL PROFILE

- M.TECH. in R.F. & Microwave Engineering [Branch: Electronics & Communication Engineering] (2014-2016):
  Subharti Institute of Technology and Engineering (SITE), Meerut; Swami Vivekanand Subharti University (SVSU), Meerut, U.P., India
  Secured: 74 % (First Division)

  Project Dissertation:
  "*Design & Simulation of a Binomial Array of 4-Elements Rectangular Microstrip Patch Antenna with High Gain for 2.4 GHz Applications"*

- Ph.D. (1995-1999) in Electronics Engineering from IT BHU (Institute of Technology, Banaras Hindu University), Varanasi, Utter Pradesh, India.

  Topic of Research:

  "*Effect of Illumination on Schrodinger Wave Function in Quantum Well in Modulation Doped Field Effect Transistor (MODFET) and Related Device Characteristics"*

  Under the guidance of Prof (Dr.) B.B. Pal, Professor, Department of Electronics Engineering, Institute of Technology, Banaras Hindu University, Varanasi, U.P., India.

- Master of Science (M.Sc. – Physics with Electronics) (1992-1994)
  Udi Pratap Degree College (Autonomous Institute), Varanasi
  Affiliated to Purvanchal University Jaunpur, U.P., India
  Secured: 67 % (First Division)

- Bachelor of Science (B.Sc.- Physics, Maths.) (1989-1992)
  Udai Pratap Degree College (Autonomous Institute), Varanasi
  Affiliated to Purvanchal University Jaunpur, U.P., India
  Secured: 65 % (First Division)

LIST OF PUBLICATIONS

International/National Journals:

1. P.K. Singh and B.B. Pal, "Schrodinger wave function in quantum well in MODFET and related device characteristics under illumination," Proc. of the SPIE - The International Society for Optical Engineering; 1999; Vol. 3666, pp. 252-259.
   Publisher: USA: SPIE-Int. Soc. of Opt. Eng; 1999.

2. P.K. Singh, and B.B. Pal, "Effect of illumination on Schrodinger wave function in quantum well in MODFET and related device characteristics" Solid State Electronics, Vol.43, pp. 1833-1843, 1999.
   Publisher: UK: Elsevier,1999.

3. P.K. Singh, and B.B. Pal, "Effect of signal modulated optical illumination on Schrodinger wave function in quantum well in MODFET and related device characteristics," Journal of Applied Physics; Oct.1, 2000; Vol.88, Issue7, pp. 4325-4333.
   Publisher: USA: AIP, 2000.

4. Rohit Sharma, P.K.Singh, "Cryptographically Secure Encryption Model for RFID Credit Card," Elixir International Journal of Electronics Engineering, ISSN: 2229-712X, Dec.' 2013.

5. Rohit Sharma, Anuj K. Agarwal and P.K.Singh, "Advancement in RFID security by proposed frame work utilizing random bit generator and sensor network", International Journal of Advanced Computer Research, Vol. 05, Issue – 20, Sept.'2015.

6. Rohit Sharma, Anuj K. Agarwal and P.K.Singh, "Transaction Security in RFID Credit Card by Polynomial Arithmetic along with Euclidean Parameters," International Journal of Engg. & Tech., Vol. 7, No. 4, pp.1194-1199, Aug.- Sept.' 2015.

7. Rohit Sharma and P.K.Singh**,** "The Simulation and Analysis of RC4 and 3DES Algorithm for Data Encryption in RFID Credit Card" International Journal of Applied Engineering Research, Vol. 10, No. 2, pp. 4265-4273, 2015.

8. Rohit Sharma, Anuj K. Agarwal and P.K.Singh, "Data Security by (Information XOR Image) along with High Capacity Encryption to Overcome Steganography" International Journal of Computational Intelligence Research, Vol. 11, No. 1, pp. 27-36, 2015.

9. P.K.Singh and Amit Chaudhary, "Design of a binomial array of 4-elements rectangular microstrip patch antenna with high gain for 2.4 GHz applications," International Journal of Engineering Research (IJOER)-Online, ISSN: 2321-7758, Vol. 4, Issue 2, pp. 188-191, March-April 2016.

10. P.K.Singh, "Binomial Array of Three Elements Microstrip Antenna for Sidelobe Reduction" IOSR Journal of Electronics & Communication Engineering (IOSR-JECE), e-ISSN: 2278-2834, p-ISSN: 2278-8735, Vol. 14, Issue 1, Ver. 1 (Jan.-Feb. 2019), pp. 17-21.

11. Arpit Tyagi and P.K.Singh, "An Exploration of Various Routing Protocols for WSN" International Journal of Research in Electronics and Computer Engineering, Vol. 7, Issue 2 (April-June 2019), ISSN:2393-9028 (Print), ISSN: 2348-2281 (Online), PP.2739-2744.

12. Akansha Bhati and P.K.Singh, "Various Routing Protocol for VANET" International Journal of Research in Electronics and Computer Engineering, Vol. 7, Issue 2 (April-June 2019), ISSN:2393-9028 (Print), ISSN: 2348-2281 (Online), PP.2734-2738.

International/National Conferences/Symposium:

13. H. Mitra, P.K. Singh, S. Singh, and B.B. Pal, "Optical effect in MODFET for 1.3-1.6μm Communication systems" in Proc. Of Int. Conf. On Emerging Microelectronics and Inter connection Technology, EMIT-96, Bangalore, pp. 328-330, 12-16 Feb. 1996.

14. P.K. Singh, R.U. Khan, B.B. Pal and J.S. Singh, "Effect of illumination on Schrodinger wave function in quantum well in MODFET," in Proc. Of Conf. On Computer and Devices for Communication, CODEC-98, Calcutta, pp. 600-603, 13-17, Jan. 1998.

15. P.K. Singh, R.U. Khan, B.B. Pal and M.K. Verma, "Effect of illumination on Schrodinger wave function in quantum well in MODFET and related device characteristics" in Proc. Of the Int. Conf. On Optics and Optoelectronics, ICOL-98, Dehradun, pp. 184-187, 9-12 Dec, 1998.

16. P.K. Singh, G.K. Abraham, R.U. Khan, & B.B. Pal , " Effect of illumination on Schrodinger wave function in quantum well in MODFET and related device characteristics" in Proc. Of the Int. Conf. On Fiber Optics and Photonics, IIT Delhi, Photonics-98, Vol.2, pp. 735-738, Dec. 14-18, 1998.

17. J.S. Singh, P.K. Singh**,** R.U. Khan, and B.B. Pal, "A device model for AlGaAs MESFET," Seminar on Semiconductor on Physics and Devices, School of Physics, University of Hydrabad, March 5-7, 1999.

18. J.S. Singh, P.K. Singh, R.U. Khan, and B.B. Pal, "Capacitance model of ion-implantation GaAs MESFET considering Pearson-IV distribution of impurities," Seminar on Semiconductor on Physics and Devices, School of Physics, University of Hydrabad, March 5-7, 1999.

19. J.S. Singh, P.K. Singh, R.U. Khan, and B.B. Pal, "Capacitance model of ion-implanted GaAs MESFET considering rapid thermal annealing," 10th Int. Conf. On Physics of Semiconductor Devices, New Delhi, Dec. 1999.

20. M.K. Verma, P.K. Singh, R.U. Khan and B.B. Pal, "Optical effect on the characteristics of the MSM diode," Seminar on Semiconductor on Physics and Devices, School of Physics, University of Hydrabad, March 5-7, 1999.

21. G.K. Abraham, P.K. Singh, R.U. Khan and B.B. Pal, "Optical effect on the characteristics of the MOSFET," Seminar on Semiconductor on Physics and Devices, School of Physics, University of Hydrabad, March 5-7, 1999.

22. S. Ramamoorthy, V. Kannan, P.K. Singh, and D. Madhavan, "Band pass filter response of amplified fiber optics recirculating delay lines," Proc. Of National Conf. On Communication & Networking, NCCN-2003, 26-28 Feb. 2003, SRM Deemed University Chennai, T.N.

23. V.Jayaprakas, P.K.Singh, and N.Tulasiraman, "Energy Monitoring, Control and Management using GSM MODEM," Proc. of National Conference on Digital Convergence, R.M.K. Engineering College, Tiruvallure, TN, 12-13 May 2006.

24. E.N.Ganesh, P.K.Singh and Lal Kishore, "Simulation of Silicon Nanowire FETs, Carbon Nanotube FETs & Comparison with Double Gate Dielectric Silicon MOSFET," Proceedings of VDAT 2006, 10th IEEE VLSI Design & Test Symposium, Aug. 9-12, 2006, International Centre, GOA, India.

25. E.N.Ganesh, P.K.Singh and Lal Kishore, "Study and Characterization of GaAs & InP devices for Nanoapplications," Proceedings of VDAT 2006, 10th IEEE VLSI Design & Test Symposium, Aug. 9-12, 2006, International Centre, GOA, India.

WORKSHOPS/SEMINAR ATTENDED/ORGANIZED

- Attended Seminar on "Direct to Home Broadcast" on 9th July 2004, organized by Broadcast Engineering Society (INDIA), Chennai Chapter.
- Attended Workshop on VLSI/Nano-Technology/Wireless Communication at Tata Consultancy Services, Sholinganullur, Chennai, organized by IEEE, Madras section, Dec. 2002.

- Attended Workshop on "Telecommunication and Information Technology" on 7.12.2007, organized by Falcon Electro-TEK PVT-LTD.

- Organized Workshop on "Recent trends in photonic technologies and sensors" March 12th & 13th, 2018 at Radha Govind Group of Institutions, Meerut.

- Attended "Executive Leadership Program" offered by the Art of Living from 12 July to 14 July, 2019 organized by APJ Abdul Kalam Technical University.

MEMBERSHIP WITH PROFESSIONAL BODIES

- Member of Indian Society for Technical Education (ISTE): Life Membership No: LM69239
- Membership of Institution of Communication Engineers and Information Technologists (ICEIT): Senior Membership: SM1000081A

SCHOLARSHIP

Recipient of BHU Research Scholarship (JRF/SRF) from 01.9.1995 to 31.8.1999

SUBJECTS HANDLED/HANDLING FOR U.G. & P.G.

- Optical Communications/Optical Networks
- Microwave Engineering/Microwave Integrated Circuits
- Antenna & Wave propagation
- Electromagnetic Field Theory
- Principle of Communication/Digital Communication
- Wireless and Mobile Communication
- Radar & Satellite Communication
- Integrated Circuits
- Electronic Devices & Circuits
- Electronics Engineering

Project Guided/Guiding for U.G. & P.G.

- 46 projects guided to UG/PG students in the field of Electronics & Communication Engineering.

Coordinator: Staff Development Programme

AICTE sponsored Staff Development Programme (SDP) on "Application of EDA Tools in Emerging Engineering Fields" from 04-17 July 2011 organized by Dept. of Electronics & Communication Engineering, Radha Govind Engineering College Meerut.

Centre Superintendent

- Appointed as Centre Superintendent for the AKTU Examinations at Radha Govind Group of Institutions (RGGI), Meerut.

Ph.D. Guide

- Guided 01 Ph.D. Scholar at Teerthankar Mahaveer University (TMU), Moradabad, UP, India.
- Topic of Research: *Evolution in RFID Security to Building it in the Global Environment.*

CHIEF GUEST

Invited as Chief Guest on the occasion of "World Standards Day" celebration on 13th October 2018 at Radha Govind Group of Institutions, Meerut, organized by collaborative efforts of Institution of Engineers (India) – Meerut Chapter and RGGI Meerut; Theme of the event: "International standards and fourth industrial revolution".

PERSONAL PROFILE

- Father Name : Shri Ram Yash Singh
- Mother Name : Smt. Parvati Devi
- Date of Birth : 3rd March 1969
- Native Place : Village – Baladewan, Post- Indaur, Thana- Itari, Dist.- Buxar (Bihar), PIN Code: 802117
- Sex : Male
- Hobby : Yoga
- Marital Status : Married

Postal Address

C-22 (2nd Floor), Moti Prayag Colony, Garh Road, Meerut-250004, Utter Pradesh

(P. K. SINGH)