

## **Dr. Harsh Vikram Singh**



Name : Dr. HARSH VIKRAM SINGH  
Father's Name : Dr. D. B. SINGH  
Date of Birth : 26- 07 -1980  
Nationality : Indian  
Marital Status : Married  
Address : Associate Professor, Electronics Engineering Department,  
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### **Academic Qualification**

<b>Examination</b>	<b>Board/University</b>	<b>Year of Passing</b>	<b>Division &amp; Percentage</b>
Doctorate of Philosophy in Electronics Engineering	IIT- BHU	2008	-
Bachelor of Technology (Electronics Engineering)	IET-PU	2002	1 <sup>st</sup> , 79%
Intermediate	U.P Board	1997	1 <sup>st</sup> , 69%
S.S.C.	U.P Board	1995	1 <sup>st</sup> , 73%

**Title of the Ph. D. Thesis:** *Study and Analysis of Information Hiding Techniques using Image Covers*

### **Employment Details**

<b>S N</b>	<b>Nature of Job</b>	<b>Organisation / Institutes where employed</b>	<b>Duration</b>
1.	Network Engineer	DC Info Solutions, Lucknow	September 2002 – August 2004
2.	Junior Research Fellow	Centre of Advance Studies, IIT-BHU, Varanasi	September 2004 – February 2007
3.	Senior Research Fellow	Centre of Advance Studies, IIT-BHU, Varanasi	March 2007 – October 2008
4.	Assistant Professor	Electronics Engineering Department, K.N.I.T. Sultanpur	22 October 2008 – 10 December 2017
5.	Associate Professor	Electronics Engineering Department, K.N.I.T. Sultanpur	11 December 2017- Till Date

## Research Projects

S.No.	Title	Agency	Period	Status	Amount of Grant (In Lac)
1.	“Design and Hardware Implementation of Secure Data Hiding Algorithm”	Council of Science & Technology (CST), Government of UP	3 Years	Completed	9.2 Lacs
2.	“Career award for Young Teachers”	AICTE	3 Years	Completed	9 Lacs
3.	Research Seed Money Grant	TEQUIP-II (World Bank)	1 Year	Completed	1.00 Lac

## PUBLICATIONS

(i) **Book: Harsh Vikram Singh**, “Information Hiding Techniques for Image Covers,” LAP LAMBERT Academic Publishing GmbH & Co. KG, Ddudweiler Landstr. 99, 66123 Saarbrücken, Germany.

(ii) **Research Papers**

Type of Publications	Journals			Conferences/Seminar	Book Chapters
	SCI	Scopus	Other	Presented	Published
International	07	13	06	19	04
National	-	2	04	21	-
<b>Total Publications : 76</b>					

## PROJECT/THESIS SUPERVISED

Degree Level	Completed	on progress
Ph.D.	3	2
M.Tech.	24	5
B.Tech.	67	8

## Editorial Team Member/ Reviewer

- Joint Editor, International Journal of Advancements in Computing Technology (IJACT).
- Editor, Souvenir and Proceedings of National Conference on Emerging Trends in Electrical and Electronics Engineering.
- Reviewer, International Journal of Information and Computer Security (IJICS).

- Reviewer, International Journal of Soft Computing and Engineering (IJSCE).
- Reviewer, PERTANIKA Journal of Science & Technology.

### **RESEARCH INTERESTS**

- Information Security, Steganography, Cryptography, Digital Signal & Image Processing, FPGA design, Embedded Systems.

### **FELLOWSHIPS / AWARDS**

- Career Award for Young Teacher (CAYT) from AICTE in 2013.
- Young Scientist Award from Council of Science & Technology (UP Government) in 2012.
- U.G.C. Junior Research Fellowship (Centre for Advance Study, Deptt. of Electronics, IIT-BHU)
- U.G.C. Senior Research Fellowship (Centre for Advance Study, Deptt. of Electronics, IIT-BHU)
- Travel Fellowship for research paper presentation in IEEE International Conference on Distributed Framework for Multimedia Applications (DFMA-2006), School of Computer Science, University Sains Malaysia, Penang, Malaysia.
- Best paper award **International Conference** on Information and Communication Technology (ICICT-2010).
- Best paper award **International Conference** on Meta Computing (ICoMC-2011).
- Best paper award for co-authored paper in **National Conference** on Emerging Trends in Electrical and Electronics Engineering (ETEEE-2011).

### **Workshop/ FDP/ Conferences Organized**

- Coordinator, TEQUIP-III (Word Bank) sponsored “One Week Short Term Training Programme on IPR and Entrepreneurship” in KNIT Sultanpur, February 13 -17, 2018.
- Coordinator, AICTE sponsored “Two weeks Faculty Development Program on Simulation and Mathematical Tools for Engineering Research” in KNIT Sultanpur, July 04-15, 2016.
- Organizing Secretary TEQUIP-II (Word Bank) sponsored “One week FDP on Mechatronics & Mechanical Measurement” in KNIT Sultanpur, March 01-05,2016.
- Organizing Secretary AICTE sponsored “Two weeks FDP on Research Methodology using Data Analytical Tools” in KNIT Sultanpur, January 11-22, 2016.
- Convenor, TEQUIP-II (Word Bank) sponsored “One Week Faculty Development Programme on Embedded System Development” in KNIT Sultanpur November 02-06, 2015.
- Coordinator, TEQUIP-II (Word Bank) sponsored “One Week Short Term Training Programme on Simulation and Mathematical Tool for Engineering Applications” in KNIT Sultanpur July 27-31, 2015.
- Coordinator, DST sponsored “Two weeks Faculty Development Programme on Entrepreneurship Development”, Feb. 16 –28, 2015.
- Organising Secretary, Workshop on Advances in Optimization Techniques and Their application in Power systems, Feb. 20-21, 2015, Sponsored by TEQUIP-II Word bank Grant, KNIT Sultanpur.

- Convenor, Seminar on “Nuclear Technology: A Holistic Solution for Progress” September 16, 2014, organised by Bhabha Atomic Research Center (BARC) at KNIT Sultanpur.
- Coordinator, “One week ICT Program on VLSI, from NITTTR Chandigarh in KNIT Sultanpur, March 10-14, 2014.
- Convenor, International Symposium on Recent Trends in Electronics & Communication (ISRTEC), Nov. 08- 09, 2012.
- Convenor, National Workshop on Exposure on Nano-science and Engineering, May 26th 2012.
- Coordinator National Workshop on Design & Simulation of Embedded Systems, Oct. 22, 2013.
- Co-coordinator, One week ICT Program on Induction Training, from NITTTR Chandigarh in KNIT Sultanpur, Feb. 17-21, 2014.
- Organising Secretary, DST sponsored Two weeks Faculty Development Programme on Entrepreneurship Development, Feb. 25 – March 08, 2013.
- Convenor, National Conference on Recent Trends in Energy Systems (NCRTES - 2013), 5-6 APRIL, 2013, KNIT Sultanpur.
- Co-convenor National Conference on Emerging Trends in Electrical and Electronics Engineering (ETEEE-11), KNIT Sultanpur.
- Convenor, DST sponsored Two weeks Faculty Development Programme on Entrepreneurship Development, Dec. 16 – 27, 2013.

### **Submitted Project / Consultancy Proposals**

- “Next Generation e-content for Information Security Threats & their Countermeasures in Open-Channel Network Environment,” proposal submitted to Ministry of Human Resource Development (MHRD), Government of India.
- “Study, Analysis and Implementation of FPGA Based Steganography System for Data Communication Security,” proposal submitted to Department of Science & Technology (DST), Government of India.

### **KEY NOTE / SESSION CHAIRED**

1. Key Note Address in 4<sup>th</sup> International Conference on Advance Trends in Engineering, Technology and Research (ICATETR-2015), BKIT, Kota.
2. Key Note Address in International Symposium on Recent Trends in Electronics & Communication (ISRTEC), Nov. 08- 09, 2012, KNIT Sultanpur.
3. Session Chair in IEEE International Conference on Emerging Trends in Electrical, Electronics & Sustainable Energy Systems ICETEESES-16
4. Session Chair in National Conference on Emerging Trends in Electrical and Electronics Engineering (ETEEE-11), KNIT Sultanpur
5. Session Chair in National Conference on Recent Trends in Energy Systems (NCRTES - 2013), 5-6 APRIL, 2013, KNIT Sultanpur.

## **LECTURE/ EXPERT TALK DELIVERED**

1. Delivered expert lecture in TEQUIP-II (Word Bank) sponsored “One Week Short Term Training Programme on Simulation and Mathematical Tool for Engineering Applications” in KNIT Sultanpur July 27-31, 2015.
2. Delivered expert lecture in Training Course at KNIT Sultanpur on MATLAB & its Applications in Electrical Engineering, MAEE 09 during Dec 14-16, 2009 on the topic “Basic MATLAB Programming for Image Processing Applications”.
3. Organised a Lab session in Training Course at KNIT Sultanpur on MATLAB & its Applications in Electrical Engineering, MAEE 09 during Dec 14-16, 2009.
4. Delivered expert lecture as a resource person in AICTE sponsored Staff Development Program on VLSI and Embedded systems at V C E, Meerut (U.P) during Jan 25- Feb7, 2010 on the topic “MATLAB & its Applications in Image Processing”.
5. Delivered expert lecture as a resource person in AICTE sponsored Staff Development Program on VLSI and Embedded systems at V C E, Meerut (U.P) during Jan 25- Feb7, 2010 on the topic “Embedded System Design & Fault Tolerance”.
6. Delivered expert lecture as a resource person in National Workshop on Exposure on Nano-science and Engineering, May 26<sup>th</sup> 2012, KNIT Sultanpur.
7. Delivered expert lecture as a resource person in National Workshop on Design & Simulation of Embedded Systems, Oct. 22, 2013.
8. Delivered expert lecture as a resource person in Seminar on “Nuclear Technology: A Holistic Solution for Progress” September 16, 2014, organised by Bhabha Atomic Research Center (BARC) at KNIT Sultanpur.
9. Delivered expert lecture as a resource person in National Conference on Cloud Computing, December 20-23, 2014 organized by NICS.
10. Delivered expert lecture as a resource person on “Introduction of MATLAB& its Applications in Image Processing” in One Week Short Term Training Programme on Simulation and Mathematical Tool for Engineering Applications.

## **ADMINISTRATIVE / ACADEMIC POST HELD**

### **INSTITUTE LEVEL**

1. Coordinator, Innovation & Incubation Centre, KNIT Sultanpur (2016-18)
2. Coordinator, Startup Cell, KNIT Sultanpur (2017-18)
3. Officer In charge, Research & Development, KNIT Sultanpur (2013- 2015).
4. Additional Officer In charge, Research & Development, KNIT Sultanpur (2010-2012).
5. Warden Girls Hostel, KNIT Sultanpur (2010- till date).
6. Deputy controller of Examination KNIT Sultanpur (2013- 2015).
7. Group Leader (Flying Squad), UPTU Nodal Centre Jaunpur.
8. Assistant Centre Superintendent, UPTU Nodal Centre KNIT Sultanpur.
9. PG Coordinator, Department of Electronics, KNIT Sultanpur.

10. Member Departmental Promotion Committee, KNIT Sultanpur.
11. Member of Records search & documentation committee, KNIT Sultanpur.
12. Member of Departmental Representative for project preparation of WBTEQIP, KNIT Sultanpur.
13. Departmental Representative for Training & Placement Office (TPO), KNIT Sultanpur.
14. Member of Practorial Board, KNIT Sultanpur.
15. Member of Dean's committee, KNIT Sultanpur.
16. In charge Time-Table Department of Electronics KNIT, Sultanpur.
17. In charge Communication Lab in KNIT, Sultanpur.

#### **UNIVERSITY LEVEL**

1. Worked as nodal officer in UPSEE (2012 to2014).
2. Worked as Centre Controller in UPSEE (2009 to 2011).
3. Worked as Assistant Centre Superintendent in Nodal Centre KNIT Sultanpur.
4. Worked as Head Examiner in UPTU evaluations.
5. Worked as Paper Setter in Electronics & Communication Engineering Subjects of various Universities i.e. M J P Rohilkhand University,Bareilly, Poorvanchal University,Jaunpur, RML Avadh University, Faizabad, Bundelkhand University etc.
6. Worked as evaluator in Electronics & Communication Engineering Subjects of various Universities i.e. M J P Rohilkhand University,Bareilly, Poorvanchal University,Jaunpur, RML Avadh University, Faizabad, Bundelkhand University etc.
7. Worked as External Practical Examiner in GBTU Even/odd Semester Examination for Electronics Engineering subjects.
8. Worked as External Examiner in Even/odd Semester Examination for Electronics Engineering subjects in various Universities i.e. M J P Rohilkhand University,Bareilly, Poorvanchal University,Jaunpur, RML Avadh University, Faizabad, Bundelkhand University etc.

#### **Membership of Professional Societies:**

- Member of IEEE.
- Member of ISTE.
- Member of WASET Scientific and Technical Committee on Natural and Applied Sciences (UK).
- Member of International Association of Engineers (IAENG), USA.
- Member of indianscience, India.
- Member Universal Association of Computer and Electronics Engineers, India.

#### **INTERNATIONAL COLLABORATION**

- Prof. Suresh Rai, Professor, Department of Electrical & Computer Engineering, Louisiana State University, Baton Rouge, LA 70803-5901 (USA).
- Dr. Ashutosh Kumar Singh, Senior Lecturer, Department of Electrical & Computer Engineering, School of Engineering and Science, Curtin University of Technology, Sarwak (Malaysia).

#### **ABROAD VISIT**

- Visited, Penang, Malaysia, 2006 to present a paper in 2<sup>nd</sup> IEEE International Conference on Distributed Framework for Multimedia Applications, University Sains Malaysia, Penang, Malaysia.

- Visited, Kuala Lumpur, Malaysia, 2006 to interact with faculty members and students at University Tun Abdul Razak Malaysia.

### **FDP & SUMMER/ WINTER COURSES ATTENDED**

- 1 Attended “One Week Training Program on Active Learning, Autonomy, Academic Governance and R&D”, June 04-08, 2018 in IIT Roorkee.
- 2 Attended TEQUIP-II (Word Bank) sponsored “One Week Faculty Development Programme on Recent Advances in Numerical and Optimization Techniques” in KNIT Sultanpur, March 01- 05, 2016.
- 3 Attended AICTE sponsored “Two Weeks Faculty Development Programme on Research Methodology using Data Analytical Tools” in KNIT Sultanpur January 11-22, 2016.
- 4 Attended TEQUIP-II (Word Bank) sponsored “One Week Faculty Development Programme on Embedded System Development” in KNIT Sultanpur November 02-06, 2015.
- 5 Attended TEQUIP-II (Word Bank) sponsored “Two Days Faculty Development Programme on Wireless Technologies & WSN” in KNIT Sultanpur” October 06-07, 2015.
- 6 Attended TEQUIP-II (Word Bank) sponsored “One Week Short Term Training Programme on Simulation and Mathematical Tool for Engineering Applications” in KNIT Sultanpur July 27-31, 2015.
- 7 Attended One Week Faculty Development Program on “MATHEMATICA 10” sponsored by TEQIP-II Word bank Grant, KNIT Sultanpur during March 21-26, 2015.
- 8 Attended Workshop on Advances in Optimization Techniques and Their application in Power systems, Feb. 20-21, 2015, Sponsored by TEQIP-II Word bank Grant, KNIT Sultanpur.
- 9 Attended Faculty Development Program on “Entrepreneurship Development” sponsored by DST, at KNIT Sultanpur during February 16-28, 2015.
- 10 Attended QIP Short Term course sponsored by AICTE on “Nanotechnology for Electronic & Photonic Applications, at Indian Institute of Technology, IIT Khargpur during Oct.03 to Oct. 17, 2012.
- 11 Attended Faculty Development Program on “Entrepreneurship Development” sponsored by DST, at KNIT Sultanpur during February 17-March 2, 2013.
- 12 Attended Faculty Development Program on “Software as a Service using Cloud Computing & Enterprise Mobility” Tata Consultancy Services, Lucknow July 28, 2012.
- 13 Attended Faculty Development Program on “Entrepreneurship Development” sponsored by DST, at KNIT Sultanpur during December 16- December 27, 2013.
- 14 Attended One week ICT Faculty Development Program on VLSI, from NITTTR Chandigarh in KNIT Sultanpur, March 10-14, 2014.
- 15 Attended One week ICT Faculty Development Program on Induction Training from NITTTR Chandigarh in KNIT Sultanpur, Feb. 17-21, 2014.
- 16 Attended Faculty Development Program (Advanced Embedded systems) organized by NITTTR Chandigarh during March 26-30, 2012.
- 17 Attended Faculty Development Program (Entrepreneurship Development) sponsored by DST, at Sultanpur during February 17-March 2, 2012.

- 18 Attended Faculty Development Program (Pedagogy Training) organized by E Q U A T E, New Delhi at K N I T Sultanpur during January 12-17, 2009.
- 19 Attended Faculty Development Program (Developing Effective Communication) organized by E Q U A T E, New Delhi at K N I T Sultanpur during, December 27- 29, 2008.
- 20 Attended AICTE sponsored Staff Development Program on VLSI and Embedded systems at V C E, Meerut (U.P.) during January 25- February 07, 2010.
- 21 Attended a Training Course at K N I T Sultanpur on MATLAB & its Applications in Electrical Engineering, MAEE 09 during December 14-16, 2009.

### **IMPORTANT CONFERENCES/SEMINARS/ WORKSHOPS ATTENDED**

6. International Conference on Signal Processing, Communications and System Design (ICSPCOMSD-2015), MRECW, Dhulapally, Hyderabad.
7. 4<sup>th</sup> International Conference on Advance Trends in Engineering, Technology and Research (ICATETR-2015), BKIT, Kota.
8. 2<sup>nd</sup> IEEE International Conference on Distributed Framework for Multimedia Applications (DFMA-2006), University Sains Malaysia, Penang, Malaysia.
9. 13<sup>th</sup> IEEE International Conference of Advanced Computing and Communication, Amrita University, Coimbatore, India.
10. 4<sup>th</sup> International Conference on Quality, Reliability and Infocom (ICQRTI- 2009), University of Delhi, New Delhi, India.
11. International Conference on Information and Communication Technology (ICICT-2010), TSM Collge, Madurai, India.
12. International Conference on Advance Computing, Communication and Networks'11 (ICAdCN), UACEE, Chandigarh, India.
13. First International Conference on Science, Engineering and Management Research (ICSEMR 2014) at Chennai, India.
14. International Conference on Metacomputing-2011, National Institute of Oceanography, Goa.
15. National Conference on Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries (MATIET-2006), University of Delhi, New Delhi, India.
16. National Conference on Modern Trends in Information & Communication Technology, Maharishi Markandeshwar Engineering College, Ambala, India.
17. IETE Zonal Seminar on Emerging and Converging Communication Technologies, Andhra University, Vishakhapatnam.
18. Workshop on Entrepreneurship Development, KNIT Sultanpur.
19. National Conference of Modern Trends in Electronics and Communication, Aligarh Muslim University, Aligarh, India.
20. National Workshop on Advanced Optoelectronics Materials and Devices, AOMD-2007, Institute of Technology, Banaras Hindu University, Varanasi, India.
21. Symposium on Emerging Trends in Electronics, ELECTRO-2005, Institute of Technology, Banaras Hindu University, Varanasi, India.



22. National Conference on Emerging Trends on Electrical and Electronics Engineering (ETEEE-11), KNIT Sultanpur.
23. National Seminar at KNIT Sultanpur on Non Conventional Energy Resources & its Utilization, NCERU 09 during February 27-28, 2009.
24. One Day workshop at KNIT Sultanpur on “Programming with MATLAB”, on Feb. 02, 2013.
25. International Conference on Advances in Engineering & Technology, International Academic Research Centre, Deheradun.
26. International Conference on Telecommunication and Networks (TEL-NET 2013) Noida, India.
27. 3<sup>rd</sup> National Conference on Electronics, Communication and Signal Processing (NCECS) 2013, Siliguri, India.
28. National Workshop on Design & Simulation of Embedded Systems, Oct. 22, 2013.
29. National Conference on Recent Trends in Energy Systems (NCRTES - 2013), 5-6 APRIL, 2013, KNIT Sultanpur.
30. Advances in Optimization Techniques and Their application in Power systems, Feb. 20-21, 2015, Sponsored by TEQIP-II World Bank Grant, KNIT Sultanpur.
31. National Workshop on Exposure on Nano-science and Engineering, May 26<sup>th</sup> 2012, KNIT Sultanpur.
32. MATLAB & its Applications in Electrical Engineering, MAEE 09 during Dec 14-16, 2009 KNIT Sultanpur.

## **REFERENCES**

- 1 Prof. Anand Mohan,  
Director,  
National Institute of Technology  
Kurukshetra, Pin: 136119  
Haryana, India  
E-Mail: director@nitkkr.ac.in  
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- 2 Prof. Suresh Rai  
Professor  
Department of Electrical & Computer Engineering,  
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E-mail:- suresh@ece.lsu.edu, Tel: 225-578-4832
  
- 3 Prof. J.P. Pandey  
Director  
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