

**1. Name: Jyoti Verma**

**2. Education:**

- **Ph.D :** “Development of Optimized Handoff Decision Algorithm for Wireless Networks”. Computer Science & Engineering Department, Manav Rachna International University, Faridabad, INDIA, March 2018.
- **Master of Engineering:** Signal Processing, Lingaya’s Institute of Management & Technology, Faridabad, INDIA, 2009.
- **Bachelor of Engineering:** Electronics & Telecommunication Engineering, Lingaya’s Institute of Management & Technology, Faridabad, INDIA, 2004.

**3. Experience: 16**

**4. Academic experience:**

- Manav Rachna International University (**NAAC A Grade**) FET, Faridabad, Haryana, India. Assistant Professor in ECE department (August 2010 till date) Full Time.
- Apeejay College of Engineering Sohna, Gurgaon, Haryana, India. Lecturer in ECE department (Jan 2008-Aug 2010) Full Time
- Gold Field Institute of Management &Technology, Ballabgarh, India. Lecturer in ECE department (July 2007 to Jan 2008) Full Time.
- Aravali Institute of Aeronautical Engineering & Science Technology, Pali, Faridabad, India, Lectures in ECE department (Jan 2006 to June 2007 ) Full Time

**5. Non-academic experience:**

- Superior Products Industries Ltd. – An Energy Meter manufacturing company, Ballabgarh, India. – Testing & Calibration Engineer (Dec. 2004 to Aug. 2005) Full Time

**6. Special Achievements: Nil**

**7. Certifications or professional registrations: Nil**

**8. Current membership in professional organizations: Current membership in professional organizations:**

- Life member of The Indian Society for Technical Education (LM 115856)
- Member of The Institution of Engineers, Calcutta (M-1581141).
- Membership of the International Association of Engineers (MIAEG-184474)

**9. Honors and awards: Nil**

**10. Service activities (within and outside of the institution):**

- **Guided M.tech:** (2011-2013): Puja Malhotra, A DWT- SVD Based Watermarking Techniques for digital Images, July 2014.
- **Guided M.tech:** (2012-2014): Parul Rana, Cognitive Radio Spectrum Sensing and Decisions, July 2013.

- **Guided M.tech:** Gayatri, Design of 10-transistor SRAM using FinFET and Comparative, Analysis of SRAM cell on MOSFET and FinFET Technology, July 2018.
- Departmental library incharge.
- Mentor (2019-23 Batch)

## 11. Important publications and presentations:

- Mansi Varshney, Divyansh Dixit, Anish Raj, Jyoti Verma, 26 April 2021, “Robotics Process Automation: The Future Digital Worker”, Journal of Huazhong University of Science and Technology, vol 50, issue 4, ISSN-1671-4512, **Scopus indexed**
- Aman Sanghi & Jyoti Verma, Dec 2020, “Security Issues in Cognitive Radio Networks”, Solid State Technology, Volume 63, Issue 5, Publication Year: 2020 , **Scopus indexed**
- Shaveta Thakral, Pratima Manhas, Jyoti Verma, Nov. 2020. “Roadblock of Quality Education and its Avoidance”, Solid State Technology, Volume 63, Issue 5, Publication Year: 2020 , **Scopus indexed**. link: <http://www.solidstatetechnology.us/index.php/JSST/issue/view/48>:
- Sunanda Gupta, Jyoti Verma, Shaveta Thakral, Pratima Manhas, May 2020. “Performance Evaluation of Image Registration Using Multiple Novel Algorithms”, Inter-national Journal of Advanced Science and Technology , Vol. 29, No. 5, (2020), pp. 4714 – 4726. **Scopus indexed**
- Jyoti Verma, Abhiruchi Passi, Savita Sindhu, S.Gayathiri, October 2019. “ Design 10-Transistor (10t) Sram using Finfet Technology”, International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Volume-9, Issue-1. **Scopus indexed**
- Verma, J.; Gupta, S.; Manhas, P.; Arora, V., 2019 . “A novel approach to improve handover performance “, International Journal of Communication Networks and Distributed Systems , Switzerland, 2019 Vol.23 No.1, pp.44 – 68, 17543916, 17543924 **Scopus indexed.-Inderscience**.
- Verma, J.; Gupta, S.; Manhas, P.; Arora, V., 2018 . “Target Network Selection Algorithm based on Required Dwell Time Estimation”, Indonesian Journal of Electrical Engineering and Informatics (IJEI), ISSN 2089-3272, Vol. 6, No. 2, pp. 172-182, **Scopus indexed**.
- Madaan, J. and Kashyap, I., 2018. “A Novel Handoff Necessity Estimation Approach Based on Travelling Distance”, International Journal of Intelligent Systems and Applications (IJISA), vol. 10, no. 1, pp.46-57. **Scopus indexed**.
- Madaan, J. and Kashyap, I., June 2017. “Travelling Distance Estimation Based Approach to Minimize Unnecessary Handovers”, Recent Advances in Electrical & Electronic Engineering (Formerly Recent Patents on Electrical & Electronic Engineering)ISSN: 2352-0973 (Online) ISSN: 2352-0965 (Print), ), vol. 10, no. 2, pp. 110-120. **Scopus indexed**.

## Book Chapter

- “Quantum implementation of Reversible logic gates using RCViewer+ tool “,,Pratima Manhas, Shaveta Thakral, Jyoti Verma , “International Conference on Emerging Technologies in Data Mining and information Security( Springer),23rd to 25th Feb 2022.
- “Machine Learning Approach based on Fuzzy logic for Industrial Temperature regulation”, Pratima Manhas, Shaveta Thakral, Jyoti Verma, Sunanda," International Conference on Emerging Technologies in Data Mining and information Security( Springer), 23rd to 25th Feb 2022.
- Isha Rajput and Jyoti Verma, 2021, “Controller Design for Dynamic Stability and Performance Enhancement of Renewable Energy Systems”, in Packages Intelligent Technologies and Robotics Intelligent Technologies and Robotics, springer, ISSN: 978-981-15-9828-9, [https://doi.org/10.1007/978-981-15-9829-6\\_52](https://doi.org/10.1007/978-981-15-9829-6_52).

## 12. List of Courses/STC/Workshop attended:

- Industrial Internet of Things (IIoT), Application No: 1614917746 Jun 7, 2021- Jun 11, 2021, Institute:Swami Keshvanand Institute of Technology, Management & Gramothan.
- Challenges and Opportunities in VLSI for IoT applications, Application No: 1614145659 21 Jun , 2021- 25 Jun, 2021, organized by Microelectronics Research Group, Department of ECE, Koneru Lakshmaiah Education Foundation.
- AICTE sponsored one week Short Term Training program on “Cloud Computing and Internet of Things” organized by Department of Electronics Engineering, J. C. Bose University of Science and Technology, YMCA, Faridabad from 07th Feb. 2022 to 12th Feb. 2022.
- ATAL FDP program on Industrial Internet of Things (IIoT) from 7.6.2021 to 11.6.2021.
- ATAL FDP program on “Contemporary Advances in Sustainable and Integrated Infrastructure: from 02/08/2021 to 06/08/2021.
- ATAL FDP program on “Internet of Things and Sensors” on 26-07-2021 to 30-07-2021.
- Participated in an ICT based AICTE recognized Short Term Training Program on “Embedded Systems” organized by Department of Electronics & Communication Engineering, NITTTR, Chandigarh from 19 March- 23 March, 2018.
- Participated in an ICT based AICTE recognized Short Term Training Program on “Wireless Communication” organized by Department of Electronics & Communication Engineering, NITTTR, Chandigarh from 30 October- 3 November, 2017.
- Attended a Workshop on “FDP on Cyber Security”, organized during October 7.10. 2017 in E-Block.
- Attended a Session comprising hands-on problem solving on linear, transport, assignment and evolutionary programming, computational technology using SOLVER TOOL of excel from 29.3.18 to 30.3.18 in Ph.D. Learning Lounge I Block.
- Participated and attended in Workshop on Workshop on “Basics of Python” organized from 18.1.18 to 20.1.18 in ECE dept.,FET, MRIIRS.

- Participated in ICT based training programme on ‘Strategic Management and SWOT Analysis for Institution Excellence’ conducted by EDIC Department, NITTTR Chandigarh from 21 - 25 August 2017 at MREI campus (Remote Center).
- Participated in one day ‘Workshop on Nature Inspired Optimization Techniques’ held on 21st Jan. 2017.
- Participated & attended one week national workshop on ‘Instrumentation Using Lab VIEW’ held during Dec’ 19 till 23th Dec 2016.
- Participated & attended a two day workshop on ‘NI Lab VIEW’ held on 18<sup>th</sup> and 19<sup>th</sup> Nov 2016.
- Participated & attended ‘Workshop on Experiential and Outcome-Based Learning’ held during May’30 till 10th June 2016.
- Attended ‘International Conference on Soft Computing Techniques and Implementations’ held during 8th till 10th October 2015. The Conference was technically supported by IEEE and ISI Kolkata.
- Attended ‘Professor Summit on ATMEGA 168PB and SAMD21 MCUS Embedded system design using AVR and ARM based MCUs on 29.9.15 and 30.6.15.

### 13. Book Authored

‘Trends in Telecommunications Technologies: Mobility and Handoff Management in Wireless Networks’ Publishing house: LAP LAMBERT Academic Publishing, Jyoti Verma, Indu Kashyap, Sunanda Gupta, Number of pages: 172 Published on: 2018-06-12.<https://www.lap-publishing.com>.

### 14. Updated Citation, h index, i10 index

<b>Citations</b>	<b>32</b>
<b>h-index</b>	<b>4</b>
<b>i10-index</b>	<b>0</b>

### 15. Innovations in Teaching Learning:

Apart from teaching various minor projects were made by students related to subject like BCD to seven segment decoder, 2 bit comparator, T flip flop, code converters etc.