



## MANAV RACHNA UNIVERSITY, FARIDABAD

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### Dr. Nitika

**Designation:** Associate Professor

**Qualifications:** M.Tech (ECE), Ph.D.

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**Research Interest :** Digital System Design, Verification technology, Solar Materials

#### + Journal Publication Details:

Nitika, Gupta, S., Dixit, S.K. et al. “**Mechanistic insights on improved performance of PCDTBT:PC71BM hetero-structured organic photovoltaic cells via interfacing CdSe/ZnS nanostructures**”, Applied Nanosci (2021). <https://doi.org/10.1007/s13204-021-01789-5>(Scopus)

Nitika, Dixit SK, Abbas H., “**Excited state and charge transfer dynamics in gas phase molecule of CH3NH3PbI3: first-principles study**”, J Mol Model. 2021 Jan 7;27(2):27. doi: 10.1007/s00894-020-04635-7. PMID: 33411088. (Scopus)

Bashrat Bahir, K.Deepa, **Nitika**, “**Identification of an Individual Using ECG Signal**”, International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, No. 4, August 2016.

Kanika Tayal, P.M.Arivananthi, **Nitika**, K.Deepa,Vijay Gill, “**Denosing of ECG Signal Using Savitzky Golay Filters**”, International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, No. 4, August 2016.

**Nitika**, Yogita Khanna, Sunita Joshi, Sukhmeet kaur, “**A Study on Application Specific Instruction Set Processor**”, International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, No. 4, August 2016.

Richa Malhotra, Vishal Sharma, Vineeta Sharma, **Nitika**, “**VLSI Implementation of High Precision Stepper Motor Using Verilog HDL**”, International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, No. 4, August 2016.

Sukhmeet Kaur, **Nitika Munjal**, “**Comparison of Dadda Multiplier with Wallace Multiplier based on its Implementation using VHDL**”, International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, No. 4, August 2016.

Sunita Joshi ,Yogita Gupta , **Nitika** , Y K Awasthi, Himanshu Singh, “**Review on Tunable Terahertz Graphene Metamaterial**”, International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, No. 4, August 2016.

Yogita Gupta, Sunita Joshi, **Nitika Munjal**, Y K Awasthi, Himanshu Singh, “**Progression of Metamaterials: Brief Classification**”, International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, No. 4, August 2016.

Kanika Tayal, P.M.Arivananthi, Vijay Gill, K.Deepa, **Nitika**, “**Review Paper On Prolongation Of Pr Interval**”

And Denoising Ecg Signal Using Wavelets”, International Journal of Innovations in Engineering and Management (IJIEM), Vol. 5, No. 1, April 2016.

Bashrat Bahir , K.Deepa, **Nitika**, Vijay Gill, P.M.Arivananthi, “ECG Signal as a Biometric”, International Journal of Innovations in Engineering and Management (IJIEM), Vol. 5, No. 1, April 2016.

Kanika Tayal, K.Deepa, P.M. Arivahananthi, **Nitika**, Vijay Gill, “**Analysis of Prolonged Interval of PR Segment for First AV Blockage**”, International Journal of Research In Advanced Engineering Technologies (IJRAET), Vol. 4, No. 1, Feb.2016

Sukhmeet Kaur, Namita Kathpal, **Nitika Munjal**, “**Role of SCADA in Hydro Power Plant AUTOMATION**”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering IJAREEIE, Vol. 4, No. 10, Oct. 2015

#### + Conference Details:

**Nitika**, Shiv Kumar Dixit, B.M.Bahal “**Effect of Thermal Annealing on the Performance of PCDTBT:PC 71 BM composite solar cell**”, Green and Sustainable Chemistry Conference, (GSCC-2019), Department of Chemistry, Manav Rachna University, Faridabad.

**Nitika**, Shiv Kumar Dixit, Chhavi Bhatnagar, B.M.Bahal, Anita Kumari and P.K.Bhatnagar “**Improved Power Conversion Efficiency of Conducting Polymer Solar Cells via 42 Incorporation of a DNA-CTMA Electron Blocking Interlayer**”, International Conference on Advanced Materials (ICAM-2019), Centre for Nanoscience and Nanotechnology Jamia Milia Islamia, New Delhi.

**Nitika**, “**Study of different methods & issues in wireless networks**”, National Conference on Advances in Computing and Technology (NCACT), Rohtak, India, 2013.

**Nitika**, “**Reduction of PAPR (PEAK TO AVERAGE POWER RATIO) in MIMO-OFDM**”, Emerging Trends in Mobile Technologies and Security (ETMTS), Rohtak, India, 2011.

**Nitika**, “**ASIP- Application specific instruction set processor**”, Trends in information technology & computing (*ETIC*), Gurgaon, India, 2010.

**Nitika**, “**Supervisory Control And Data Acquisition**”, Electronics, Drives & Embedded Systems (IEDES), Hisar, India, PP. 57, 2009.

#### + Administrative Responsibilities:

**Coordinator University Examination Department** since July 2019.

**Student Mentor** for the ECE Department Students for Session 2019-2023.

**Coordinator Manav Rachna University Student Welfare Department** since June 2018.

**Coordinator** of the Department Examination team since June 2014.

**Member**, University UG/PG course/Syllabus Review Committee.

**Student Mentor** for the ECE Department 3<sup>rd</sup> and 4<sup>th</sup> Year Students for Session 2014-2016. Helped them get acquainted with the college studies and environment.

#### + Professional Affiliation:

Member of IEEE.