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Ms. Nitika

Designation: Assistant Professor

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

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<https://scholar.google.com/citations?user=Mw0qvZ0AAAAJ&hl=en>



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 3rd and 4th Year Students for Session 2014-2016. Helped them get acquainted with the college studies and environment.

+ Professional Affiliation:

Member of IEEE.