

Dr. D .NEELIMA PATNAIK

Personal Information



Designation: ASST. PROFESSOR

Qualification: M.Sc., B.Ed , Ph.D.

Experience: 14yrs

Specialization: PHYSICS

Date of Joining: 12/08/2015

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Achievements: Professional Recognition/ Award/ Prize/ Certificates.

- Achieved 3rd position and cash prize for a paper presentation in all physical science groups in an **International Conference on Material Science for Societal Advancement at Osmania University** 20th -22nd Jan. 2020
- Achieved 3rd position and cash prize for a paper presentation in all physical science groups conducted at **Osmania University** on 26th FEB. 2018 on the occasion of **NATIONAL SCIENCE DAY**.
- Achieved 3rd position for a poster presentation at a National seminar in Physics on “**PHYSICS AND QUALITY OF LIFE**”, Feb. 2014 conducted by University college for women ,KOTI, **Osmania University**.
- Selected for *Hands on Training in NANO FABRICATION TECHNIQUES AND MICRO & NANO CHARACTERIZATION TECHNIQUES* “ as a part of Indian Nanoelectronics Users Program (*INUP*) at IISC Bangalore CENSE from 4th Feb. – 12 Feb. 2016.

Paper presentations in Conferences, Seminars and Workshops

- Presented a Oral paper presentation in an **International Conference On Material Science for Societal Advancements 2020** held at Osmania University, Hyderabad, India on 20th & 22nd Jan, 2020 with title “**Optimal design analysis of a single mode low loss asymmetrical optical power splitter on LiTaO₃ substrate & study the propagation loss with Wavelength and Branching Angle**”
- Presented a Oral paper presentation in an **International Conference On Multifunctional Materials 2019** held at Geethanjali college of Engineering & Technology, in Hyderabad, India on 9th - 11th December, 2019 with title “**LiTaO₃ Directional Coupler Switch with Enhanced extinction ratio and low insertion loss.**”
- Presented a Oral paper presentation in an International Conference On Engineering And Advancement In Technology 2019 held at **Lords Institute of Engineering & Technology**, in Hyderabad, India on 9th & 10th April, 2019 with title “**LiTaO₃ 1x2 symmetrical and asymmetrical optical power splitter with a comparative study**”.
- Presented a Oral paper presentation in an International Conference on Advanced Functional materials and Devices (ICAFMD) at **NIT Warangal**,Telangana from 26th Feb to 28th Feb. 2019 with a title “ Title :
“**LiTaO₃ Directional Coupler Switching Operation with Enhanced Extinction Ratio and Low Insertion Loss**”
- Presented a Oral paper presentation with a title “ **Compact Low Loss Design and Simulation of LiTaO₃ Asymmetric Y-Branch Power splitter**” at International Conference on Innovations in Engineering, Technology and Sciences- (ICIETS) at N.I.E.I.T Mysore, Karnataka, India on 20th -21st September 2018.
- Presented a paper in the second national conference on “**Recent Advances in Applied Nano Materials**” organized by University college of science (Osmania University), Saifabad on 16th -17th Feb 2018.
- Participated in a Nation seminar in Physics on” **PHYSICS AND QUALITY OF LIFE**”, 24th & 25th February. Presented a poster presentation and *secured Third place* at University College for Woman, Koti, Osmania University.

Publications

- “LiTaO₃ Directional Coupler Switch with Enhanced Extinction Ratio and Low Insertion Loss” Journal of Physics: Conference Series, IOP Publishing 1495 (2020) 012036, doi:10.1088/1742-6596/1495/1/012036 .

- “A Comparative Study of LiTaO₃ Y-Branch Symmetric and Asymmetric Optical Power Splitter with S-Bend Waveguides with Various Parameters” International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-8, June, 2019.
- “Necessity Of Soft Skills To Indian Budding Engineers” An International Journal of English Language, Literature and Literary Theory Online ISSN 2347-2073 Vol. VII, Issue IV, Oct. 2018 U.G.C. Journal No. 44829
- “Natural Birefringence And Refractive Indices In Lithium Tantalate (LiTaO₃) Optical Wave Guide By Electronic Polarizabilities Of Ions “International Journal of Mechanical Engineering and Technology (IJMET) Volume 9, Issue 9, Sep 2018, pp. 590-595, Article ID:IJMET_09_09_064,http://www.iaeme.com/ijmet/issues.asp?JType=IJMET&VType=9&IType=9 ISSN Print: 0976-6340 and ISSN Online: 0976-6359 © IAEME Publication **Scopus Indexed**
- “Design and Simulation of LiTaO₃ Y-Branch Optical Power Splitter and Study on Variation of Transmitted Power with Wavelength in the Device “International Journal of Scientific & Engineering Research, Volume 4, Issue 10, October 2013 -537 ISSN 2229-5518 IJSER © 2013 <http://www.ijser.org>
- “Design and Simulation of 1x2 Y-branch optical power splitter with s-bend waveguide and study on the Variation of Transmitted power with Variation of Components Width “ International Journal of Current Engineering and Technology (IJCET) ISSN 2277 - 4106 © 2013 INPRESSCO. All Rights Reserved. Available at <http://inpressco.com/category/ijcet> Available online 01 October 2013, Vol.3, No.4 (October 2013)
- “Design and Simulation of LiTaO₃ Y-Branch Optical Power Splitter and Study on Variation of Transmitted Power with Wavelength in the Device “ *International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 Vol. 2 Issue 8, August – 2013.*
- “Compact low loss Design of LiTaO₃ 1x2 Y-Branch optical power splitter with S-Bend waveguide and study variation of transmitted power with various parameters ” *International Journal of Innovative Research in Science Engineering & Technology (IJIRSET), ISSN : 23198753(online),ISSN : 23476710,Vol 2 February 2014*

Conferences, Seminars and Workshops Attended:

- Participated as Delegate at Seventh International Conference on “Transformations in Engineering Education(ICTIEE-2020) conducted 5th - 8th January 2020 organized by Anurag Group of Institutions, Hyderabad.
- Participated in a Two day workshop “**Synergy of sB's- Brain and Body**” conducted on 5th and 8th November 2019 at CMR College of Engineering and Technology by Siddham NGO.

- Attended a 10 days' workshop on **“Train The Teachers For The Mandatory AICTE Students Induction Programme”** at CMR College of Engineering and Technology from 25th May to 3rd June 2019
- Attended a one-day National workshop on **“Advanced Material Characterization Techniques”** Dept. of. Physics Osmania University on 31st August 2018
- Attended one week FDP on **“Adoption of FOSS in Teaching and Learning process”** at CMR college of Engineering and Technology from 19th June to 23rd June 2018.
- Attended a three day workshop from 17th to 19th May 2018 on **“To Train the Trainers for Implementation of Induction Program ”** at JNTUH, Kukatpally, Hyderabad.
- Participated in a two day National workshop on **“MATERIAL CHARACTERIZATION TECHNIQUES OF NANO PARTICLES “** at Osmania University on 28th and 29th Sep. 2016.
- Participated in INUP Familiarization Workshop on **“NANO FABRICATION TECHNOLOGIES ”** at **IISC** Bangalore from 18th Jan. – 20th Jan. 2016.
- Attended a one day National workshop on **Photonics** at JNTU in Nov.2013.
- Attended a one day Workshop on **Nanotechnology** at CMREC in July 2013.
- Attended a one day workshop on **Photonics** held on 18th June 18, 2013 at IIIT Hyderabad by IEEE PHOTONICS Society sensor Research Society
- Attended at two days **workshop INTRODUCTION TO NANOSCIENCE AND TECHNOLOGY AND APPLICATIONS** on 3RD and 4TH SEPTEMBER, 2010 at JNTU.