

Dr. Abhimanyu

Assistant Professor

Department of ECE, GJUS&T, Hisar

Office: Room No. 209, Department of ECE, 1st floor, Teaching Block 7.

Phone: 09728073877, 01662-263647

Email: nainabhi@gmail.com, abhimanyu.nain@giust.org

<https://scholar.google.co.in/citations?user=slPHqwEAAAAJ&hl=en&oi=ao>

www.researchgate.net/profile/Abhimanyu_Nain

<https://www.linkedin.com/in/dr-abhimanyu-nain-12688a42/>

Areas of Specialization: Optical Communication and Wireless Communication.

Academia & Research:

Dr. Abhimanyu did his B. Tech (Honors) in 2009, M. Tech (Honors) in 2011 & Ph.D. in 2017 under the discipline Electronics & Communication Engineering.

He has qualified various National level quality certification examinations such as Graduate Aptitude Test in Engineering (GATE) and National Eligibility Test (NET). He is working as Assistant Professor in department of Electronics & Communication Engineering at Guru Jambheshwar University of Science & technology (GJUS&T), Hisar (India) since July, 2014. His research areas include optical communication & wireless communications.

Currently he is supervising 2 PhD scholars in the domain of performance improvement of next generation optical networks. Besides it, he has successfully guided 6 M. Tech students and dissertation work of 2 students is under progress.

Publication Details:

1. **Abhimanyu, Suresh Kumar,**” Dielectric Resonator Antenna: Theoretical Study and Review” Digitech: An International Journal of Computer Science And Applications Vol. 3, NO. 8 MARCH 2013 ISSN: 2229-4597, Pp 11-23.

2. **Abhimanyu**, Col. (Dr.) Suresh Kumar, Dr. Shelly Garg, "Wi-Max Through RoF: A Theoretical Study And Survey" IJARSE, Vol. No.4, Special Issue (01), March 2015 ISSN-2319-8354(E), Pp 1310-1317.
3. **Abhimanyu**, Col (Dr.) Suresh Kumar, "A Review of Dispersion and Nonlinearities in Radio over fiber Networks" 1st **International conference**, PSIMT 2015, YMCAUST, Faridabad, Haryana.
4. **Abhimanyu Nain**, Suresh Kumar and Shelly Singla, "Impact of XPM Crosstalk on SCM-Based RoF Systems" J. Opt. Commun. 2016, DOI 10.1515/joc-2016-0045.
5. **Abhimanyu Nain**, Suresh Kumar and Shelly Singla, "Performance Estimation of WDM Radio-over-Fiber Links Under the influence of SRS induced Crosstalk" International conf. on intelligent Communications and devices. 2-3 April 2016, UPES Dehradun. Proceeding published in ASIC SPRINGER.
6. Suresh Kumar, **Abhimanyu Nain**, "Simulative Investigation of WDM RoF Systems Including the Effect of Raman Crosstalk Using Different Modulators" Telecommunications & Radio Engineering, Vol. 75 (14), Pp1243-1254, 2016.
7. **Abhimanyu Nain**, Suresh Kumar, "Performance Investigation of different Modulation Schemes in RoF Systems under the influence of Self Phase Modulation" J. Opt. Commun. 2016.
8. **Abhimanyu Nain**, Suresh Kumar and Shelly Singla, "Mitigation of FWM Induced Crosstalk in WDM RoF Systems by employing different Fibers" Journal of Optics, June 2017.
9. Sandeep Tanwar, **Abhimanyu Nain** "Simulative Investigation of WDM RoF SO Networks including the Effect of Channel Spacing" IJSART - Volume 3 Issue 8 –AUGUST 2017, ISSN [ONLINE]: 2395-1052.
10. Kuldeep Singh, Ajay Kumar , **Abhimanyu Nain**, " Performance Analysis Of Millimeter Wave Generation Through Frequency 12-Tupling Using Mach-Zehnder Modulator In Radio Over Fiber System" Journal on Communication Engineering and Systems, Vol. 6 | No. 3 | May - July 2017
11. Garima Nain & **Abhimanyu Nain** " Simulative Comparison of Various Modulation Techniques in RoF SO based Networks" IJRAR- International Journal of Research and Analytical Reviews, VOLUME 4 I ISSUE 3 I JULY – SEPT. 2017, e ISSN 2348 –1269.

12. Priyanka Kumari, **Abhimanyu Nain**, “Design and simulation of RoF and FSO based Hybrid Network” International journal of research in Electronics and Computer engineering, Vol. 6(2), Pp 1633-1636, ISSN 2348-2281, June 2018.
13. **Abhimanyu Nain** "Nonlinearities in Radio Over Fiber Based 5G Networks" Telecommunications and Radio Engineering, 77(10):905-914 (2018).
14. Rekha, Vinod Kumar, **Abhimanyu Nain**, “Performance Estimation of Link-Compensated DWDM RoF and FSO Based Hybrid Network” Trends in Opto-Electro & Optical Communication, Volume 9, Issue 2, Pp 9-13, 2019.
15. Sheela Rani, **Abhimanyu Nain**, Suman Dahiya “Simulative Investigation of RoF and FSO Based Hybrid Network with Different Types of Fibers” Trends in Opto-Electro & Optical Communication, Volume 9, Issue 2, Pp 1-8, 2019.
16. Nitin Kumar Sharma, Abhimanyu Nain, Kuldeep Singh, Nisha Rani, Anuj Singal “Impedimetric Sensors: Principles, Applications and Recent Trends” International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-8 Issue-10, Pp 4015-4025, 2019

FDP/STC/Workshops Attended & Oeganized:

1. Attended a short term course on **Electromagnetic Theory** during 1st May 2015 – 5th May 2015 at **IIT Kanpur**.
2. Attended a one day workshop on **Intellectual Property Rights** on 21st Feb. 2015 at **GJUS&T, Hisar**.
3. Attended 28 day **Orientation Program** at **UGC HRDC, GJUS&T, Hisar** from 16/11/15 to 12/12/15.
4. Attended 5 day Short term course on “**Modeling & Simulation of Wireless Communication System**” at NIT Kurukshetra from 20-24 June 2016.
5. Attended 6 day Short term course on “**Recent Advancements in Broadband Communication Technologies and Networks**” at GJUST, Hisar from 07-12 Sept 2016.
6. Attended 5 day Short term course on “**Antenna Design & Simulation**” at NITTTR, Chandigarh from 21-25th May 2018.
7. Attended 21 day Refresher course on “**ICT**” at UGC-HRDC, GJUS&T Hisar from 1-21st Sept. 2017.

8. Attended 5 day Short term course on **“5G Communications”** at IIT Ropar, from 08-12th April 2019.
9. Organized 3 Day workshop at Deptt of ECE, GJUS&T, Hisar on **“Research tools in VLSI & Optical communication”** from 28-30th January 2019.
10. Attended and successfully completed 3 month **ARPIT/SWAYAM online refresher course on “Pedagogical Innovations & Research Methodology”** from October 2019 to February 2020.
11. Attended a one week FDP on **“Machine Learning & IoT”** at GJUST Hisar from 6th to 11th January 2020.

Administrative Assignments:

1. Module Coordinator, M.TECH (ECE)
2. Departmental TEQIP III coordinator
3. Departmental Coordinator NBA SAR committee.
4. Warden, Boys Hostel 1.
5. Member, Campus Surveillance & Security committee (CASSCO).