



(Dr. Tarana Afrin Chandel, Ph.D.)

Associate Professor, Department of Electronics and Communication Engineering, Faculty of Engineering,
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Hyperlinks of ([Google Scholar Citation](#), | [Orcid Id](#), [Scopus](#), | [Web Of Science](#), | [Research gate](#), | [linked in](#),
[Wordpress](#))

PROFILE

Profile Summary

Qualification

- **Ph.D** in Renewable Energy from Integral University
- **M.Tech** from U.P. Technical University
- **B.Tech** from Magadh University
- **Diploma** (ECE): Aligarh Muslim University

- **UGC-NET: Qualified, June 2013**

Experience

- **Academic Experience:** Since 2004 in Integral University till date

- **Industrial Experience: 5 years, 3 months**
- **Manager (QA & PPC) & Management Representative for ISO 9001** in M/S Pramode Telecom Pvt Ltd from 1 June 2003 to 25 July 2004. 1 year, 1 month
- **Jr. Engineer** in M/S Bharti Telecom Ltd , 3 years, 2 month
- **Trainee Engineer** in M/S DCM Data System , 1 year

RESEARCH INTEREST:

- Renewable Energy
- Low Power VLSI Design
- Circuits and Systems,
- Electronics Devices
- Sustainability Development Goal
- Internet of Things

SUMMARY OF RESEARCH ACCOMPLISHMENT:

Project

- **Performance Analysis of 1MW Grid Connected Solar Photovoltaic System using Image Analysis**, by Institute of Engineer, Kolkata-700020; West Bengal, India IEI in2018, Reference No is R.6/2/DR/2017-18/RDDR2017015. PSN: IU/DSR/2018-PSN002--- completed
- **Testing Of Solar Cell For Flexible Solar Panel** submitted to Jacobs Foundation Research Fellowship Program 2022 titled Testing Of Solar Cell For Flexible Solar Panel on 16 January 2022
- **A Novel Method for Determining the Effect of Salinity on Agricultural Seasonal Crops** in India, in UPCST 2016

Resource Person:

- **A Novel Approach to determine the Degradation of SPV Module using Photoluminescence Imaging**, at Annual International Congress on Renewable Energy, September 2024 September 3-5, 2024, Oxford, United Kingdom
- **Modeling of Solar Cell Using MATLAB**, five week Skill Internship Program on Application of MATLAB in Engineering, from 25 September 2023 to 28 October 2023, organized by Department of ECE, Integral University, Lucknow
- **Solar PV System Sizing**, four weeks blended value added course on Renewable Energy Technology & its Future Potential, held during June 27, 2022 to July 20, 2022, organized by electronics and communication engineering, Integral University, Lucknow, U.P
- **Harvesting Solar Energy'** in the Two Weeks Professional Development Program on Renewable Energy and it's Future in India held during November 10-23, 2021, as a Resource Person, jointly organized by the Department of Electronics & Communication Engineering, and the Department of Physics, Integral University, Lucknow.
- **Critical Role of Sensors in DRONE Innovation** on 22nd June 2018 in TechEagle-Summer UAV Training & Internship 18 from 18th Jun to 14th July 2018

Publication

- Scopus indexed journal: 11
- SCIE indexed journal: 01
- Non indexed Peer Reviewed Journals: 16
- Book Chapter (Scopus Indexed): 10
- International Conference: 12
- National Conference: 14

Reviewer

- **Section Editor on the board of following Journals: since 2015**
 - a. Journal of VLSI Design and its Advancement
 - b. Journals of Advancement in Electronics
 - c. Design Research and Applications: Embedded System
 - d. Recent Trends in Analog Design and Digital Devices
 - e. Journal of Advancement in Communication System
- Reviewer in IEEE International Conference on Computational and Characterization Techniques In Engineering & Sciences (CCTES-2024) (Reviewed 3 Paper)
- Reviewer in IGI Global publication, USA, (Scopus indexed) since June 2023.
- Reviewer in International Journal of Applied Power Engineering (IJAPE) Scopus indexed Journal, since 2023
- Reviewer in International Conference in Smart Grid (Scopus indexed), held in the Nişantaşı University, at İstanbul in Türkiye, June 27-29, 2022.
- Reviewer in Applied Solar Energy (Scopus indexed) since 2021
- Peer Reviewer in International Journal of Sustainable Development Research, since 2021
- Reviewer in Journal of Engineering Research and Reports
- Reviewer in IJRER, indexed in (Web of Science and Scopus), since 2020
- Reviewer in International Journal of Global Development and Multidisciplinary Study
- Reviewer in Hindawi Publication Corporation (Scopus indexed), since 2015
- Reviewer of International Symposium on Computational and Characterization Techniques in Engineering and Science held , on 20th March 2017 at Integral University, Lucknow, UP
- Member of Technical Program Committee in International Seminar on Modern Trends in Engineering and Science held on 3rd August 2017 at integral university, Lucknow,U.P.
- Reviewer of Second International Conference “On Advancement in Computer Engineering and Information Technology” ACEIT-2018 to be held on 6th& 7th April 2018 (Reviewed 3 papers)
- Member of Technical Program Committee in Computational and Characterization Techniques in Engineering & Sciences (CCTES-18) in IEEE conference organized by department of ECE to be held on September 14-15, 2018. (Reviewed 4 papers)

Awards and Honor

- **Academic Leadership Award as Best Professor of the Year**, 26 October 2024
- **Indo Asian – Best Researcher Award 2022** in Renewable Energy & VLSI Design for the National Science Day
- **International Teaching Excellence Award 2021** in appreciation to the teaching and research excellence in Electronics & Communication Engineering conferred on 18th December 2021
- **Incredible Academician of India** by RECORD OWNER Incredible Academicians and Researchers of INDIA 21 award held on 25 Sept.2021, No.25/9/2021/INDIA/RWIN21206
- **Excellence in Research** by RECORD OWNER , Global & Research Development Award-21'on 30, June 2021
- **Academic Excellence (Faculty-National)**, The Institution of Engineers (India), Belapur Local canter and Fr. C. Rodrigues Institution of Technology, Vashi on 16 January 2021

- **Research Excellence Ph.D.**, The Institution Of Engineers (India), Belapur Local Center and Fr. C. Rodrigues Institution of Technology, Vashi on 16 January, 2021
- **Best Research Award 2020**, for The Contribution and Honorable Achievements In Innovative Research by International Research award on **New Science Invention NESIN 2020** on 18 November 2020, for published article: Oxidation: A Dominant Source For Reduced Efficiency Of Silicon Solar Photovoltaic Modules. Identification Number: 9584
- **Best Paper presentation** title “Oxidation: A Dominant Source for Reduced Efficiency of Silicon Solar Photovoltaic Modules” in ICALMS 2K20 on 6-7 March 2020 held at CMR Technical Campus, Hyderabad, Talangana, India
- **Honored as Pride of India**, by International Publishing House, New Delhi on 12 September 2018
- **Appreciation as an Organizer**, Sponsorship Committee Chairperson & Technical Committee member in IEEE International Conference in “Computational and Characterization Techniques in Engineering and Science, CCTES-18, held on 14-15 September 2018 at Integral University, Lucknow
- **Recognition as a Reviewer** in the peer review process for GRD Journals
- **Excellent Teaching in Higher Education** for ARUNAI--International Women Research and Connect Award 2018 on 8 March 2018.
- **Best Faculty in Rural Institution**, ARUNAI- National Conference on Exploring Science and Technology for the Future Developments held on 25 November 2017
- **Best Paper Award**: Paper title “Efficient Address Generator for WiMAX Deinterleaver” in 4 National conference on Challenges & opportunities for Technical Innovation on 19th & 20th February 2016 held at Ambalika Institute of Management and Technology, Lucknow, U.P
- **Recognition as a Convener** by Microbotics Technologies Pvt. Ltd for outstanding performance and dedication in organizing “A National workshop on Arm Controlled Robotics” held from 11th to 13th February 2015 at Integral University, Lucknow, and making it a grand success.
- **Rashtriya Gaurav Award” And Certificate of Excellence for Meritorious Services, Outstanding Performance and Remarkable Role** by Dr Bishma Naraiyan Singh (Former Governor of Assam and Tamil Nadu) at the Seminar on Global Participation of India’s Economic Development at New Delhi on 24 May 2010
- **Recognition as a Reviewer** in International Journal of Global Research Development Journals for Engineering in 2010

PROFESSIONAL MEMBERSHIP:

- Member of CPACE (Center for Professional Advancement) 21C-412.
- Life member of Solar Energy Society of India since 17 March 2021
- Life member of Indian Society for Technical Education
- Life member of The Institution of Engineers (India), M-157668-7
- President and Life member of Robotic Society, Integral University since 20 April 2017 till date

COURSE TAUGHT:

M.Tech

- Microelectronics Technology
- VLSI Design
- VLSI Devices and Circuits
- ASIC Design and FPGA
- Electronics Circuit and Simulation
- Fault modulation
- Heat Transfer (for SPV)

- Optics in Solar Application (for SPV)

B.Tech

- Basic Electronics
- Digital Electronics
- VLSI design
- Microwave Engineering
- RF and Microwave Engineering
- Integrated Circuits
- Microelectronics Fabrication Technique
- Microprocessor and its Application
- Electronics Devices and Circuits

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

- **Placement Coordinator**, Department of ECE since 2018 till date
- **President Robotics Society**, Integral University since 2017 till date
- **Member** (Technical Committee) Fiesta
- **Head Examiner** (departmental) for End Semester Exams (every semester)
- **Question Paper Setter** for end semester exams (every semester)
- **Coordinator** Departmental Examination in 2018 & 2019
- **Coordinator** for Value Added course
- **Convener** in Five Week Equivalent Blended Internship Programme ECT23-01 on “Application of MATLAB in Engineering” From 25th September to 28th October 2023]
- **Convener** in Four Week Blended Internship Workshop going to held on “Application of IOT in Engineering, Science and Management” From 23rd September to 19th October 2024]
- **Curricular designing & modification** for B.Tech; Robotics (EC257) in the session 2023-24, Basic Electronics (EC101) in the session 2022-23, for M.Tech; VLSI Design in session 2005-06
- **Coordinator Summer Training** UAV/DRONE Training 2018 conducted by TechEagle Innovations Pvt Ltd from 18 June 18 to 14 July 18 at Integral University, Lucknow.
- **Convener** of the National Workshop on Arm Controlled Robotics from 11 Feb to 13 Feb 2015 at Integral University, Lucknow conducted by Microbotrics technologies pvt ltd.
- Observer in end semester exam in UPTEC (Sangam palace, civil line Allahabad) from 10 May 2012 to 28 May 2012
- **Coordinated** for an educational tour
- **Member** of Design, Printing and Promotion committee in Fiesta 2017
- **Internal Examiner** for practical for subjects
- **Coordinator of National board of Accreditation** (NBA) in 2010
- **Proctor** (Girls hostel)
- **Warden** (Girs Hostel)

STUDENTS SUPERVISION

B.Tech: 56
M.Tech: 22

M.Tech (Awarded)

- **Asfa Almas**, Roll No. 2201311001, enrolment No. 2200103941, Title: 5G New Radio Performance Optimization For Industrial Application, 2024
- **Ruby Khan**, Roll No: 2101311003, Enrol No: 1500101121, Title A Qualitative Review of Artificial Intelligence Based MPPT Techniques in PV Systems, 2023
- **Haseeb Farooqui**, Roll No: 1801311004, Enrol No: 1800102436, Title: Design Modelling and Simulation of Solar Photovoltaic System using MATLAB, 2020
- **Zoya Fatima**, Roll No: 1801311009, Enrol No:1400100457, Title: Design Modeling and Simulation of 150 KW Solar Photovoltaic System, 2020
- **Kavita Singh** Roll no: 1701116001, Enrol No: 1700102637, Title: Effect of Bypass Diode under Partial Shading in SPV Module, 2019
- **Jyotima Bharti**, Enrol No: 1500103171, Title: Efficient coding scheme for fault tolerant parallel filters. Submission , 2018
- **Kahkasha Ali**, Roll No: 1501311001, Enrol No: 1500101958, Title: Minimization of Power for the Design of Optimal Flip Flop, 2017
- **Sana Ur Rehman**, Roll No:1501311005, Enrol no: 1500100972, Title: Schematic Design and Layout of Digital Circuits Using CMOS Technology, 2017
- **Faheem Husain Wani**; Roll no: 1400131003; Enrol no: 400101784, Title: Efficient Implementation of Address Generator for WiMAX Deinterleaver with different modulation Scheme (2015-2016). 2016
- **Sameer Gull Alie**; Roll No: 1200131022, Enrol no: Title: Power and Delay Optimize Edge Triggered Flip Flop for Low Power Microcontroller ,, 2014
- **Suhail Ahmad Beg**, Roll no: 1200131025 enrolment no:1200102438 Title: Design of Inductive Degenerate 2.5 GHz LNA using 0.13 μm Technology, 2014
- **Jahangir Rashid Dar**, Roll no: 1200131009, Enrolment No: 1200102513 Titles: Novel Power, Energy- Efficient Full Adder for Ultra Deep-Submicron Technology (2013-2014). Submitted on: 05/05/2014
- **Ahsan Ul Haq Mansoor**; Enrol no: 1200102439, Roll no: 1200131002 Title: A Highly Quantro 10 T SRAM CELL with Soft Error Robustness and High Signal to Noise Margin, 2014
- **Fahmida Khatoon**, Roll no: 12001310, Enrolment no: 0800Title: Design of Ring VCO Using Nine Stages of Differential Amplifier, 2014

- **Lubna Naim** Roll No: 1100131008 Enrol no: 1100102318, Title: Design of Low Power Pseudo-Random Pattern Generation for BIST Application, 2014
- **Shabeer Ahmad Ganie** Enroll no: 1100102314, Roll no: 1100131016, Title: Design and Delay Efficient Configurable Booth Multiplier For High Speed Application Submitted on: 31/7/2013
- **Sajad Ahmad Ganie** Enrol no: 1100102316, Roll no: 1100131013 Title: FPGA Design of 4X4 Switch for Multiprocessor System on Chip (MPSoC) Using Round Robin Arbitration. Submitted on: 31/7/2013
- **Rajeev Saxena**, Enrol No: 1100102500 Roll No: 1100131012 , Title: Image Compression using Neural Network with Levenberg-Marquardt Algorithm, 2013
- **Avdesh Kumar Yadav**, Enrol No: 1100102312, Roll no: 1100131005, Title: Digital Image Watermarking using Discrete Wavelet Transform, 2013
- **Sarita Srivastava**, Roll No: 10001311010; Enrolment no: Title: Design of IIR Filter using VHDL; 2012
- **Asjad Kamal**, Enrolment no: 1000101608 Roll no: 1000131008 Title: Design of SDRAM controller using VHDL, 2013
- **Rajeev**, Roll no: 1000101600 Title: Design and Implementation of Tuneable Universal Filter, 2013

PUBLISHED/GRANT PATENTS

- ***Systematic Approach to Unlock the Full Potential of Perovskite Solar Cell Technology through Machine Learning***, Application No. 202341041297, date of filing 17/06/2023, published on 1 September, 2023
- ***Low Cost Micro Crack Measuring Instrument For Detection Of Faults On Site In Solar Panels*** Application No: 202111035684, published on 2 June 2023
- ***Low-Cost Instrument to Detect the Degradation of the Pharmaceutical Formulations Based Medicines***, Application No. 202111059361, published on 24 June 2022

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- **Tarana Afrin Chandel, M.Y Yasin, M A Mallick, (2023) *Impact of parasitic resistance on modeling and performance of solar photovoltaic module***, IEEE Conference held on 17-19 March 2023 at Graphics Era Deemed University, Dehradun, pp.22-27, published in IEEE Explore, ISBN: 978-1-6654-7492-4, Impact Factor: 14.99, published date on IEEE exploe:1May 2023, DOI: [10.1109/DICCT56244.2023.10110047](https://doi.org/10.1109/DICCT56244.2023.10110047)

- **Tarana Afrin Chandel, M A.Mallick, M Y Yasin, (2020), *Oxidation: A Dominant Source for Reduced Efficiency of Silicon Solar Photovoltaic Modules*, Material Today: Proceedings, Journal Elsevier, Volume/Issue 27/Part2, 2020 pp: 1092-1098, ISSN 2214-7853, Impact factor:1.46, Accepted on 26 February 2020, Published online on 23 June 2020**
- **Zoya Fatima, Tarana Afrin Chandel, M.Y Yasin (2020), *Design Modeling and Simulation of 150 Kw Solar Photovoltaic Systems: A Review*, International Journal of recent technology and Engineering, Volume-9 Issue-2, 30 July 2020, ISSN:2277-3878, pp, Scopus and UGC indexed journal, impact factor:0.675, URL: <https://www.ijrte.org/download/volume-9-issue-2/> h-index:2, accepted on 26 Jun 2020, DOI: accepted on 26 Jun 2020, DOI:10.35940/ijrte.F8753.079220, pp:703-706, Impact factor: 0.675**
- **Tarana Afrin Chandel, M Y Yasin, M A.Mallick, (2020), *Performance of Rooftop Grid Connected Solar Photovoltaic System*, International Journal of recent technology and Engineering (IJRTE), Volume-9 Issue-1, May 2020 in Regular Issue on 30 May 2020, ISSN:2277-3878, pp:1056-1062, impact factor: 0.56, Scopus and UGC indexed journal, <https://www.ijrte.org/download/volume-9-issue-1/>, h-index:3, accepted on 29/03/2020, pp:1056-1062, DOI: 10.35940/ijrte.F9367.059120, Impact factor: 0.675**
- **Tarana Afrin Chandel, M A.Mallick, M Y Yasin (2019), *Modeling and Simulation of Photovoltaic Cell using Single Diode Solar Cell and Double Diode Solar Cell Model*, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-10, August 2019, Scopus and UGC indexed journal, B-impact factor 0.546, DOI:10.35940/ijitee.J8863.0881019 URL:<https://www.ijitee.org/download/volume-8-issue-10/> ,Accepted:13/07/2019, Impact factor: 5.97**
- **Tarana Afrin Chandel, M A.Mallick, M Y Yasin (2019), *Modeling and Simulation of Photovoltaic Cell using Single Diode Solar Cell and Double Diode Solar Cell Model*, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-10, August 2019, Scopus and UGC indexed journal, B-impact factor 0.546, , DOI:10.35940/ijitee.J8863.0881019 URL:<https://www.ijitee.org/download/volume-8-issue-10/> ,Accepted:13/07/2019, Impact factor: 5.97**
- **Kavita Singh, Tarana Afrin Chandel, Mohd. Khursheed Siddiqui, Md. Arifuddin Mallick, (2019), *Effect of Bypass Diode under Partial Shading in SPV Module*, International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958, Volume-8 Issue-5, June 2019, Scopus and UGC indexed journal, pp: 2215-2219 impact factor 5.970, URL: <http://www.ijeat.org/download/volume-8-issue-5/>, DOI:10.35940/ijeat.E7483068519 impact factor: 5.97**
- **Kavita Singh, Tarana Afrin Chandel, Saif Ahmad, (2019), *Effect of Bypass Diode under Partial Shading in SPV Module: A Review*, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8, Issue-1, May 2019, Scopus and UGC indexed journal, journal, URL:<https://www.ijrte.org/download/volume-8-issue-1/>, DOI:10.35940/ijrte.F2818037619/19, h-index:3, Impact factor: 0.0675, pp: 700-704**
- **Tarana Afrin Chandel, M.Y Yasin, M A Mallick (2019), *Performance of Partially Shaded Solar Photovoltaic System*, International Journal of recent technology and Engineering, Volume 7,**

issue 6 ISSN:2277-3878, pp 1444-1449, Scopus and UGC indexed journal,, h-index:2, published by Blue Eyes Intelligence Engineering and Sciences Publication, MCN No: MCN IU/R&D/2019- MNC 000546, DOI:10.35940/ijrte.F2690037619, Impact factor: 0.675
<https://www.ijrte.org/download/volume-7-issue-6/>

- Faheem Hussain Wani, **Tarana Afrin Chandel** (2016), ***Efficient Implementation of Address generator for WiMax Deinterleaver with different Modulation scheme***, International Journal of Engineering Trends and Technology, ISSN: 2231-5381, vol 34, number 5, April 2016. , published by Seventh Sense Research Group, Impact Factor: 1.656, Scopus Indexed, DOI: 10.14445/22315381/IJETT-V34P274 ISSN:2231-5381, Researcher id: IJETT-V34P274 Impact factor: 2,45, pp 230-234 scopus indexed
- **Tarana Afrin Chandel**, (2014), ***Segregation of Accoustic Signal Using Wavelet Transform***, International Journal of Electronics and Communication Engineering and Technology (IJECET), volume 5, issue 4, pp 50-56, April 2014.Journal Impact Factor (2014): 7.2836 (Calculated by GISI)., publication: IAEME,ISSN 0976 – 6472 Scopus index journal
- Ahsan Ul Haq Manzoor, **Tarana A Chandel**, Suhail Beg (2014), ***A Highly Efficient Quatro 10T SRAM CELL with Soft Error Robustness and High Signal to Noise Margin***, International Journal of Emerging Technology and Advanced Engineering (IJETAE) , Volume 4, Issue 3,pp 603-608 March 2014.impact factor: 2.587,doi=10.1.1.638.1327, ISSN 2250-2459 indexed in Scopus

PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

- **Tarana Afrin Chandel** (2024), ***A Novel Approach to determine the Degradation of SPV Module using Photoluminescence Imaging***, at Annual International Congress on Renewable Energy, September 3-5, 2024, Oxford, United Kingdom
- **Tarana Afrin Chandel** (2023) ***Innovations in Renewable Energy for Sustainable Agriculture***, 4th Global Multi-Track Virtual Conference “STAR 2023” (Strategies, Applications, Techniques and Resources 2023), from October 08 – 14, 2023, organized by Human Resource Development Center (HRDC) & Internal Quality Assurance Cell (IQAC), Integral University, India in association with Centro Universitario Unifacvest, Brazil, South America & Special Minds, India
- **Tarana Afrin Chandel** (2023), ***Impact of Parasitic Resistance on Modeling and Performance of Solar Photovoltaic Module***, International Conference on Device Intelligence, Computing, and Communication Technologies (DICCT-2023) March 17-18, 2023, Graphic Era, deemed University, DEHRADUN
- **Tarana Afrin Chandel** (2020), ***Oxidation: A Dominant Process for Reduced Efficiency of Silicon Solar Modules*** International Conference on Advanced light-weight materials and structures, ICALMS - 2k20 held on 6 - 7 march 2020 by CMR Campus, Hyderabad- 501401, and Telangana, India.

- **Tarana Afrin Chandel** (2018), **Performance Analysis of Solar Photovoltaic Panel using Nanotechnology: A Review** with paper code:01-2018-378 in International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing(EECCMC) 2018 with catalog: "CFP10037-PFT: 978-1-5386-4303-7" organized by Priyadarshini Engineering College, Vellore District, Tamil Nadu, India, during 28 7 29 January 2018.
- Tarana Afrin Chandel (2018), Poster Presentation titled "**Performance Analysis of 1MW Grid Connected Solar Photovoltaic System using Image Analysis**", IEEE International Conference in Recent Advances in Engineering, Technology and Computer Science-2018 organized by Shepherd Institute of Engineering and Technology SHAUT, Allahabad during 6th to 8th February 2018
- Nehad Nazim and **Tarana Afrin Chandel** (2017), **Nanotechnology for Smart Civil Engineering in International Seminar on Present Scenario & Future Prospective of Research in Engg & science** held on 21 January, 2017 at Integral University Lucknow, India
- **Tarana Afrin Chandel** (2017) **Solar Panel Rooftop in India** in International Seminar on Present Scenario & Future Prospectives of Research in Engg & science held on 21 January, 2017 at Integral University Lucknow, India
- **Tarana Afrin Chandel** (2017), **Sewage treatment Coach for Indian Railways in International Seminar on Present Scenario & Future Prospective of Research in Engg & science** held on 21 January, 2017 at Integral University Lucknow, India
- **Tarana Afrin Chandel** (2017), **Application Of Fuzzy Logic In The Field Of Electronic Circuit Design**, International Symposium on Computational and Characterization Techniques in Engineering and Science on 20th March 2017 at Integral University, Lucknow
- **Tarana Afrin Chandel** (2017), **Design of Full Adder using Complementary Pass Transistor logic** in International Seminar on Modern Trends in Engineering and Science, IEI, held on 03 August 2017
- Participated in International Conference on Wireless Communication and Sensor Network held on 17 to 19 December 2006 at IIT Allahabad.

PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

- **Tarana Afrin Chandel**, Asfa Almas, (2024), **5G New Radio (5G NR) Performance Optimization for industrial Application**, International Journal of Research and Development in Applied Science and Engineering. Vol 24, issue1, 2024
- Ruby Khan, **Tarana Afrin Chandel**, (2023), **A Qualitative Review of Artificial Intelligence Based MPPT Techniques**, International Journal for Science and Advance Research In Technology (IJSART) - Volume 9 Issue 2, FEBRUARY 2023 ISSN [ONLINE]: 2395-1052, <https://ijsart.com/Home/IssueDetail/59201>,
- Mohammad Haseeb Farooqui , **Tarana Afrin chandel** , Md Yusuf Yasin, (2020), **Modeling And Simulation of Solar Photovoltaic System Using MATLAB**, International Journal for Science and Advance Research in Technology <http://ijsart.com/Home/IssueDetail/40439> (IJSART) - Volume 6 Issue 9 – Publication Date: 12 SEPTEMBER 2020, ISSN [ONLINE]: 2395-1052, impact factor: 6.22,

- Jyotishma Bharti, **Tarana Afrin Chandel**, (2017), ***Fault Tolerant Parallel Filter in Digital Communication Systems***, SSRG International Journal of Electronics and Communication Engineering (SSRG-IJECE) – Volume 4 Issue 9 – September 2017, doi 10.14445/23488549/IJECE-V4I9P101 ISSN: 2348 – 8549 impact factor 1.13 pp 1-3, h-index:2
- Jyotishma Bharti, **Tarana Afrin Chandel**, (2017), ***Implementation of Fault tolerant FIR Filter for Digital Communication system***, GRD Journals- Global Research and Development Journal for Engineering | Volume 2 |, Issue 9 August 2017, ISSN: 2455-5703, Impact Factor: 2.018, pp 5-11, h-index:3, , indexed in ICI, Publisher- GRD Journals
- Kahkashan Ali, **Tarana Afrin Chandel**, (2017), ***Minimization of Power for the Design of an Optimal Flip Flop***, SSRG International Journal of Electronics and Communication Engineering (SSRG-IJECE) Volume 4 Issue 7 – July 2017, pp 25-31 impact factor 1.13, ISSN No 2348 - 8549: DOI:10.14445/23488549/IJECE-V4I7P105
- Sana Ur Rahman **Tarana Afrin Chandel**, (2017), ***Schematic Design and Layout of Flipflop using CMOS Technology***, SSRG International Journal of Electronics and Communication Engineering (SSRG-IJECE) – Volume 4 Issue 7 – July 2017, pp 16-19 impact factor 1.13, ISSN No 2348 – 8549, publisher: Seventh Sense Research Group® (SSRG) DOI:10.14445/23488549/IJECE-V4I7P103
- Sana Ur Rahman, **Tarana Afrin Chandel**, (2017), ***Schematic Design and Layout of Digital Circuits using CMOS Technology: A Literature Survey***, GRD Journals- Global Research and Development Journal for Engineering, ISSN: 2455-5703, Volume 2 | Issue 5 | April 2017, Manuscript: ID: GRDJEV02I050111, Impact Factor: 1.0681, Page 123- 124, Publisher: GRD Journals, Accepted on 14/04/2017, indexed in ICI, Publisher- GRD Journals, pp; 123-124
- Shipra Srivastava, **Tarana Afrin Chandel**, (2015) , ***Detection of Rapid Eye movement disorder with the help of shot time frequency applied on EEG signal***, International Advanced Research Journal in Science, Engineering and Technology Vol. 2, Issue 9, September 2015, ISSN (Online) 2393-8021, Impact factor 4.821, doi: 10.17148/iarjset.2015.2904, published by Tejass Publishers, paper is: 10.17148index in crossref, pp 14-17
- Mohammad Mohsin, **Tarana Afrin Chandel**, (2014), ***Metro Train prototype using ATmega-16 microcontroller***, International Journal of Advance Scientific Research and Technology (IJAST) September 2015 Impact Factor: 0.475, Issue 5 volume 6, September-October 2015, ISSN 2249-9954, page: 47 – 50
- Fahmida Khatoon, **Tarana Afrin Chandel** (2014), ***Design of Ring VCO using Nine Stages of Differential Amplifier***, International Journal of Research in Engineering and Technology, eISSN: 2319-1163 | pISSN: 2321-7308, Volume: 03 Special Issue: 10 | NCCOTII 2014 | Jun-2014, publication : BM Publishing, Impact Factor:3.935 by ISRA , ICV: 41.62 page : 120 – 123 manuscript number: IJRET20140322025, DOI: 10.15623, publisher eSAT
- Sameer Gull Alie, **Tarana Afrin Chandel**, Jehangir Rashid dar (2014), ***Power and Delay Optimized Edge Triggered Flip-Flop for low power microcontrollers***, International Journal of Scientific and

Research Publications, Volume 4, Issue 5, May 2014, impact factor 2.07, publication: IJSRP, page 1-6, doi:10.13140, manuscript no: 0514/ijrsrp-p2942. ISSN 2250-3153 impact factor: 0.69 indexed in Index Copernicus

- Suhail Ahmad Beg, **Tarana Afrin Chandel**, Ahsan Ul Haq Manzoor (2014), **Design of Inductively Degenerated 2.5 GHz LNA using 0.13 μ m Technology**, International Journal of Engineering Sciences & Research Technology (IJESRT), volume 3, issue4, pp1908-1911, 2014 April 2014, IMPACT FACTOR: 0.786. doi: ijesrt/D42/14, accepted 21march 2014 thomson router, ISSN: 2277-9655 indexed in UGC til2019
- Lubna Naim, **Tarana A Chandel**, (2014), **Implementation of Modified Test Pattern Generator for BIST Application**, International Journal of Advances in Engineering & Technology (IJAET), Volume 7 Issue 1, pp. 135-142, March. 2014. Publication: IRA Publications, manuscript id : Paper Reference ID: IJAET0319383, impact factor 3.43, ISSN: 2231-1963
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