

CURRICULUM VITAE

Dr. SHAMEEM AHMAD

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Academic Profile

Currently working as Assistant Prof. in E&TC Dept. MMANTC, Malegaon. (From 5/3/21)

Academics	Year of Passing	Institute	Branch	Board/University	Percentage/ CGPA
Ph.D	2021	ZHCET, AMU	Electronics Engineering	AMU	
M.Tech	2014	ZHCET, AMU	Nanotechnology	AMU	8.944
B.Tech	2011	SSITM, Aligarh	ECE	GBTU, Lucknow	71.20
12 th	2007	SDIC, Ghaziabad	Physics, Chemistry & Math	UP Board	56.6
10 th	2005	SDIC, Ghaziabad	Hindi, Urdu, Maths ,Science, Social Science, Sanskrit	UP Board	55.33

Work Experience:

- Currently working as Assistant Prof. in E&TC Dept. MMANTC, Malegaon. (From 5/3/21)
- Worked as a Research Assistant at IIT Delhi From 1/9/19 to 30/11/19.

Academic Achievements

- Developed a Certificate III course in Robotics and Automation for MIANZ International college, Maldives.
- Qualified GATE 2011 with Score 406.
- Qualified GATE 2013 with Score 503.
- Qualified NET 2015.
- Awarded prestigious CSIR Direct-SRF fellowship.

Subjects Taught:

- **Fundamentals of Microcontroller and Applications (Intel 8051)**
- **Advanced Microcontroller and Embedded Systems, (PIC18F458)**
- **Microcontrollers (Intel 8051, PIC18f4553)**
- **Microprocessor (Intel 8086 & 80386).**
- Basic Electronics Engineering
- Basic Electrical Engineering,
- Advance Control System, Signal and System,

Publications:

SCI Indexed Journals:

1. Syed Afzal Ahmad, Naushad Alam & Shameem Ahmad, Suppression of P-I-N forward leakage current in tunnel field effect transistor. *Semiconductor Science and Technology*. (2023) doi:10.1088/1361-6641/aceb16.
2. Mohd Adil Raushan, Mohd Yasir Bashir, Nishad Srikant, Shameem Ahmad, and M. J. Siddiqui. Introduction of Metal Layer in Junctionless Accumulation Mode FET:-Proposal and Analysis. *Silicon* (2022) doi:10.1007/s12633-022-01879-1
3. Mohd Yasir Bashir, Mohd Adil Raushan, Shameem Ahmad, and M. J. Siddiqui, "Investigation of Gate Material Engineering in Junctionless Transistor for Digital and Analog Applications," *Silicon*, Mar. 2021, doi: 10.1007/s12633-021-01066-8.
4. Himanshu Gupta, Shameem Ahmad, Sandhya Kattayat, Dheeraj Kumar, Saurabh Dalela, M.J. Siddiqui, P.A. Alvi, "Improvement in efficiency and luminous power of AlGaIn-based D-UV LEDs by using partially graded quantum barriers", *Superlattices and Microstructures*, 142 (2020) 106543, Jun. 2020.
5. Samreen Zafar, Mohd Adil Raushan, Shameem Ahmad and M. J. Siddiqui, "Reducing off-state leakage current in dopingless transistor employing dual metal drain", *Semiconductor Science and Technology*, 35(1), 015016, 2020. <https://doi.org/10.1088/1361-6641/ab542b>
6. Shameem Ahmad, Shalendra Kumar, Savaş Kaya, P. A. Alvi and M. J. Siddiqui, "Improvement in efficiency of yellow Light Emitting Diode using InGaIn barriers and modified electron injection layer," *Optik - Int. J. Light Electron Optics*, vol. 206, p. 163716, Mar. 2020.
7. Shameem Ahmad, M. A. Raushan, Himanshu Gupta, Sandhya Kattayat, Shalendra Kumar, Saurabh Dalela, P. A. Alvi, M. J. Siddiqui, "Performance enhancement of UV quantum well light emitting diode through structure optimization," *Optical and Quantum Electronics*, vol. 51, no. 7, p. 243, 2019..
8. Shameem Ahmad, Mohd Adil Raushan, S. Kumar, S. Dalela, M. J. Siddiqui, and P. A. Alvi, "Modeling and Simulation of GaIn based QW LED for UV Emission," *Optik - Int. J. Light Electron Optics*, vol. 158, pp. 1334–1341, 2018.
9. Md Tanwir Alam, Tarique Ahmad, Abdunaser M. Alshoaibi Abdul Aziz, Dilawar Husain and Shameem Ahmad, "Comprehensive Study on the Properties of AZ91/x-Si3N4 Composites for Their Prospective Application," *Applied Sciences*. 2024; 14(11):4444. <https://doi.org/10.3390/app14114444>.

Scopus Indexed Journals:

1. Sajid Naeem, Arun V. Patil, Arif V. Shaikh, U. P. Shinde, Dilawar Husain, Md Tanwir Alam, Manish Sharma, Kirti Tewari, Shameem Ahmad, Aqueel Ahmed Shah, Syed Abbas Ali, and Akbar Ahmad. A Review of Cobalt-Based Metal Hydroxide Electrode for Applications in Supercapacitors. *Advances in Materials Science and Engineering*. 2023, 1–15 (2023).
2. Akhter, S. M. H., Siddiqui, V. U., Ahmad, S., Husain, D., Naeem, S., & Alam, M. T. (2024). Sustainable synthesis of zinc oxide nanoparticles using Terminalia chebula extract: Effect of concentration and temperature on properties and antibacterial efficacy. *Nano-Structures & Nano-Objects*, 38, 101158. <https://doi.org/10.1016/j.nanoso.2024.101158>

Book Chapters:

1. Ahmad, S. et al. Ecological Footprint Assessment of e-Waste Recycling. in Environmental Assessment of Recycled Waste (ed. Muthu, S.) 67–83 (Springer Singapore, 2023). doi:10.1007/978-981-19-8323-8_5.
2. Raushan, M. A., Mustaqeem, M., Ahmad, S. & Siddiqui, M. J. Impact of Pocket in a Doping-Less Tunnel Field Effect Transistor. in Proceedings of 6th International Conference on Recent Trends in Computing 2021 189–196 (Springer, 2021). doi:10.1007/978-981-33-4501-0_18.
3. Baig, M. S. et al. Carbon Footprint and Economic Assessment of LED Bulbs Recycling. in Environmental Assessment of Recycled Waste (ed. Muthu, S. S.) 29–41 (Springer, Singapore, 2023). doi:10.1007/978-981-19-8323-8_3.

International Conferences:

1. Farhan Khan, Shameem Ahmad, M.J. Siddiqui, P. A. Alvi, “Performance Enhancement of GaN based blue LEDs using Bandgap Engineering in EBL and Quantum Wells,” in 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), 2020, pp. 1–5.
2. “Performance analysis of AlGaN led for D-UV emission” in 3rd International Conference on Condensed Matter & Applied Physics (ICC-2019), Bikaner India.
3. “Improvement in Efficiency droop of green Light Emitting Diode using lattice matched barrier” in IEEE International Conference “ICACCP 2019” at SMIT, Sikkim, India.
4. “Achievements and Limitations of UV-LEDs: A Critical Review” in IEEE International Conference “EECCMC 2018” at Priyadarshini Engineering College, Vellore, India.
5. “Achievements and Perspectives of GaN based Light Emitting Diodes: A Critical Review” in IEEE International Conference “ICEI 2017” at SCAD College of Engineering and Technology at Tirunelveli, India.
6. “Synthesis and characterization of Ni Doped TiO₂ Nanoparticles by Sol-Gel Method” in International Conference “ICAMPE 2015” at MGU, Kottayam, India.
7. “Efficiency Enhancement of Blue Light Emitting Diode using lattice matched Quantum barrier and modified Quantum Well” in 2022 “IEEE Delhi Section Conference (DELCON) 1–7 (IEEE, 2022)”. doi:10.1109/DELCON54057.2022.9752984.

Workshops:

1. Attended one week workshop on “Advance Embedded System” at AMU (2016).

2. Poster presentation on “Recent Development and Future Perspectives of Dye Sensitized Solar Cell” in International conference of nanotechnology “Aligarh NANO IV” at AMU (2014).
3. Attended two day National conference of nanotechnology “Aligarh NANO III” at AMU (2013).
4. Attended one day workshop on “Wireless Broadband Systems” at AMU (2011).
5. Attended one day workshop on “VLSI Design & Technology” at AMU (2010)

FDPs done:

- 5 days FDP on “**VLSI to system Design: Silicon to End Application Approach**” organized by **AICTE, ARM & STMicroelectronics**.
- 5-day online FDP on the theme “**Inculcating Universal Human Values in Technical Education**” organized by **AICTE**.
- 5-day Online Elementary FDP on “**Academic Leadership & Management of Technical Education**” by Faculty of Engg & Technology, Gurukul Kangri University, Haridwar.

PROJECT UNDERTAKEN

B.Tech Project:

Microcontroller based wireless control of dc motor with GSM.

M.tech Dissertation:

Fabrication and study of Dye Sensitized Solar Cell using Ni doped TiO₂ Nanoparticles.

Ph.D Topic:

Simulation and Modelling of III-V Group Light Emitting Diodes.

Software Skills

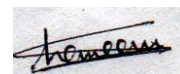
Basic knowledge of C & C++ Embedded C, SILVACO ATLAS TCAD, Arduino IDE, MPLABX, Kiel uVision

Personal Details

Date of Birth : September, 19, 1990
Father’s Name : Nasruddin
Mother’s Name : Anisha
Gender : Male
Nationality : Indian
Marital Status : Married
Language Known : English, Urdu, and Hindi
Permanent Address : 49, Street No. 4, Hindon Vihar, Meerut Moad, Ghaziabad.: 201003

Declaration

I hereby declare that all the information mentioned above are true and correct to the best of my knowledge and belief.



PLACE: Malegaon

(Shameem Ahmad)