

## C.V.

**Full Name** : DR. PARAGJYOTI GOGOI  
**Date of Birth** : 06 - 01-1978  
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**Contact Number** : 098548 09816 / 7002620762 (M)  
**Date of Joining** : 01-07-2008  
**Academic Qualification** :  
*M.Sc.:* Dibrugarh University in Physics (Specialization- Electronics), 2002.  
*Ph.D.:* Dibrugarh University in Physics in 2008.  
*Thesis title:* *Properties of Germanium Thin Film Transistors.*  
**Designation** : Assistant Professor (III), Department of Physics,  
Sibsagar College, Joysagar, Assam.  
**Research Interest** :Thin film studies and device fabrication  
Nanotechnology and Photonic device fabrications.

### Research Publication (in National and International Journals/Seminars)

1. “An analytical model for polycrystalline thin film transistors”, K. Konwar, P. Gogoi and B. Baishya,; *Proceedings of National Symposium on Instrumentation –30* (NSI-30), page 471-479, (2005).
2. “A study of Ge-thin film transistors with rare earth oxides as gate insulators”, P. Gogoi, K. Konwar and B. Baishya; *Indian Journal of Physics*, vol. 80 (10), page 1021-1023, (2006).
3. “Effect of copper interlayer on thermally deposited polycrystalline Ge- thin film transistors fabricated on glass substrates”, P. Gogoi, K. Konwar and B. Baishya; *Indian Journal of Physics*, vol. 81 (5 & 6), page 567-572, (2007).
4. “Organic thin film transistors with dysprosium oxide” K. Konwar, P. Gogoi and B. Baishya, *Acta Ciencia Indica*, vol. XXXIII P. No. 3, page 321-324, (2007).
5. “Performance of thermally deposited polycrystalline Ge- thin film transistors with a copper interlayer fabricated on glass substrates”, P. Gogoi, K. Konwar and B. Baishya; *Indian Journal of Physics*, vol. 82 (5), page 577-583 (2008).
6. “Naphthalene and pentacene based organic thin film transistors with  $\text{La}_2\text{O}_3$  as the gate insulator”, K. Konwar, P. Gogoi, and B. Baishya; *Indian Journal of Physics*, vol. 82 (5), (2008).
7. “Effect of working temperature on Ge-Nd $2\text{O}_3$ , Ge-Dy $2\text{O}_3$ , Ge-Eu $2\text{O}_3$  and Ge-La $2\text{O}_3$  TFTs”, P. Gogoi, K. Konwar and B. Baishya, *Optoelectronics and Advanced Materials – Rapid Communications*, Vol. 4, No. 5, p. 665 – 667, May (2010)
8. “Spectroscopic studies on Ag/PVA nanocomposite thin films prepared by thermal annealing process”, Rajib Saikia, P. Gogoi, P. K. Baruah and Pranayee Datta; *International Journal of Nanoscience*, vol. 10, No. 3, page 427-432, (2011).
9. “Effect of Ag-doping on the electrical properties of thermally deposited CdS-La $2\text{O}_3$  TFTs, P. Gogoi and R. Saikia; *International Journal of Electronics*, Vol. 99, (6), Page 869-876, (2012).

10. **“Fabrication of Ag /PVA nanocomposites and their potential applicability as dielectric layer in thin film capacitor”**, R. Saikia, P. Gogoi and P. Datta; *Journal of Experimental Nanoscience*, vol. 8 issue 2, page 194–202 (2013).
11. **“Thermally deposited Ag-doped CdS TFTs with high – k rare-earth oxide Nd<sub>2</sub>O<sub>3</sub> as gate dielectric”**, P. Gogoi, *Semiconductor*, vol. 47, No. 3, page 341-344 (2013).
12. **“ZnO TFTs prepared by chemical bath deposition technique with high-k La<sub>2</sub>O<sub>3</sub> gate dielectric annealed in ambient atmosphere”**, P. Gogoi *et al.*, *Phys. Status Solidi A*, vol. 212, No. 4, page 826–830 (2015) / DOI 10.1002/pssa.201431605.
13. **“Top gate ZnO–Al<sub>2</sub>O<sub>3</sub> thin film transistors fabricated using a chemical bath deposition technique”**, P. Gogoi., R. Saikia, and S. Changmai, *Journal of Semiconductors*, vol.36, No. 4, page 044002-1-4, (2015), DOI: 10.1088/1674-4926/36/4/044002.
14. **“Plasmonic metal polymer nanocomposites for electronics and photonic applications”**, R. Saikia, P. Gogoi, and D Saikia, *Jof Frontline Research*, vol. 4, page 53-59 (2015).
15. **Sol-Gel Derived Dip Coated ZnO–La<sub>2</sub>O<sub>3</sub> Thin Film Transistors**, P Gogoi, R Saikia, UJ Mahanta, *ECS Journal of Solid State Science and Technology* 7 (11), Q206
16. **Oxygen annealed ZnO-La<sub>2</sub>O<sub>3</sub> TFTs fabricated using CBD technique**, P. Gogoi, R. Saikia and Utpal Jyoti Mahanta, *Journal of Physics Conference Series IOP* 1330 (1), 1-8 (2018).
17. **Design optimization and fabrication of a wideband microwave absorber based on dual-phase dielectric semi-metallic nanocomposite**, *Journal of Physics and Chemistry of Solids*, U J Mahanta, N S Bbhattacharya, I Hussain, P Gogoi and P J Gogoi Vol. 127, April 2019, P-202-212.
18. **Design of Four Layer Microwave Absorber Based on Polyaniline-Expanded Graphite Composites: Role of Layer Interfaces in Impedance Matching**, *ECS Journal of Solid State Science and Technology*, Utpal Jyoti Mahanta, Parag Jyoti Gogoi, Munu Borah, Abdul Hakim<sup>3</sup>, Karabi Gogoi and Jyoti Prasad Gogoi, Vol. 9, No. 10, (2020).
19. **Large Capacitive Density in parallel Plate Nanocapacitors due to Coulomb Blockade Effect**, R. Saikia and P Gogoi, *International Journal Thin Film Science and Technology*, 10 No. 2, 89-93 (2021).

## Seminar/workshop attended

### Seminar attended

1. National Conference on *Condense Matter Physics 2004(CMDAYS-04)*, 25<sup>th</sup> - 27<sup>th</sup> August' 2004, North-Eastern Hill University, Shilong, Meghalaya.
2. National Conference on *Condense Matter Physics 2005(CMDAYS-05)*, 29<sup>th</sup> - 31<sup>st</sup> August 2005, Berhampur University, Berhampur, Orissa.
3. *National Symposium on Instrumentation(NSI-30)*, 30<sup>th</sup> November - 2<sup>nd</sup> December' 2005, Instrument Society of India in Department of Instrumentation and Sophisticated Test and Instrumentation Centre, Cochin University of Science and Technology, Cochin, Kerala.
4. 5<sup>th</sup> Conference of *Physics Academy of North East(PANE)*, 1<sup>st</sup> and 2<sup>nd</sup> March' 2007, Department of Physics, Gauhati University, Guwahati, Assam.

5. **International Conference on Condense Matter Physics 2007 (ICCMP-07) and Fifth Annual Convention of Rajasthan Physics Association**, 25<sup>th</sup> November - 28<sup>th</sup> November' 2007, Rajasthan Physics Association, Jaipur, Rajasthan.
6. National Seminar on “**Urban Waste Disposal and its Impact on Environment and Public Health: Quest for Solutions**” 23<sup>rd</sup> - 25<sup>th</sup> September, 2010, organized by Dept. of Chemistry, Sibsagar College, Joysagar, Assam.
7. National Conference on **Condensed Matter Physics (CMDAYS -11)**, 24<sup>th</sup> -26<sup>th</sup> August, 2011, organized by Dept. of Physics, Gauhati University, Guwahati, Assam.
8. International Seminar and Workshop on “**Energy, Sustainability and Development**”, 12<sup>th</sup>-14<sup>th</sup> October, 2012, organized by Department of Physics, Sibsagar College, Joysagar, Assam.
9. National Conference on **Physical Sciences**, 13<sup>th</sup> -14<sup>th</sup> September, 2013, organized by Department of Physics, D.S.S.K. College, Dibrugarh, Assam.
10. **National Seminar and workshop in Advances in Science and Technology**, 2016 (NSWiAST-2016), 9<sup>th</sup> -11<sup>th</sup> September, 2016, organized by Department of Physics and IQAC, Sibsagarr College, Joysagar, Assam in association with NEIST-Jorhat, Assam.
11. 25th **National Conference on Condensed Matter Physics -Condensed Matter Days-2017 (CMDAYS-17)**, 29-31 August 2017, Organized by Department of Physics, Tezpur University, Napaam, Tezpur- 784028, Assam.
12. **XI PANE conference**, 21<sup>st</sup> -24<sup>th</sup> November, 2018, Department of Physics, Assam University, DiphuCampaus, Diphu.
13. **National Seminar and Workshop on Applications of Nanotechnology and Biotechnology in daily life. (NSW-ANBDL)-19**, 26<sup>th</sup>-28<sup>th</sup> Sep. 2019, organized Sibsagar College, Joysagar.
14. **Progresses in Material Science Research- (PMSR-2020)**, 4<sup>th</sup> -6<sup>th</sup> February, 2020, organized by Department of physics, Dibrugarh University, Dibrugarh
15. **National Webinar on Opportunities and Challenges in Material and Space Science-2021 (NWOCMSS-2021)**' on the 24<sup>th</sup> July 2021, organized by department of physics, Sibsagar College, Joysagar, Assam.

### **Workshop attended**

1. DST sponsored workshop on “**Sensors for Agricultural and Industrial Applications**”, 20<sup>th</sup> September-1<sup>st</sup> October' 2004, organized by Department of Physics, Dibrugarh University, Dibrugarh, Assam.
2. DAE-BRNS sponsored “**Three day School on Foundation of Plasma Physics and Technology for Young Researchers of North East India**”, 30<sup>th</sup> October-1<sup>st</sup> November, 2009, Department of Physics, Dibrugarh University, Dibrugarh, Assam.
3. CSIR sponsored workshop on “**Faculty Training & Motivation & Adoption of School & Colleges by CSIR Labs**”, 20<sup>th</sup> -21<sup>st</sup> October 2010, organized by NEIST, Jorhat, Assam.
4. “**High School Teachers' Training Camp**”, 29<sup>th</sup> October – 3<sup>rd</sup> November, 2010, organized by Assam Science Society in Sibsagar College, Joysagar, Assam.
5. UGC sponsored national workshop on “**Recent Trends in Nanoscience and Nanotechnology (RETNAT 2011)**”, 20<sup>th</sup> -21<sup>st</sup> May, 2011, organized by Dept. of Chemistry and Physics, Bahona College, Jorhat, Assam.

6. DBT sponsored workshop on '*Application of Biotechnology Tools in Teaching and Research*', 29<sup>th</sup> -30<sup>th</sup>, September, 2014, organized by Department of Botany, Sibsagar College, Joysagar, Assam.
7. Workshop on '*RF and Microwave Applications in Atmospheric Instrumentation*', 9<sup>th</sup> -10<sup>th</sup> April, 2015, organized by Department of Physics, Dibrugarh University, Dibrugarh, Assam.
8. National Thematic Workshop on *Advances in Nanostuctured Materials: Application and Perspectives (ANMAP), 2016*, 1<sup>st</sup> and 2<sup>nd</sup> June, 2016, organized by The Assam Kaziranga University, Jorhat, Assam and UGC-DAE Consortium for Scientific Research, Kolkata Centre.
9. National Seminar and Workshop on *Applications of Nanotechnology and Biotechnology in Daily life (NSW-ANBDL-2019)*, organized by IQAC, Sibsagar College, Joysagar in association with CPP-IPR, Sonapur Assam, in collaboration with SAVEER Matrix-Nano Private Ltd. And DBT Star Departments of Sibsagar College, Joysagar.

### **R&D Projects and funding agency:**

1. One UGC sponsored Minor Research Project, completed in June 2011 in Dept. of Physics, Sibsagar College, Joysagar.  
Title of the project: *Performance Analysis of Ag-doped CdS Thin Film Transistors*.
2. One UGC Major Research Project, effect from 1<sup>st</sup> April, 2013 in the department of Physics, Sibsagar College, Joysagar, completed in March, 2017.  
Title of the project: *Investigation of the electrical properties of doped/undoped ZnO based thin film transistors with different gate dielectrics*.

### **Organizing Experience**

1. International Seminar and Workshop on Energy, Sustainability and Development: 12<sup>th</sup> -14<sup>th</sup> October, 2012.
2. National Seminar cum Workshop on Advances in Science and Technology and Pertinent need of Instrumentation: 9<sup>th</sup>- 11<sup>th</sup> September, 2016.
3. National Seminar and Workshop on Applications of Nanotechnology and Biotechnology in daily Life: 26<sup>th</sup>- 28<sup>th</sup> September, 2019.
4. Asst. Editor of the Conference Proceeding and Journal (IJIRD) in the International Seminar and Workshop on Energy, Sustainability and Development (ISWESD-2012).
5. PTA meeting, Students seminar etc. in the department of physics.
6. Joint Convener of National Seminar and Workshop on Application of nanotechnology and Biotechnology in Daily Life (NSW-ANBDL-2019)
7. Joint coordinator of National Webinar on Opportunities and Challenges in Material and Space Science-2021 (**NWOCMSS-2021**)' on the 24<sup>th</sup> July 2021, organized by department of physics, Sibsagar College, Jjoysagar, Assam.

## **Institutional Cooperate Responsibility:**

- i) AOC of Dibrugarh University Semester Examination.
- ii) Teacher In-charge of Students' Union Body of the College.
- iii) Member of Post Graduate Managing Committee of the College.
- iv) Departmental Coordinator, DBT Star College, Scheme-2019