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Present Position : Assistant Professor (Sr.)
Department of Physics
Sibsagar College
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Educational qualification

Ph.D.: Dibrugarh University in Physics in 2008.

Thesis title: *Properties of Germanium Thin Film Transistors.*

M.Sc.: Dibrugarh University in Physics (Specialization- Electronics), 2002 securing 64.80%.

Additional qualification

Name of the Course : “Six Months Certificate Course in Computer Application”

Duration : July- December’ 2002

Institution : Dibrugarh University

Course Contains : Computer Fundamental, FoxPro, Numerical Analysis and C -
Programming

Other academic activities

(A) Research Interest

Thin film studies and device fabrication, Nanotechnology and Photonic device fabrications.

(B) Seminar, Conference attended

1. National Conference on **Condense Matter Physics 2004 (CMDAYS-04)**, 25th - 27th August' 2004, North-Eastern Hill University, Shilong, Meghalaya.
2. National Conference on **Condense Matter Physics 2005 (CMDAYS-05)**, 29th - 31st August 2005, Berhampur University, Berhampur, Orissa.
3. **National Symposium on Instrumentation (NSI-30)**, 30th November - 2nd 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. 5th Conference of **Physics Academy of North East (PANE)**, 1st and 2nd 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**, 25th November - 28th 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**" 23rd - 25th September, 2010, organized by Dept. of Chemistry, Sibsagar College, Joysagar, Assam.
7. National Conference on **Condensed Matter Physics (CMDAYS -11)**, 24th -26th August, 2011, organized by Dept. of Physics, Gauhati University, Guwahati, Assam.
8. International Seminar and Workshop on "**Energy, Sustainability and Development**", 12th-14th October, 2012, organized by Department of Physics, Sibsagar College, Joysagar, Assam.
9. National Conference on **Physical Sciences**, 13th -14th 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)**, 9th -11th September, 2016, organized by Department of Physics and IQAC, Sibsagarr College, Joysagar, Assam in association with NEIST-Jorhat, Assam.

(C) Workshop attended

1. DST sponsored workshop on "**Sensors for Agricultural and Industrial Applications**", 20th September-1st 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**", 30th October-1st November, 2009, Department of Physics, Dibrugarh University, Dibrugarh, Assam.
3. CSIR sponsored workshop on "**Faculty Training & Motivation & Adoption of School & Colleges by CSIR Labs**", 20th -21st October 2010, organized by NEIST, Jorhat, Assam.
4. "**High School Teachers' Training Camp**", 29th October – 3rd 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)**", 20th -21st 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**', 29th -30th, September, 2014, organized by Department of Botany, Sibsagar College, Joysagar, Assam.
7. Workshop on '**RF and Microwave Applications in Atmospheric Instrumentation**', 9th -10th 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**, 1st and 2nd June, 2016, organized by The Assam Kaziranga University, Jorhat, Assam and UGC-DAE Consortium for Scientific Research, Kolkota Centre.

(D) **Research Publications (Proceedings/Journals)**

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. “Nepthacene and pentacene based organic thin film transistors with La_2O_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_2O_3 , Ge- Dy_2O_3 , Ge- Eu_2O_3 and Ge- La_2O_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_2O_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_2O_3 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_2O_3 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_2O_3 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 Dipok Saikia, *Jof Frontline Research*, vol. 4, page 53-59 (2015).

(E) **Orientation and Refresher Course Participated**

1. UGC sponsored **Orientation Programme** (OP-94), held from 2nd March – 29th March, 2010, organized by Academic Staff College, Himachal Pradesh University, Shimla, Himachal Pradesh.
2. UGC sponsored **Refresher Course**, held from 8th - 28th November, 2011, organized by Academic Staff College, University of Madras, Chennai, Tamilnadu.
3. UGC sponsored Refresher Course, held from 11th-30th July, 2016, organized by Human resource Development Centre (HRDC) and Regional Centres for Capacity Building (RCCB), Jawaharlal Nehru Technological University Hyderabad, Telangana State, India.

(F) **Research Project Undertaken**

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 sponsored Major Research Project, completed in March, 2017, effect from 1st April, 2013 to 31st March, 2017, in the department of Physics, Sibsagar College, Joysagar.

Title of the project: ***Investigation of the electrical properties of doped/undoped ZnO based thin film transistors with different gate dielectrics.***

Research Fellow: Mr. Sanjib Changmai, (M.Sc. in Physics)

(G) **Teaching Experience**

Assistance Professor of Physics in Sibsagar College, Joysagar since 1st July 2008.

(H) **Courses taught**

Electronics, Optics, Quantum Mechanics, Mathematical Physics, LASER, Mechanics.

(I) **Other Responsibilities**

- i) Asst. Editor of the Conference Proceeding and Journal (IJIRD) in the International Seminar and Workshop on Energy, Sustainability and Development (ISWESD-2012).
- ii) Reviewer of peer reviewed journals...
 - a) International Journal of Electronics
 - b) IEEE Electron Device
 - c) Journal of nanotechnology
 - d) Journal of Physics D: Applied Physics

(J) **Hobby**

Painting

(Dr. Paragjyoti Gogoi)