Biodata of Prof. (Dr.)GOPA SEN(GUHA MAJUMDAR)

A. Name and full address

Prof. (Dr.) Gopa Sen (Guha Majumdar)

B.	B. Address & contact details					
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C.	Date of birth			03.09.1957		
D.	Academic Qualifications					
	Degree	Subject	Unive	rsity/Institution	Year	% of marks/class
1.	B.Sc.	Physics (Honours)	Unive	rsity of Calcutta	1976	64.4%/ 1 st class
2.	B. Tech	Radio Physics & Electronics (RPE)	Do		1979	75.4%/1 st class
3.	M. Tech	RPE	Do		1982	GPA- 4.0 out 0f 4.0.1 st class
4.	Ph.D.(Tech)	RPE	Do		1989	Not applicable
E.	Work experience (in chronological order)					
Assistant Professor CU				08.11.1989	07.11.2000	
Associate Professor		CU			07.11.2000	- 24.12.2008
Professor CU				24.12.2008 -	- Till now	
Area of Specialization : Microwave and Millimeter wave Technology, Light wave Technology and Semiconductor Photonics.						

List of Publications:

I. Journal Publications:

- 1. **Gopa Guha Majumdar** and Pradip kumar Saha "A novel rectangular waveguide double T-septums", IEEE Trans. On Microwavw Theory & Techniques, vol-33, pp-1235-1238, Nov.1985.
- 2. **Gopa Guha Majumdar** and Pradip kumar Saha "Rectangular waveguide with T- shaped septa", IEEE Trans. On Microwavw Theory & Techniques, vol-35, pp-201-204, Nov.1987.
- 3. Pradip kumar Saha and **Gopa Guha Majumdar** "Cut-off bandwidth characteristics of inhomogeneous T-septum waveguides", JIETE vol-32, No.5, Sept- Oct 1986.
- Pradip kumar Saha and Gopa Guha Majumdar, "Bandwidth Characteristics of Inhomogeneous T- septum waveguides", IEEE Trans. On Microwave Theory and Techniques, vol. 37, pp 1021 – 1026, June 1989.
- Pradip kumar Saha and Gopa Guha Majumdar, "Dispersion Characteristics of unilateral and bilateral finlines by Ritz-Galerkin Techniques", International Journal of Electronics, vol.68, no. 5, pp 839 -948, June 1990.
- 6. P.K.Basu, N.R.Das, Bratati Mukhopadhyay, **Gopa Sen** and Mukul Kumar Das, "Ge/Si photodetectors and group IV alloy based photodetector materials", Opt. Quant Electron, vol. 41, 567-581, 2009.
- 7. Soumava Ghosh, <u>Bratati Mukhopadhyay</u>, **Gopa Sen** and P.K. Basu, "Study of Si-Ge-Sn based Heterobipolar Phototransistor (HPT) exploiting Quantum Confined Stark Effect and Franz Keldysh effect with and without resonant cavity", **Physica E**, vol 106, 62-67, 2019.
- 8. Bratati Mukhopadhyay, **Gopa Sen**, Souradeep De, Rikmantra Basu, Vedatrayee Chakraborty, and Prasanta K. Basu, "Calculated Characteristics of a Transistor Laser Using Alloys of Gr-IV Elements", **Phys. Stat. sol. B.**, vol 255, 1800117 (6pp) 2018.
- 9. Swagata Dey, Vedatrayee Chakraborty, Bratati Mukhopadhyay and **Gopa Sen**, "Modeling of tunneling current density of GeC based double barrier multiple quantum well resonant tunneling diode", **Journal of Semiconductors**, vol 39, 1-5, 2018.
- 10. Swagata Dey, Bratati Mukhopadhyay, **Gopa Sen** and P.K. Basu, "Type II band alignment in Ge_{1-x-v}Si_xSn_v/Ge_{1-a-β}Si_aSn_β heterojunctions", **Solid State Communications**, vol 270, 155-159, 2018.
- Bratati Mukhopadhyay, Gopa Sen, P. K. Basu, Rikmantra Basu, Shyamal Mukhopadhyay, "Prediction of Large Enhancement of Electron Mobility in Direct Gap Ge_{1-x}Sn_x Alloy", Phys. Stat. sol. B., vol 254, 1700244 (7pp) 2017.

II. Conference Proceedings:

- 1. "Group IV Photonics: Prospects and Challenges", P.K. Basu, Bratati Mukhopadhyay and **Gopa Sen**, 10th International Conference on Fiber Optics and Photonics, Photonics-2010, held on Dec 11-15, 2010, IIT Guwahati, India.
- "Prediction of Lasing Action at 1550 nm from Direct Band Gap Typt I GeC/GeSiSn QW Structure", Bratati Mukhopadhyay, Gopa Sen and P.K. Basu, 10th International Conference on Fiber Optics and Photonics, Photonics-2010, held on Dec 11-15, 2010, IIT Guwahati, India.
- "Ge/Si Photodetectors and Group IV Alloy Based Photodetector Materials", P.K.Basu, N.R.Das, Bratati Mukhopadhyay, Gopa Sen and Mukul Kumar Das, 9th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD, held on Sept. 14-18, 2009, Gwangju, Korea.
- 4. "Feasibility of Laser Action in Strained Ge and Group Iv Alloys on Si Platform", P.K. Basu, **Gopa Sen** and Bratati Mukhopadhyay, International Conference on Emerging Trends in Electronics and Photonic Devices and Systems, Electro-2009, held on Dec. 22-24, 2009, BHU, Banaras, India.
- 5. "Feasibility of Laser Action at 1550 nm by Type I GeC/GeSiSn Heterojunctions", Bratati Mukhopadhyay, **Gopa Sen** and P.K. Basu, 4th International Conference on Computers and Devices for Communication, CODEC-09, held on Dec. 14-16, 2009, Kolkata, India.
- 6. "GeSn/SiGe RCE Photodetectors: A comparative study based on Franz-Keldysh effect and Quantum Confined Stark effect", Gopa Sen, Bratati Mukhopadhyay, and P.K. Basu, 4th International Conference on Computers and Devices for Communication, CODEC-09, held on Dec. 14-16, 2009, Kolkata, India.
- "Design of Ge/SiGe MQW Directional Coupler", Gopa Sen, Bratati Mukhopadhyay, and P.K. Basu, International Conference on Computer, Communication, Control and Information Technology, C³IT-2009, held on Feb. 6-7, 2009, Adisaptagram, W.B., India
- 8. "Performance Optimization of Ge/SiGe MQW Electroabsorption Modulator for Optical Short Pulse Generation", **Gopa Sen**, Bratati Mukhopadhyay, and P.K. Basu, National Workshop on Advanced Optoelectronic Material and Devices, AOMD-2008, held on Dec. 22-24, 2008, BHU, Banaras, India.
- Quest for Direct Gap in Indirect gap Group IV Semiconductors for photonic device application", P.K.Basu, Bratati Mukhopadhyay, Sumitra Ghosh and Gopa Sen, 9th International Conference on Fiber Optics and Photonics, Photonics-2008, held on Dec 13-17, 2008, IIT, Delhi, India.
- "Modeling Electroabsorption and Electrorefraction in Ge/SiGe Multiple Quantum Wells for Applications as Modulators", Gopa Sen, Bratati Mukhopadhyay, and P.K. Basu, 9th International Conference on Fiber Optics and Photonics, Photonics-2008, held on Dec 13-17, 2008, IIT, Delhi, India.
- 11. "Ge/SiGe Quantum Wells on Si for Electroabsorption Optical Intensity Modulators at 1.55 μm", Gopa Sen, Bratati Mukhopadhyay, and P.K. Basu, National Conference on Device, Intelligent

Systems and Communication & Networking, AEC-DISC 2008, held on Aug. 1-2, 2008, Asansol, W.B. India.