



## FACULTY PROFILE & PUBLICATIONS

**Prof. Mr. Anirban Neogi** (H.O.D., ECE department) passed his M.Tech degree from Radio Physics & Electronics, University Of Calcutta in the year 2003. He passed his M.Sc. degree from the same university in Electronic Science in the year 2001. Previously he was faculty & H.O.D. of ECE Department in Bengal Institute Of Technology, Techno India Group. His research area is Semiconductor Physics & Nano Science. He has a total teaching experience of 13 years.

Publication Details	<p>Einstein Relation in Carbon Nanotubes and Quantum Wires of Nonlinear Optical, Optoelectronic and Related Materials: Simplified Theory, Relative Comparison and Suggestion for an Experimental Determination. Journal of Computational and Theoretical Nanoscience Vol.5, 375–400, 2008.</p>	2008
	<p>Einstein Relation in Quantum Wells and Nipi Structures of Nonlinear Optical, Optoelectronic and Related Materials: Simplified Theory, Relative Comparison and Suggestion for an Experimental Determination. Journal of Computational and Theoretical Nanoscience Vol.4, 1–24, 2007.</p> <p>Simple theoretical analysis of the thermoelectric power in quantum dotsuperlattices of non-parabolic heavily doped semiconductors withgraded interfaces under strong magnetic field. Physica E 36 (2007) 163–177.</p>	2007
	<p>A simple analysis of the interband absorption coefficient of bulk and quantum well of nonparabolic semiconductors with application to Hg<sub>1-x</sub>Cd<sub>x</sub>Te material. Journal of Optoelectronics and Advanced Materials vol. 14, iss. 3-4/2012 entitled.</p>	2007
	<p>Trust Improvement among the nodes in a Wireless Ad-hoc Network, ISSN: 2278-1323, International Journal of Advanced Research in Computer Engineering &amp;Technology, Volume 1, Issue 3, May 2012.</p>	2012

	<p>Trust assessment through fta approach in ad-hoc network, march, 2013 acer '13conference proceeding of advancement of computing in engineering research (acer '13) [22-23 march, 2013], airccse(cs&amp;it)[issn : 1839-5678] [doi : 10.5121/csit.2013.3228], volume -3, issue -2.</p> <p>Analysis of interband absorption coefficient for bulk non-parabolic Hg<sub>1-x</sub>Cd<sub>x</sub>Te material, IJSETR Volume 2, Issue 8, August 2013, ISSN: 2278 – 7798.</p> <p>‘Theoretical analysis of the incremental band gap and effective electron mass in Hg<sub>1-x</sub>Cd<sub>x</sub>Te in the presence of light wave’. International Journal of Science, Engineering and Technology Research (IJSETR), Volume 3, Issue 8, August 2014, ISSN: 2278 – 7798 (2215-2221)</p> <p>Theoretical analysis of the incremental band gap and effective electron mass in n-In<sub>1-x</sub>Ga<sub>x</sub>As<sub>y</sub>P<sub>1-y</sub> in accordance with the perturbed Two and Three band model of Kane. International Journal of Science, Engineering and Technology Research (IJSETR), Volume 4, Issue 4, January 2015,ISSN-2228-7798, pp-0773-0779</p> <p>Pattern search based dimension optimization of a rectangular Inset-Fet patch antenna for minimized VSWR and return loss. IJARCCCE, Vol 4 issue 4 , April 2015,ISSN(print)-(2319-5940)</p> <p>Effect of variation in thickness of the second core on the Performance Characteristics of Dual Concentric Core Step Index Fiber Raman Amplifier2015 6th International Conference On Computers and Devices for Communication (CODEC), IEEE 978-1-4673-9513-7/15,ISBN:978-1-4673-9511-3</p>	<p>2012</p> <p>2013</p> <p>2013</p> <p>2014</p> <p>2015</p> <p>2015</p>
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**Prof. Mr. Sutanu Ghosh** passed his M.Tech degree from Jadavpur University in Distributed and Mobile Computing in the year 2009. He passed his B.Tech Degree from WBUT in Electronics & Communication Engineering in the year 2006. He has a total teaching Experience of 6 yrs. His/Her research area is Mobile Communication, Ad-hoc Network, Cognitive Radio etc. He successfully qualified UGC NET in the year 2012

Publication Details	1.National Conference presented Paper - Capacity analysis of Voice over WLAN (VoWLAN) for different Codec and Effect of Contention Window in 802.11b Network (NSDC-'09, IN SIKKIM, India)	2009
	2. Journal PAPER NAME: Integration between 3G Cellular and Wireless LAN JOURNAL NAME: International Journal of Advanced Research in Computer Engineering & Technology (IJARCET). VOLUME: Volume 1, Issue 7, September 2012. ISSN: 2278 – 1323. PAGE: 37-40.	2012
	3. Journal PAPER NAME: Comparative study of QOS parameters of SIP protocol in 802.11a and 802.11b network. JOURNAL NAME: International journal of Mobile Network Communications & Telematics (IJMNCT).VOLUME: Volume 2, Number 6, And December 2012.ISSN: 1839 – 5678.PAGE: 21-30. DOI: 10.5121/ijmnct.2012.2603.	2012
	4.National Conference presented Paper - Trust assessment through FTA approach in Ad-hoc Network (ACER-'13, IN KRISHNAGAR, India) JOURNAL NAME: AIRCCSE (CS&IT).VOLUME: Volume 3, Number 2, March 2013. ISSN: 2231– 5403.ISBN: 978-1-921987-11-3. PAGE: 295-304. DOI: 10.5121/csit.2013.3228.	2013
	5.Journal PAPER NAME: Comparative Study of various VOIP applications in 802.11a Wireless Network Scenario. JOURNAL NAME: International journal of Mobile Network Communications & Telematics (IJMNCT).VOLUME: Volume 3, Number 5, October 2013.ISSN: 1839 – 5678. PAGE: 29-39. DOI: 10.5121/ijmnct.2013.3504.	2013
	6. Journal PAPER NAME: Performance Analysis on the basis of a Comparative Study between Multipath Rayleigh fading and AWGN channel in the Presence of Various interference. JOURNAL NAME: International journal of Mobile Network Communications & Tele-matics	2014

(IJMNCT). VOLUME: Volume 4, Number 1, February 2014. ISSN: 1839 – 5678.PAGE: 15-22.DOI: 10.5121/ijmnct.2014.4102.	
7. Journal PAPER NAME: Performance Evaluation on the basis of Bit error rate for different order of Modulation and different length of Sub-channels in OFDM system. JOURNAL NAME: International journal of Mobile Network Communications & Telematics (IJMNCT).VOLUME: Volume 4, Number 3, June 2014. ISSN: 1839 – 5678.PAGE: 33-41.DOI: 10.5121/ijmnct.2014.4304.	2014
8. Journal PAPER NAME: Performance Evaluation with a comparative analysis of MIMO channel on the basis of doppler shift and other probabilistic parameters in fading environment. JOURNAL NAME: International journal of Mobile Network Communications & Telematics (IJMNCT).VOLUME: Volume 4, Number 5, October 2014.ISSN: 1839 – 5678.PAGE: 35-44.DOI: 10.5121/ijmnct.2014.4503.	2014
9. Journal PAPER NAME: Comparative evaluation of bit error rate for different OFDM subcarriers in Rayleigh channel. JOURNAL NAME: International journal of Mobile Network Communications & Telematics (IJMNCT). VOLUME: Volume 5, Number 1, October 2015. ISSN: 1839 – 5678.PAGE: 01-08.DOI: 10.5121/ijmnct.2015.5101.	2015
10. National Congress Paper Name: A Comparative Evaluation Of Different Ofdm Transmission Schemes. National Congress Name : Research Scholars Congress-2015, IIT Guwahati.	
11. International Journal Paper Name: Performance Evaluation of Different Coding and Modulation Scheme in LTE Using Different Bandwidth and Correlation Levels. Journal Name: Wireless Personal Communications, Springer, Netherlands. DOI: 10.1007/s11277-015-2945-6, Vol. 86, Issue 2.	2015
12. International IEEE sponsored Conference: Performance evaluation of different ofdm transmission schemes. Conference Name: ICGCIOT '15. Proc. In IEEE ISBN: 978-1-4673-7909-0, Oct.'15.	2015
13. International IEEE sponsored Conference: Optimal Energy Efficient data transmission in Cognitive Relay Network. Conference Name: WISPNET '16. Mar '16.	2016
14. International IEEE sponsored Conference: Performance Evaluation of OFDM transmission scheme in Vehicular Environment. Conference Name: WISPNET '16. Mar '16.	2016

**Prof. Mrs. Anuva Ganguly** passed her M.Tech degree from NIT, Durgapur in Microelectronics & VLSI in the year 2010. She passed her B.Tech. degree from Utkal University in Electronics & Telecommunication Engineering in the year 2003 . Previously she was faculty of ECE Department in Dr. B. C. Roy Engineering College. Her research area is Nanotechnology & Nano devices. She has a total teaching experience of 10 years.

Publication Details	<p>1. An efficient technique of electromagnetic compatibility of broadband on power line systems Proc. National conference on “Trends in Telecom Transmission: Copper to Fiber” IEEE, Bombay- 2006.</p> <p>2. Fiber optic angular displacement sensor National conference, NSI 31, ITM UNIVRSE, Oct. 2006</p> <p>3. Effects of Light Wave on Characteristics of MODFET Proc. International conference on Resource Utilization and Intelligent System, Tamilnadu, India. –3-5 2008.</p> <p>4. Thin Film Resonant Multi-Cavity Filter Proc. National conference on Device Intelligent System and networks AEC, 2008, PP217.</p> <p>5. Performance improvement of Infrared Resonant Cavity Enhanced Schottky p-i-n Photodiode Proc. International conference on Resource Utilization and Intelligent System, Tamilnadu, India. –3-5 2008</p> <p>6. High-Speed Metal-Semiconductor-Metal Photo diode Proc. IEEE International Conf. of Industrial and Information Systems, IIT Kharagpur, 2008.</p> <p>7. SM Fiber to Film coupler, Photonic Devices, Erode, Tamilnadu, 3 -5 Sep. 2009</p> <p>8. High Efficiency Quasi Mono-crystalline Silicon Solar cell with Porous Silicon Antireflection Coating. Proc. National conference on non-conventional</p>	<p>2006</p> <p>2006</p> <p>2008</p> <p>2008</p> <p>2008</p> <p>2008</p> <p>2009</p> <p>2010</p>
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	<p>energy sources, SMIT, 4 – 6 Jan. 2010.</p> <p>9. Quasi-mono-crystalline silicon with nano-voids: a novel photonic material for high speed photo-detector Proc. Electronic and Photo-electronic Devices, Gwalior, July, 2011</p> <p>10. Single Mode Fiber to Thin Film Tunable Coupler Proc. National Conference on Communication, Measurement &amp; Control, Vol-1, 14 Aug., 2012, pp. 81-82, AEC.</p> <p>11. High Efficiency Solar Cell Using a New Material, Accepted &amp; presented in International Conference on Non Conventional Energy(ICONCE 2014).ISBN:978-1-4799-3339-6/14/IEEE 2014</p> <p>12. ‘Optimization of High performance of GNR TFETs’, IJECT, Volume-6, ISSUE-1, SPL-1, Jan-March 2015. ISSN:2230-7109(online)/ ISSN:2230-9543(Print)</p> <p>13. “Optimum Design of Low Power High Performance GNR TFETs for Digital Application”, 2015 6th International Conference On Computers and Devices for Communication (CODEC), IEEE 978-1-4673-9513-7/15,ISBN:978-1-4673-9511-3</p> <p>14. “Prospect of GNR TFETs as Potential Terahertz Sources”, 2015 6th International Conference On Computers and Devices for Communication (CODEC), IEEE 978-1-4673-9513-7/15,ISBN:978-1-4673-9511-3</p>	<p>2011</p> <p>2012</p> <p>2014</p> <p>2015</p> <p>2015</p> <p>2015</p>
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**Prof. Mrs. Ananya Banerjee** passed her M.Tech degree from Radio Physics & Electronics, University Of Calcutta in the year 2008. She passed her M.Sc. degree from the same university in Electronic Science in the year 2006. Previously she was faculty of ECE Department in Academy of Technology & Institute of Engineering & Management. Her research area is wireless communication network. She has a total teaching experience of 7 years.

	<p><b>1. TRUST IMPROVEMENT AMONG THE NODES IN A WIRELESS AD-HOC NETWORK ,</b>  <i>ISSN:2278-1323,International Journal of Advanced Research in Computer Engineering &amp;Technology, Volume 1, Issue 3, May 2012.</i></p> <p><b>2. Trust assessment through fta approach in ad-hoc network,</b> march, 2013 <i>acer '13</i>  <i>conference proceeding of advancement of computing in engineering research (acer '13)[22-23 march, 2013], airccse(cs&amp;it)[ issn : 1839-5678]</i>  [doi : 10.5121/csit.2013.3228], volume - 3, issue -2.</p>	<p>2012</p> <p>2013</p>
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**Prof. Mrs. Manali Dhar** passed her M.Tech degree from WBUT (INHOUSE) in the year 2011. She passed her B.Tech degree from WBUT in Electronics & Communication Engineering in the year 2008. She has a total teaching Experience of 4 years. Her research area is Microelectronics & VLSI Design.

Publication Details	<p>1. 'A Study on Surface Roughness and I-V characteristics of DLN', National Conference on Industrial Engineering, WBUT, 2011.</p> <p>2. Published a International Journal paper on "<i>Analysis of inter-band absorption coefficient for bulk non-parabolic Hg<sub>1-x</sub>CdxTe material</i>" . E-ISSN: 2278-7798. Volume 2 , Issue 8 ,10th August,2013 in IJSETR.</p> <p>3. Published a National Conference Paper (N3CD 2013) titled '<i>Simulation of LFSR based Data Scrambler and Descrambler using HDL</i>'- JISCE, Kalyani</p> <p>4. Published a National Seminar Paper(ASICN13) titled '<i>VHDL implementation for secure data communication</i>'- DSCSDEC, Kolkata- ISBN No.- 81-925299-4-0</p> <p>5. 'Theoretical analysis of the incremental band gap and effective electron mass in Hg<sub>1-x</sub>CdxTe in the presence of light wave'. International Journal of Science, Engineering and Technology Research (IJSETR), Volume 3, Issue 8, August 2014, ISSN: 2278 – 7798 (2215-2221)</p> <p>6. 'Evaluation of ATM functioning using VHDL and FPGA' International Journal of VLSI Design &amp; Communication systems (VLSICS), Vol.6, No.3, June 2015, DOI:-10.5121/vlsic.2015.6303</p>	<p>2011</p> <p>2013</p> <p>2013</p> <p>2013</p> <p>2014</p> <p>2015</p>
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**Prof. Mrs. Debasmita Manna** passed her M.Tech degree from JIS College of Engineering in Mobile Communication and Network Technology in the year 2011. She passed her B.Tech from WBUT in Electronics & Communication Engineering in the year 2007. She has a total teaching Experience of 7 years. Her research area is Network Security and Controller based System Designing and Controller based Bio-medical applications.

<p>Publication Details</p>	<p>1. National Conference Paper (N3CD 2013) titled '<i>Simulation of LFSR based Data Scrambler and Descrambler using HDL</i>'- JISCE, Kalyani</p> <p>2. National Seminar Paper (ASICN13) titled '<i>VHDL implementation for secure data communication</i>'- DSCSDEC, Kolkata- ISBN No.- 81-925299-4-0</p> <p>3. International Journal Paper titled 'Process Realization with Model Based Automation Approach towards Rubber Plant to Manufacture Vehicle Tires'-in International Journal of Engineering Research &amp; Technology (IJERT) ISSN: 2278-0181, Vol. 3 Issue 4, April – 2014.</p> <p>4. International Journal Paper titled "controller design and optimized system analysis for standard dexterous arm model in International Journal of Electronics and Communication Engineering &amp; Technology (IJECET), ISSN 0976 – 6464(Print) ISSN 0976 – 6472(Online) Volume 6, Issue 1, January (2015), pp. 73-78.</p> <p>5. International Journal Paper titled "<b>Simulation of a Rectangular Patch Antenna with Polyolefin Substrate from Wasted Materials by Zeland IE-3D</b>" in International Journal of Scientific and Research Publications (IJSRP), Volume 5, Issue 4, April 2015 , ISSN 2250-3153.</p> <p>6. International Journal Paper titled "<i>Self-Invented Keypad Based Electronic Notice Board for Wired &amp; Wireless Communication</i>" in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering(IJAREEIE), Vol. 5, Issue 4, April 2016, ISSN (Online): 2278 – 8875. DOI:10.15662/IJAREEIE.2016.0504039</p> <p>7. International Journal Paper titled "<i>The Camouflaged Microstrip Patch Antenna within Hibiscus Flower for Covert Communication</i>" in International Journal of Advanced Research in Electrical,</p>	<p>2013</p> <p>2013</p> <p>2014</p> <p>2015</p> <p>2015</p> <p>2016</p> <p>2016</p>
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	<p>Electronics and Instrumentation Engineering(IJAREEIE), Vol. 5, Issue 4, April 2016, ISSN (Online): 2278 – 8875, DOI:10.15662/IJAREEIE.2016.0504123</p> <p>8. International Journal Paper titled “<i>System Tuning and Stability Analysis in Discrete Domain for a Standard Dexterous Arm Model</i>” in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Vol. 5, Issue 4, April 2016, ISSN (Online): 2278 – 8875. DOI:10.15662/IJAREEIE.2016.0504138</p>	2016
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**Prof. Mrs. Aditi Sengupta** passed her M.Tech degree from Optics & Optoelectronics Department, University Of Calcutta in the year 2012. She passed her B.Tech from WBUT in Electronics & Communication Engineering in the year 2009 . She has a total teaching Experience about 3 years. Her research area is Image processing.

Publication Details	<p>1.”Estimating the age of Human Face in Image Processing using Matlab”-International Journal of Engineering and Computer Science, ISSN: 2319-7242, Volume 4 Issue 3 March 2015, Page No:-10899-10902</p>	2015
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**Prof. Mrs. Manjari Bharati** passed her M.Tech degree from WBUT in Communication Engineering in the year 2010. She passed her B.Tech from Burdwan University in Electronics & Communication Engineering in the year 2008. She has a total teaching Experience about 3.5 years. Her research area is Automatic Neural Network.

Publication Details	<p>1. Published an International Journal Paper titled <b>“Design of Single Feed Dual Frequency Compact Microstrip Patch Antenna using Shorting Pin Configuration”</b> in International Journal of Review in Electronics and Communication Engineering (IJRECE)” Volume 3, Issue 2, April 2015, Page no: 42-43 e-ISSN 2321-3159.</p> <p>2. “Effect on Efficiency Due to Variation of Patch Height of Rectangular Microstrip Patch Antenna ” in “International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)” Volume 4, Issue 7, July 2015, Page no: 5880-5885, ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875 DOI: 10.15662/ijareeie.2015.0407011</p> <p>3. “Effect on Total Field Gain and VSWR Due To Variation of Dielectric Constant of Rectangular Microstrip Patch Antenna Using IE3D Software. ” in “International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)” Volume 5, Issue 4, April 2016, Page no: 2231-2238, ISSN (Print) : 2320 – 3765 ISSN (Online): 2278–8875 DOI:10.15662/IJAREEIE.2016.0504006</p>	<p>2015</p> <p>2015</p> <p>2016</p>
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**Prof. Mr. Shubhajit Pradhan** passed his M.Tech degree from Radio Physics & Electronics, University Of Calcutta in the year 2013. He passed his B.Tech Degree from Radio Physics & Electronics, University Of Calcutta in the year 2008. He has a total teaching Experience of 1 year. His research area is microwave devices.