

## PROFILE OF THE ELECTRONICS DEPARTMENT

The Department of Electronics started in the year 1982 as a general subject in B.Sc. In the year 1992 Electronics Major or Honours was introduced .

### THE FACULTY:

NAME	DESIGNATION	QUALIFICATION	JOINING YEAR
DR.D.R.CHOUDHURY.	HEAD DEPARTMENT ASSOCIATE PROFESSOR	M.Sc P.hd	1989
PROF.S CHAKRABORTY	ASSISTANT PROFESSOR	M.Sc	1998
PROF.K.CHAKRABORTY	ASSISTANT PROFESSOR	M.Sc	2006
DR H C MEDHI	ASSISTANT PROFESSOR	M.Sc P.hd	2010
PROF B P THANGKHIEW	ASSISTANT PROFESSOR	M.Sc , NET	2011
Mr. A MAJAW	LAB ASSISTANT		

### WORKSHOP SEMINAR/POPULAR TALK/WORKSHOPS/SYMPOSIA ORGANISED OR HELD BY THE DEPARTMENT (From 2009 TILL DATE)

1. Organized a talk on” **Conceptual Foundation of Quantum Mechanics and Conceptual aspects of theory of Relativity**” by Prof K. D Krori, retd. Principal, Cotton College, Guwahati, on August 2009.
2. Organized a talk on “**Recent Trends in Wireless Communication and Interaction session on visual Lab**” by Dr Ratnajit Bhattacharjee, H.O.D. of Electronics and Communication, IIT. On 3<sup>rd</sup> of September, 2010
3. Organized a talk on “**Server Management**” by Anirban Deb Roy, Associate consultant, Siemens Ltd. Kolkata on the 3<sup>rd</sup> of June, 2011
4. Organized a talk on “**Optical Wave Guide for Sensor Application and Plasmonic Devices**” by Rimlee Deb Roy, Senior Research Fellow, Central Glass and Ceramics Research Institution, Kolkata. on the 3<sup>rd</sup> of June, 2011
5. Organized a seminar on “**Microprocessor and its Application**” by Prof Dr P K Baruah, H.O.D, USIC, Guwahati University on 18<sup>th</sup> of August 2012.
6. Organized a talk on “**Embedded Systems** “by Pranjal Sengupta on October 2013.
7. Organized a talk on “**Career Guidance and Facing Interview**”, by D Sengupta , Deputy Manager Human Resource, Cummin India on 9<sup>th</sup> October, 2013.

### PUBLICATIONS BY MEMBERS OF THE DEPARTMENT

1. A high voltage generator circuit is used in a new detector RPC, Assam Science Society Journal, Vol 50, No1,2.,2009, pp 74-77.
2. A new pulse stretcher circuit suitable for nanosecond pulses, Assam Science Society Journal, Vol 50, No1,2.,2009, pp 78-81.
3. Study and simulation of Transfer Function of Indoor Power Line Using Transmission Line Theory, Assam Science Society Journal, Vol 50 (1 &2), 2009, pp 100-105.
4. Study of Noise Scenario in Indoor Power Line Under usual Household Condition , Assam Science Society Journal ,Volume 50 (1 & 2) ,2009, pp 106-113.
- 5.Simulation of Resistive plate counter (RPC) Pulse Height spectrum, IJPAP,Vol 6,NO.1. 2010,pp 9—14.

6. A new pulse stretcher circuit suitable for nanosecond pulses and simulated using VHDL, IJAER, Vol. 5, NO. 10 (2010) pp. 1689-1692.

7. A DSP based Channel Selection Algorithm for Adaptive Transmission in Indoor Power Line , Indian J.Phys84(6),745-749(2010).

**PROJECTS UNDERTAKEN BY THE DEPARTMENT- Dr. H. Medhi has applied for financial help from UGC for a Minor Research Project**

**PAST FACULTY :**

**Prof Dulal Ranjan Bhattacharjee - Retired on 2002**

**Prof Wandell Passah - Retired on 2011**

**LIST OF ALUMINI AND THEIR PRESENT POSITION**

NAME	YEAR	PRESENT POSITION
Mithun Sen	2010	Working in TCS
Jhimti Paul	2010	Working in TCS
Shaurav Shah	2011	BTech ECE
Ajay Roy	2011	BTech ECE
Md Faisal M Qureshi	2011	Msc
Sunil V Lobo	2011	Msc
Priyanka Shome	2011	BTech IT
Manoj Chhetri	2012	BTech ECE
Gaurav Paul	2012	Msc
Akash Poundel	2012	Msc
Paulal John	2013	BTech ECE
M Robi Meitei	2013	BTech ECE
Jeffrey L Mawlong	2013	Msc
Raymond Kharumnuid	2013	Msc
Vicor Saha	2013	Msc
Prosperwell Sunn	2013	Msc
Damodar Gharti	2013	Msc
Sunil Chettri	2013	Msc
Harvinder S Aoulakh	2013	Merchant Navy
L Biswaraj Singha	2013	Msc

#### **7. LIST OF ACHIEVEMENT/ACTIVITY OF THE DEPARTMENT**

1. The Department took actively involved in preparing the **Three Year Degree Semester Syllabus** which will be implemented from 2014.

2. The Department was approved by UGC to run a **Course on Basic Electronics and Computer assembling** under the career oriented Scheme of UGC which the Department is conducting successfully since 2009

4. The Faculty of the Department are **appointed members of BUGS** of Electronics Degree course as well as NEHU- Engineering College

5. The Department is called for **to judge in different Science Activities** in the School and College level

6. The Department is also Involved in different confidential assignment of the University like **Question setting , Moderation ,Correction and Tabulation**

7. Actively involved in the **Designing and Maintenance of the Equipments of the Electronics Department.**

8. The Department also renders **help and advice to other college regarding Electronics**

9. Many a times students from the Electronics Department has begged the best graduate award in the NEHU degree exam

#### **ANY OTHER RELEVANT INFORMATION**

##### **Workshop/Seminar attended by the Dr. D. Roy Choudhury**

1. Participated as a coordinator in the National Workshop on “**Computer Interfacing of Physics Experiments**” held on the 11<sup>th</sup> to 13<sup>th</sup> May, 2009
2. Participated in the one day Seminar on “**Recent Developments in Electronic Applications**” organized by the Department of Physics, Lady Keane College on the 7<sup>th</sup> of December, 2009.
3. Participated in the three-day Workshop on “**Electronics Circuit Designing, Fabrication and Testing**” organized by the Department of Physics, Lady Keane College on the 8<sup>th</sup> to 10<sup>th</sup> of December, 2009.
4. Participated in the three-day Workshop on “**Micro Electro Mechanical Systems (MEMS) Technology and its Application**” organized by the Department of Electronics and Communication Engineering, NEHU, Shillong and the North Eastern Space application Center (NESAC), Department Of Space, Govt. of India held on 25<sup>th</sup> and 27<sup>th</sup> March, 2010
5. Participated in the two-day Workshop on “**Physics in Welding Technology**” organized by the Department of Physics, Lady Keane College, Indian Welding Society, New Delhi and IGNOU Institute for Vocational Education and Training(IIVET) Shillong, held on the 13<sup>th</sup> of December, 2010
6. Participated in the three-day Workshop on “**PC Assembling and Repairing**” “organized by the Department of Physics, Gauhati University, Assam on the 21<sup>th</sup> to 23<sup>rd</sup> of December, 2010.
7. Participated in the one-day Workshop on “**Changing Paradigm in College Education-problem and challenges**” organized by the Economic association in collaboration with IQAC, St. Edmund's college, Shillong, held on the 29<sup>th</sup> October, 2011
8. Participated in the two-day National Seminar on “**Commemoration of the Centenary year of Bohr's Atomic Theory**” organized by the Department of Physics, Lady Keane College in collaboration with The Department of Physics, NEHU, held on the 23<sup>th</sup> and 24<sup>th</sup> August 2013

##### **Workshop/Seminar attended by the PROF.S CHAKRABORTY**

1. Participated in the 10<sup>th</sup> International conference on “**Fiber Optics and Photonics**” organized by IIT Guwahati from 11Dec. to 15Dec. 2010.
2. Participated in the INDO-JAPAN International Workshop on “**Speciality Optical Fiber, Nano-Photonics and Devices**” organized by CSIR- Central Glass and Ceramic Research Institute, Kolkata from Jan.6 to Jan.7, 2012
3. Participated in the one day Seminar on “**Recent Developments in Electronic Applications**” organized by the Department of Physics, Lady Keane College on the 7<sup>th</sup> of December, 2009
4. Participated in the two-day National Seminar on “**Commemoration of the Centenary year of Bohr's Atomic Theory**” organized by the Department of Physics, Lady Keane College in collaboration with The Department of Physics, NEHU, held on the 23<sup>th</sup> and 24<sup>th</sup> August 2013
5. Delivered a lecture on “**Maxwell's equations and its applications in the field of communication**” in Karimganj College in Dec. 2009

##### **Workshop/Seminar attended by PROF.K.CHAKRABORTY**

1. Participated as a coordinator in the National Workshop on “**Computer Interfacing of Physics Experiments**” held on the 11<sup>th</sup> to 13<sup>th</sup> May, 2009

2. Participated in the one day Seminar on **"Recent Developments in Electronic Applications"** organized by the Department of Physics, Lady Keane College on the 7<sup>th</sup> of December, 2009.
3. Participated in the three-day Workshop on **"Electronics Circuit Designing, Fabrication and Testing"** organized by the Department of Physics, Lady Keane College on the 8<sup>th</sup> to 10<sup>th</sup> of December, 2009.
4. Participated in the three-day Workshop on **"Micro Electro Mechanical Systems (MEMS) Technology and its Application"** organized by the Department of Electronics and Communication Engineering, NEHU, Shillong and the North Eastern Space application Center (NESAC), Department Of Space, Govt. of India held on 25<sup>th</sup> and 27<sup>th</sup> March, 2010
5. Participated in the two-day Workshop on **"Physics in Welding Technology"** organized by the Department of Physics, Lady Keane College, Indian Welding Society, New Delhi and IGNOU Institute for Vocational Education and Training(IIVET) Shillong, held on the 13<sup>th</sup> of December, 2010
6. Participated in the two-day National Seminar on **"Commemoration of the Centenary year of Bohr's Atomic Theory"** organized by the Department of Physics, Lady Keane College in collaboration with The Department of Physics, NEHU, held on the 23<sup>th</sup> and 24<sup>th</sup> August 2013
7. Participated as a resource person in the workshop **"Hands on Training in electronics"** conducted by ST. MAY'S COLLEGE, 28<sup>th</sup> Sept, 2013 supported by DBT.

**Workshop/Seminar attended by DR H C MEDHI**

1. Participated in a Workshop on **"Introductory statistical data analysis"** at Department of Computer Science and Engineering, Rajiv Gandhi University, Itanagar, August 28-September 1, 2007.
2. Participated in a workshop on **"Physics with Homemade Equipment and Innovative Experiments"** from 12<sup>th</sup> Nov, 2007 to 17<sup>th</sup> Nov 2007 held at Inter University Accelerator Centre, New Delhi.
3. Participated in a Workshop on **"Image and signal Processing (WISP-2007)"** "December 28-29, 2007 IITG.
4. Participated in a 2 weeks ISTE workshop on **"Basic Electronics Under the National Mission on Education Through ICT (MHRD, Govt. of India)"** from 28<sup>th</sup> June to 8<sup>th</sup> July, 2011, DBCET, Guwahati
5. Participated in a Advanced Workshop on **"Microprocessor Application and Embedded System Design"**, during 21.11.2011 to 03.12.2011, organised by Department of Instrumentation & USIC, Gauhati University.
6. Participated in a IEEE Workshop on **"Compressive Sensing and Technical writing"** on 6<sup>th</sup> and 7<sup>th</sup> April 2013 at IIT Guwahati under IEEE Kolkata Section.

**CONFERENCE ATTENDED BY DR H C MEDHI:**

1. Assam Science Society, the 54<sup>th</sup> Annual Technical Session, February 4, 2009, Tezpur University.
2. VI<sup>th</sup> National Conference of the Physics Academy of North East on Physics Research in North East held on April 2-4, 2009 organized by Department of Physics, Tripura University.
3. Assam Science Society, the 56<sup>th</sup> Annual Technical Session, 26<sup>th</sup> March, 2011, Dibrugarh University.

**TALK DELIVERED / PAPER PRESENTED BY DR H C MEDHI:**

1. Paper presented in the 54<sup>th</sup> Annual Technical Session of Assam Science Society organized by Tezpur University, on 4<sup>th</sup> February 2009.
2. Paper presented in the 6<sup>th</sup> National conference of the PANE, held on April 2-4, 2009 organized by Department of Physics, Tripura University, Tripura.
3. Paper presented in the 56<sup>th</sup> Annual Technical Session of Assam Science Society organized by Dibrugarh University, on 26<sup>th</sup> March 2011.
4. Member : Member of environmental Society of ASSAM.
5. Resource Person : Workshop on Hands on Training in electronics, conducted by ST. MARRY'S COLLEGE, 28<sup>th</sup> Sept, 2013 supported by DBT.

**Workshop/Seminar attended by PROF B P THANGKHIEW**

1. Participated as a resource person in the workshop “Hands on Training in electronics” conducted by ST. MARY’S COLLEGE, 28<sup>th</sup> Sept, 2013 supported by DBT.
2. Attended a Refresher course on ‘**Computational Physics**’ conducted by the Department Of Physics under Academic Staff College from .June.2013 to .June 2013.
3. Attended an international seminar on ‘Cultural Heritage And Peace Education’ organized by the Government of Meghalaya in collaboration with UNESCO on the .December.2013.