

## PHYSICS DEPARTMENT

Year of Establishment: 1937

Faculty of the Department:

Name	Designation	Qualification	Year of Joining
Dr. R. Das	Associate Professor (Head of Department)	M.Sc. PhD	1986
Dr. V.R. Rao	Associate Professor	M.Sc. PhD	1991
M. Lyndem	Associate Professor	M.Sc.	1997
Dr. L. Kurbah	Assistant Professor	M.Sc. PhD	2001
B.L. Giri	Assistant Professor	M.Sc. NET	2006

### WORKSHOP SEMINARS/POPULAR TALKS/WORKSHOPS/SYMPOSIA/INVITED LECTURES/ GUEST LECTURES/ ETC.

1. The Deptt. of Physics organised the National Workshop on **“Computer Interfacing on Physics Experiments”** in St. Edmund’s College, Shillong, in collaboration with the Inter University Accelerator Centre (IUAC), New Delhi, on the 11<sup>th</sup> to 13<sup>th</sup> may 2009.
2. The Department of Physics organized a Invited Guest Lecture on the topic **“Recent trends in Microwave terahertz frequency and Meta materials”**. in the College Auditorium by a distinguished Physicist Prof. Subal Kar, Head of the Deptt., Institute of Radio Physics and Electronics (IRPE), University of Calcutta, on the 13<sup>th</sup> of May, 2010.
3. The Deptt of Physics organized an Invited Guest Lecture in the College on the 9<sup>TH</sup> JUNE, 2010 by Maj. Pravin Kumar Jha, Indian Army, for B. Sc II yr and III yr students of St. Edmund’s College. On the topic **“Job prospects in the armed forces after graduation”**
4. The Deptt of Physics organized an Invited Guest Lecture entitled **“The Bonsai of Materials and its wonders”** by Prof. Amar Jyoti Choudhury, Pro. Vice Chancellor of Tezpur University, in St. Edmund’s College Auditorium on 1<sup>st</sup> July, 2010. The Lecture was attended by the Degree students and the faculty members of the College. Vice Principal Prof. J. M. Sen was present in the programme. Few members of the NEHU faculty were also attended the lecture.
5. The Deptt of Physics organized an Invited Guest Lecture entitled **“Thermodynamics and Social Disorder”** by Mr. Govinda Bhattacharjee, IAS, Chief vigilant Officer, Ministry of Heavy industries, Govt. of India, in St. Edmund’s College Auditorium on 30<sup>th</sup> of

August, 2010. The Lecture was attended by the Degree students and the faculty members of the College. Faculty members of other institutions of Shillong were also present in the programme. An interaction with the members of the Physics Department was also arranged in Physics lab.

6. The **State-level workshop *Experimental Demonstration of Basic Concepts of Physics*** organized by the Department on the 9<sup>th</sup> July, 2011 and 16<sup>th</sup> July, 2011.

The Workshop was purposely organized for the (10+2) students of different schools and Colleges of the State. The aim of the workshop is to help students remove misconceptions giving them hands on activities related to the fundamental concepts in Physics.

7. Guest lecture titled **“Jump Start your career- opportunities”** by Mr. Joydeep Roy Choudhury, Cofounder & Director of Techno-Media Software Solutions Pvt. Ltd. Bangalore. At the Physics lab attended by the Physics honors students and the physics staff on the 22<sup>nd</sup> Sept. 2011.

8. An invited Guest lecture entitled **“Experimental Techniques and Methodologies”** by Dr.S.S. Khatri, Deptt. of Physics, NEHU, Shillong , was organized by the department on the 17<sup>th</sup> and 30<sup>th</sup> of March, 2012.

9. An invited Guest lecture entitled **“Power line Communication and Applications”** by Dr. B. Tiru, Deptt. of Physics, Gauhati University, Guwahati, organized by the Deptt. of Physics, St.Edmund’s College on 24<sup>th</sup> May,2012

10. Guest Lecture entitled **“Prospects and Challenges of Nuclear Power and Related Cycle”** by Padmashri Dr. C. Ganguly, International Atomic Energy Agency, Vienna, Austria, organized by the Deptt. of Physics, St.Edmund’s College, on the 16<sup>th</sup> of Nov.2012

11. Guest Lecture entitled **“Enthusiasm and trends in modern day Physics”** by Dr. Bikram Phukan, Deptt of Physics. St. Stephen College. New Delhi, organized by the Deptt. of Physics, St.Edmund’s College, on the 24<sup>th</sup> of June.2013

12. Guest Lecture entitled **“Polymath: the last man who knew everything.( Thomas Young, 1773-1829)”** by Prof Y.S.T. Rao Former Head Department of Physics NEHU. Shillong, Meghalaya, organized by the Deptt. of Physics, St.Edmund’s College, on the 28<sup>th</sup> of June.2013.

13. Guest Lecture entitled **“Prospects of Physics in the field of Professional Defence Electronics”** by Shah Zamal Ahmed , Senior Engineer M/S Bharat Electronics Limited (Ministry of defence) Bangalore, organized by the Deptt. of Physics, St.Edmund’s College, on the 17<sup>th</sup> of August 2013.

14. Guest Lecture entitled “**Basics of Embedded Systems**” by Prof Nilutpal Bhatarcherjee Gwalior Engineering college Gwalior, organized by the Deptt. of Physics, St.Edmund’s College, on the 26<sup>th</sup> of Oct. 2013.

**Projects undertaken by the Department:**

**1) List of past faculty/staff of the Department:-**

<b>NAME</b>	<b>YEAR OF JOINING</b>	<b>YEAR OF LEAVING</b>	<b>PRESENT POSITION</b>
Prof. N. Ganguli	1/1/1942	1/9/1972	Expired
J. Purkayastha	1/3/1961	14/9/1966	-----
Dr P. Bhattacharya	5/5/1961	30/11/1995	Expired
Tapeswar singh	14/7/1961	1/4/1964	-----
Smt. Eva Bhuyan	17/7/1961	1/4/1964	-----
Prof. B. M. Goswami	2/5/1962	31/1/2001	Retired
Nirmal Joshi Dev	29/8/1962	-----	-----
Kamenlendu Dutta Choudhury	16/3/1963	-----	-----
Kamini Kumar Nath	1/4/1963	30/6/1964	-----
Sudip Kumar Raha	16/7/1963	31/3/1965	-----
Smt. Dolcy .M. Kharbuli	10/12/1963	31/12/2003	-----
Bro.M. G. Shannon	1/2/1964	9/5/1988	Expired
Asit Baran Chakravarty	1/10/1966	31/1/1998	Expired
D.R. Bhattacharjee	1/6/1967	30/9/2004	Retired
Prof K.P. Bhattacharjee	1/6/1967	30/9/2004	Expired
Prof W. Pasah	1/7/1974	1986	Retired
Bro. B.S. Davis	1/7/1978	-----	-----
Prof.Ramendhu Bhattacharjee	1/10/1986	31/10/1998	ProV.C. Assam University Silchar, Assam
Dr.Sukhdev .S.Khatri	1/4/1996	15/12/2007	Associate Professor Deptt of Physics NEHU. Shillong
Dr.Ratna Deep Roy	24/5/2005	2/3/2009	Associate Professor Deptt of Physics Amity University Jaipur
Mr. Amalendu Das	01/06/2006	2009	Assistant Professor Deptt of Physics Sikkim Manipal University. Sikkim
Mr. Nabendu Deb	7/2009	9/2010	Regional Institute of Science and Technology Baridua. Meghalaya
Ms.Doreen.Anabel War	1/4/2009	28/2/2011	Assistant Professor Deptt of Physics St. Mary’s College Shillong

Mr. Reagyson Surong	1/8/2009	30/4/2010	Lecturer of St.Edmund's College Higher Secondary Section
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**List of Alumni and their present positions:-**

1. Prof. Ayon Bhattacharjee –NIT Meghalaya
2. Dr. N.K. Choudhury – Scientist 'F' DRDO. New Delhi
3. Prof Nilutpal Bhatarcherjee Gwalior Engineering college Gwalior.
4. Prof. Subal Kar. Head of the Deptt. Institute of Radio Physics and Electronics (IRPE), University of Calcutta.

There are many more prominent academicians, scientists, high ranking government officials, etc., dead and alive whose names are not included as the list will become endless.

**List of achievements of the Department**

**1. B. Sc III (Hons) Results**

*Result of the B.Sc. Physics Honours Final Year Examination 2009:-*

Number of students appeared: 12  
Number of students passed: 12  
Departmental pass Percentage: 100%  
University pass percentage: 90.86%  
College pass percentage: 96.58%  
Number of first division: 11  
Number of second division: 1  
Number of position in the University: 3  
4<sup>th</sup> position: SAGNICK CHAKRABORTY  
6<sup>th</sup> position: SANDEEP KUMAR DEB  
10<sup>th</sup> position: SOCHIPEM KASAR

*Result of the B.Sc. Physics Honours Final Year Examination 2010.*

No. of Students Appeared	: 10
No. of Students Passed	: 08
No. of Position in the University	: 04
1 <sup>st</sup> Position: Alestin Mawrie	: 80.50%
2 <sup>nd</sup> position: Ivanskhem Sawkmie	: 78.75%
5 <sup>th</sup> position: Larilordor Langstieh	: 70.13%
7 <sup>th</sup> position: Shailes Swer	: 69.75%
No. of 1 <sup>st</sup> class	: 08
No. of 2 <sup>nd</sup> class	: Nil
No. of Simple Passed	: Nil
Departmental Pass Percentage	: 80%

*Result of the B.Sc. Physics Honours Final Year Examination 2011.*

No. of Students Appeared	: 11
No. of Students Passed	: 11
No. of Position in the University	: 05
1 <sup>st</sup> Position: Deven Sunar	: 82.25%
4 <sup>th</sup> position: Korbarlin Mawlieh	: 74.38%
5 <sup>th</sup> position: Sanjit Chakraborty	: 73.38%
6 <sup>th</sup> position: Fairlin Khongshun	: 71.25%
7 <sup>th</sup> position: Niangmuankim	: 69.63%
No. of 1 <sup>st</sup> class	: 07
No. of 2 <sup>nd</sup> class	: 04
University Pass Percentage	: 95.56%
College Pass Percentage	: 97.12%
Departmental Pass Percentage	: 100%

*Result of the B.Sc. Physics Honours Final Year Examination 2012.*

No. of Students Appeared	: 20
No. of Students Passed	: 20
No. of Position in the University	: 04
3 <sup>rd</sup> Position: Suman Deb	: 75.88%
5 <sup>th</sup> position: Aungat Shah	: 73.13%
9 <sup>th</sup> position: L.G. Neihisial	: 68.25%
10 <sup>th</sup> position: Idawandafa J. Chullai	: 66.75%
No. of 1 <sup>st</sup> class	: 09
No. of 2 <sup>nd</sup> class	: 11
University Pass Percentage	: 94.56%
College Pass Percentage	: 94.92%
Departmental Pass Percentage	: 100%

*Result of the B.Sc. Physics Honours Final Year Examination 2013.*

No. of Students Appeared	: 14
No. of Students Passed	: 14
No. of Position in the University	: 03
1st Position: Joel Lalbiakkima	: 79.88%
7 <sup>th</sup> position: Waiphangmiki Sytem	: 67.75%
10 <sup>th</sup> position: Rapmelang Lyngdoh	: 66.38%
No. of 1 <sup>st</sup> class	: 09
No. of 2 <sup>nd</sup> class	: 05
No. of Simple Passed	: Nil
University Pass Percentage	: 91.86%

College Pass Percentage : 96.96%  
Departmental Pass Percentage : 100%

**2. Award of Star College Scheme:-** The year 2009 was yet another important landmark year for the department as it was one of the six departments selected in the college under Star College Scheme of The Department of Biotechnology, Ministry of Science and Technology, Government of India. Under this scheme all the selected received a grant for 12 lakhs each

**Any other relevant information:-** The Physics Department of St.Edmund's college Shillong has a good infrastructure with a well equipped laboratory for under graduate courses. The department can boast of having quite a number of apparatus of very old path breaking experiments like the study of cathode rays, etc.