

Short Report on the inhouse program on  
**“Knowing And Understanding Electronics Through Hands-On Basic Electronics And Circuit Designing On Bread Boards”**

The Department of Electronics as a part of the centenary celebration organised a 2 day in house programme, for class XII sc based on the theme **“Knowing And Understanding Electronics Through Hands-On Basic Electronics And Circuit Designing On Bread Boards”** on the 16<sup>th</sup> and 17<sup>th</sup> of November 2022 for students of the following schools:-

1. St Edmund's Higher secondary
2. Laban Bengalee Boys
3. Seven set
4. Gorkha pathshala

The program was organised keeping in mind the following main objectives :

- To raise an awareness about electronics and its applications for students.
- To give some exposure about the practical aspect of what is taught in class 12
- To provide students with a hands on experience on something they have learn.
- Reinforcing concepts that were taught theoretically in class 12

The program is coordinated by B P Thangkhiew and the schedule is as shown below

<b>DAY 1 (16.11.22 ) &amp; DAY 2 ( 17.11.22)*</b>	
SESSION: I: TIME: 10 AM TO 10:15 AM	
Welcome speech :K Chakraborty	
SESSION: I - TIME: 10:15 AM TO 10:30 AM	
An Introductory presentation about the department and future prospects after completing BSc Electronics	
Session II - TIME 10:30 AM-12:00 PM	
Identification of components	ALL TEACHERS Passive components: Resistor capacitor inductor. Active components: Semiconductor devices motors and buzzer.
Use a Multimeter	ALL TEACHERS To measure the AC & DC voltage. Measure Resistance in Series and parallel and explain tolerance. Testing components.
Cathode ray oscilloscope	Dr D R Choudhury and Prof Soumen Chakraborty Working of a CRO. Half and full wave rectifier. Measurement of voltages ,Frequency using different signals. RC differentiating and integrating, lissajous figure.
Making Circuit in a Breadboard	Prof Kishore Chakraborty, Dr Hemen Medhi, and Prof B.P. Thangkhiew LED with different,resistors,potentiometers. AND ,OR & NOT gates. CD4017 running Lights. LDR dark sensor. Half and full wave rectifier.
TIME 12:00 PM -12:30 PM : FEEDBACK AND DISCUSSION	
VOTE OF THANKS	
LUNCH	
* Two Schools per day	

The total number of students who attended the program:39

The total number of resource persons:5

Feedback analysis:

After the session a feedback was given to the students for filling up. After analysis, it was discovered that, despite the fact that electronics is a major component of class 12 curriculum, students in the higher secondary section of the schools receive very little exposure to the subject's various equipment and theories.

Conclusion:

The program was conducted for the first time in such a level where an effort was taken to make students from higher secondary see the importance of hands on session, exposure to practical aspects of theory taught in class and an awareness about the different components that one has to know about the changes in Electronic industry and how has it shaped the way we are living right now.

B P Thangkhiew  
Coordinator in house program  
Department of Electronics





Shillong, ML, India  
Laitumkhrah, Shillong, 793003, ML, India  
Lat 25.567560, Long 91.896871  
11/17/2022 10:13 AM GMT+05:30  
Note: Captured by GPS Map Camera



null, Mechhalaya, India  
Nandirchor, Paul para, mahendraganj, HV9W+3WW,  
Long 91.897342,  
Lat 25.567733\*  
17/11/2022 11:50 AM



Shillong, ML, India  
Laitumkhrah, Shillong, 793003, ML, India  
Lat 25.567589, Long 91.896954  
11/17/2022 10:37 AM GMT+05:30  
Note: Captured by GPS Map Camera



Shillong, ML, India  
Laitumkhrah, Shillong, 793003, ML, India  
Lat 25.567602, Long 91.896915  
11/17/2022 11:32 AM GMT+05:30  
Note: Captured by GPS Map Camera



null, Mechhalaya, India  
Nandirchor, Paul para, mahendraganj, HV9W+3WW,  
Long 91.897342\*  
Lat 25.567733\*  
17/11/2022 10:35 AM



null, Mechhalaya, India  
HV9W+3W9, Lumimawrie, Laitumkhrah, Shillong,  
Long 91.897398\*  
Lat 25.567680\*  
17/11/2022 11:52 AM



null, Mechhalaya, India  
Nandirchor, Paul para, mahendraganj, HV9W+3WW,  
Long 91.897342\*  
Lat 25.567733\*  
17/11/2022 11:55 AM



Shillong, ML, India  
Laitumkhrah, Shillong, 793003, ML, India  
Lat 25.567632, Long 91.896976  
11/17/2022 10:44 AM GMT+05:30  
Note: Captured by GPS Map Camera



Shillong, ML, India  
Laitumkhrah, Shillong, 793003, ML, India  
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17/11/2022 10:16 AM GMT+05:30  
Note: Captured by GPS Map Camera



# St Edmund's College

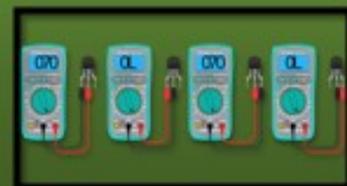
## Department Of Electronics

(In collaboration with IQAC)

**“KNOWING AND UNDERSTANDING ELECTRONICS  
THROUGH HANDS-ON  
BASIC ELECTRONICS  
AND  
CIRCUIT DESIGNING ON BREAD BOARDS”**



**IN HOUSE PROGRAMME FOR  
CLASS XII Sc**



**16/11/2022 & 17/11/2022**

**Venue: Electronics department Laboratory**

IN HOUSE PROGRAMME FOR CLASS XII Sc  
ON  
"KNOWING AND UNDERSTANDING ELECTRONICS THROUGH HANDS-ON BASIC ELECTRONICS AND CIRCUIT DESIGNING ON BREAD BOARDS"  
(Attendance)

S NO	DATE	NAME	PHONE NUMBER	SCHOOL'S NAME	Short Feedback about the program	Signature
1	17/11/2022	Raffel Jena Lyngdoh Nongkhal	9863621478	Seven Set Amnere	5★ Very fun. Better than class	[Signature]
2	17/11/2022	Karan Thapa	8731981889	Seven Set Amnere	Very interesting and got to learn about many things and experiments	[Signature]
3	17/11/2022	Melban Kyrshen Wablang	9174177394	Seven Set Amnere	Experience more than what we get in class.	[Signature]
4	17/11/2022	Lakshisha Tasiang	9362041396	Seven Set Amnere	Hands on experience. Well detailing.	[Signature]
5	17/11/2022	Sonu Kumar	8050078717	Seven Set Amnere	Interesting!	[Signature]
6	17/11/2022	Subham Hojong	8837494479	Seven Set Amnere	Quite interesting	[Signature]
7	17/11/2022	Lauandal Mankhiew	9362702681	Seven Set Amnere	Interesting! :-)	[Signature]
8	17/11/2022	Nickshome G. Monin	8257898393	Seven Set Amnere	Interesting	[Signature]
9	17/11/2022	Deivy Nongpak	8787410016	Seven Set Amnere	Interesting	[Signature]
10	17/11/2022	PRACHIYANNA NONGSOMBO	9366522651	Seven Set Amnere	Interesting	[Signature]
11	17/11/2022	Saadi upadhaya	87887387018	G.P.H.S.S.	Interesting	[Signature]
12	17/11/2022	Drishti Sharma	8259002104	G.P.H.S.S.	Interesting	[Signature]
13	17/11/2022	Niya Dutta	9401764092	G.P.H.S.S.	Interesting	[Signature]
14	17/11/2022	Abhishek Guung	9385050544	G.P.H.S.S.	Interesting	[Signature]
15	17/11/2022	SARAN SONAR	6033210260	G.P.H.S.S.	of various kinds of knowledges	[Signature]
16	17/11/2022	Aishuk Debbarma	7628065173	G.P.H.S.S.	New things about electronics	[Signature]
17	17/11/2022	Arvi Yadav	9862247142	G.P.H.S.S.	Interesting & Awesome.	[Signature]
18	17/11/2022	Shriyana Thapa	8787334147	G.P.H.S.S.	Knowledge about electronics	[Signature]
19	17/11/2022	Nehal Larca	8798846151	G.P.H.S.S.	Interesting	[Signature]
20	17/11/2022	AKASH YADAV	9862720109	G.P.H.S.S.	Interesting	[Signature]

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(Attendance)

S NO	DATE	NAME	PHONE NUMBER	SCHOOL'S NAME	Short Feedback about the program	Signature
1	16/11/2022	Subom Das	9862640800	L.B.B.H.S.S.	It was good.	[Signature]
2	16/11/2022	KUNAL DAS	8794045724	L.B.B.H.S.S.	It was a good program. I learned many new things.	[Signature]
3	16/11/2022	Tanmay Paul	7630005397	L.B.B.H.S.S.	Outstanding	[Signature]
4	16/11/2022	Karan Paul	690919547	L.B.B.H.S.S.	Informative.	[Signature]
5	16/11/2022	Anrab Ota	9774503135	L.B.B.H.S.S.	Informative	[Signature]
6	16/11/2022	Rohit Das	6909529569	S.E.H.S.S.	Informative	[Signature]
7	16/11/2022	Kunal Ghosh	8787353900	S.E.H.S.S.	Informative	[Signature]
8	16/11/2022	Ankit Kumar Ray	7005206823	S.E.H.S.S.	Very helpful	[Signature]
9	16/11/2022	Bijay Karanika	7006737794	S.E.H.S.S.	Informative	[Signature]
10	16/11/2022	Changha Thodjyem	6033180805	S.E.H.S.S.	Interesting and informative	[Signature]
11	16/11/2022	Aryam Kumar Rai	9612552876	S.E.H.S.S.	Fantastic	[Signature]
12	16/11/2022	Pankaj Bala Das	9402548889	S.E.H.S.S.	Fantastic	[Signature]
13	16/11/2022	Jasen Manbariang	8787571796	S.E.H.S.S.	Productive	[Signature]
14	16/11/2022	Humbaklang N. Sathya	9612550225	S.E.H.S.S.	Informative	[Signature]
15	16/11/2022	Nathaniel V. Sanyal	9366978912	S.E.H.S.S.	Interesting	[Signature]
16	16/11/2022	Deborahi Manal	6709350269	S.E.H.S.S.	Fantastic	[Signature]
17	16/11/2022	Sarath R. Navaiah	8774221782	S.E.H.S.S.	Mind blowing	[Signature]
18	16/11/2022	Beyyik J. Karasani	8798209130	S.E.H.S.S.	Great	[Signature]
19	16/11/2022	Pulkit Adhe	7663775696	S.E.H.S.S.	Informative	[Signature]
20						