



## EXTENSION ACTIVITY REPORT

Activity Title : SMILE for HIs: Basic Electronics Course

Time Started: 8:00 Ended: 5:00

Venue: CIT Electronics Technology Laboratory.

Date Conducted: October 1 – 22, 2017

### A. Rationale/ Background of Activity

The SMILE for HIs Extension project envisions hearing impaired individuals who are equipped with technical and life skills for sheltered employment or source of living. With this commitment, the third and last course offering was conducted in four (4) Sundays in October 2017. This 32-hour training is devoted to inculcate basic manipulative skills in electronics technology and servicing.

The said training is organized by the AB Psychology program with some of its faculty and student-facilitators from Samahan sa Sikolohiyang Pilipino (SSP) in partnership with CIT's BSIT Electronics Technology programs through its faculty members and members of the Electronics Student Society (ESS) as shadow teachers.

### B. Objectives

The Basic Electronics Course covers fundamentals of electronics particularly safety procedures, symbols, hand tools, measuring instruments, electronic devices, soldering techniques, fabrication of PCBs, power supply assembly and troubleshooting, current and voltage measurements.

At the end of the training course, students are expected to:

1. Understand the fundamentals of electronics;
2. Acquaint themselves and observe safety procedures;
3. Familiarize different electronic tools and their usage and intended purpose;
4. Develop basic electronics skills necessary in assembling and disassembling of power supply;
5. Repair a particular home appliance.

### C. Attendance

#### Guest, Speakers, Facilitators

Name	Position	Address/ Agency
1. Ms. Lolita D. Eder	SPED Teacher	Mauban South ES
2. Mrs. Haydee M. Ilarde	Parent	Mauban, Quezon
3. Mr. Owen E. Mendoza	Teacher Aide	PSL
4. Mr. Marwin Calupig	Trainer/ Faculty	SLSU-CIT
5. Dr. Jose D. Sanvictores	Trainer/ Faculty	SLSU-CIT
6. Mr. Chester Allan M. Mendez	Trainer/ Faculty	SLSU-CIT
7. Mrs. Noreen P. Echague	Trainer/ Faculty	SLSU-CAS
8. Remmiel I. Masaganda	Facilitator/ Assistant	CAS-SSP
9. Patricia Ann G. Sopena	Facilitator/ Assistant	CAS-SSP
10. Beatriz D. Nuñezca	Facilitator/ Assistant	CAS-SSP
11. Norena D.Briones	Facilitator/ Assistant	CAS-SSP
12. Maria Ana Dianne R. Calabano	Facilitator/ Assistant	CAS-SSP
13. Gaizel Anne O. Ella	Facilitator/ Assistant	CAS-SSP
14. Janice D. Esguerra	Facilitator/ Assistant	CAS-SSP
15. Cathlene M. Perla	Facilitator/ Assistant	CAS-SSP
16. Mariella Nicole P. Santos	Facilitator/ Assistant	CAS-SSP
17. Mary Angelyn Lagrosas	Facilitator/ Assistant	CAS-SSP



## EXTENSION ACTIVITY REPORT

18. Camille Ann V. Tarray	Facilitator/ Assistant	CAS-SSP
19. Patricia Mae B. Caramat	Facilitator/ Assistant	CAS-SSP
20. Dana Yenci D. Cananca	Facilitator/ Assistant	CAS-SSP
21. Joshua Renz Granada	Facilitator/ Assistant	CAS-SSP
22. Gerald Escleto	Facilitator/ Assistant	CAS-SSP
23. Ayessa Adrian Maderal	Facilitator/ Assistant	CAS-SSP
24. Raemarie Magante	Facilitator/ Assistant	CAS-SSP
25. Gerome N. Enriquez	Facilitator/ Assistant	CIT-ESS
26. Merie Gay Viduya	Facilitator/ Assistant	CIT-ESS
27. Mark Joseph P. Baal	Facilitator/ Assistant	CIT-ESS
28. Geelyn N. Villa	Facilitator/ Assistant	CIT-ESS
29. Laura May P. Tesbe	Facilitator/ Assistant	CIT-ESS
30. Jenny Rose P. Paray	Facilitator/ Assistant	CIT-ESS
31. Michelle L. Martinez	Facilitator/ Assistant	CIT-ESS
32. Kim Patrick T. Quezon	Facilitator/ Assistant	CIT-ESS
33. Camille T. Concepcion	Facilitator/ Assistant	CIT-ESS
34. Jovel D. Secretario	Facilitator/ Assistant	CIT-ESS
35. Ervin Resusta	Facilitator/ Assistant	CIT-ESS
36. Julius P. Lustares	Facilitator/ Assistant	CIT-ESS
37. Kim Zhyron I. Brondial	Facilitator/ Assistant	CIT-ESS
38. Jared Parco	Facilitator/ Assistant	CIT-ESS
39. Quennie P. Ramiro	Facilitator/ Assistant	CIT-ESS
40. Vienna Franz Abustan	Facilitator/ Assistant	CIT-ESS
41. Derek Baldovino	Facilitator/ Assistant	CIT-ESS
42. Roanne Errol Sangcap	Facilitator/ Assistant	CIT-ESS
43. Kenneth Dela Peña	Facilitator/ Assistant	CIT-ESS
44. Shilden L. Santos	Facilitator/ Assistant	CIT-ESS
45. Sarah Joy Estella	Facilitator/ Assistant	CIT-ESS
46. Rienna Mae Atabay	Facilitator/ Assistant	CIT-ESS
47. Russell Cirera	Facilitator/ Assistant	CIT-ESS
48. Jeremy J. Manzera	Facilitator/ Assistant	CIT-ESS
49. Mark Aldrin De Luna	Facilitator/ Assistant	CIT-ESS
50. KrisleyGio L. Pasawa	Facilitator/ Assistant	CIT-ESS
51. Roi R. Olavivar	Facilitator/ Assistant	CIT-ESS
52. Efren Mendoza	Facilitator/ Assistant	CIT-ESS
53. Jeronel Salazar	Facilitator/ Assistant	CIT-ESS
54. Emmanuel Valderamos	Facilitator/ Assistant	CIT-ESS
55. Mikail P. Laviña	Facilitator/ Assistant	CIT-ESS
56. Nhea Rose A. Catapang	Facilitator/ Assistant	CIT-ESS
57. Adries B. Hervera	Facilitator/ Assistant	CIT-ESS
58. Maria Angela V. Badillo	Facilitator/ Assistant	CIT-ESS
59. Jomarie M. Lustrilla	Facilitator/ Assistant	CIT-ESS
60. Erika V. Sabuya	Facilitator/ Assistant	CIT-ESS
61. Harvey M. Leonar	Facilitator/ Assistant	CIT-ESS
62. Mark Erwin M. Asis	Facilitator/ Assistant	CIT-ESS
63. Jandel O. Ungriano	Facilitator/ Assistant	CIT-ESS
64. Peter ReuelGalleno	Facilitator/ Assistant	CIT-ESS
65. Mark Anthony Bang-Asaw	Facilitator/ Assistant	CIT-ESS
66. Mrs. Lourdes Rivera	Parent	Mauban, Quezon
67. Mr. Gino Cabrera	Project Leader	SLSU-CAS

*Note: There were different sets of facilitators per session*



## EXTENSION ACTIVITY REPORT

### Participants

Name	Position	Address
1. Lyka Chrizette L. Dayo	N/A	Lucban, Quezon
2. JoemelynDumangen	N/A	Lucban, Quezon
3. Ruel E. Martinez	N/A	Lucban, Quezon
4. John Lloyd L. Palmaria	N/A	Lucban, Quezon
5. Carl Jasper S. Placino	N/A	Lucban, Quezon
6. Michael C. Precilla	N/A	Lucban, Quezon
7. Kristelle B. Vito	N/A	Lucban, Quezon
8. Alberto Alano	N/A	Lucena City/ Lucban
9. Jerald R. Mendoza	N/A	Lucena City/ Lucban
10. John Mark M. Alpuerto	N/A	Mauban, Quezon
11. Leovic J. Briola	N/A	Mauban, Quezon
12. Januel A. Candovar	N/A	Mauban, Quezon
13. Jerickson Q. Derecho	N/A	Mauban, Quezon
14. Dandy P. Geguinto	N/A	Mauban, Quezon
15. Lemar John C. Edilloran	N/A	Mauban, Quezon
16. John Kerrwin M. Ilarde	N/A	Mauban, Quezon
17. Michelle M. Lanuza	N/A	Mauban, Quezon
18. Angelica A. Manipol	N/A	Mauban, Quezon
19. Apple Lyka A. Rey	N/A	Mauban, Quezon
20. Mark Christian M. Sangcap	N/A	Mauban, Quezon
21. John Mark M. Alpuerto	N/A	Mauban, Quezon
22. Reynalyn E. Umali	N/A	Mauban, Quezon
23. Gilbert Dealino	N/A	Tayabas City
24. Leonard Lames	N/A	Tayabas City
25. John Cris P. Zalameda	N/A	Tayabas City
26. MenardoTagustos	N/A	Lucban, Quezon

### D. Summary of attendance

Attendees	No. of Male	No. of Female
a. Guest, speakers, facilitators	34	33
b. Participants	19	7
Total	53	41

### E. Program of the Activity

Date	Particulars/ Lessons	Duration	Trainer/ Facilitator
Oct. 1	Opening program Orientation Lecture/ Hands-on exercises <ul style="list-style-type: none"> <li>• Fundamentals of electronics and electricity</li> <li>• Electronics safety</li> <li>• Electronics symbols</li> <li>• Electronics hand tools</li> <li>• Electronics components</li> </ul>	8 hrs.	Dr. Jose D. Sanvictores, Mr. Marwin Calupig and Mr. Chester Allan M. Mendez with the assistance of the SSP and ESS members, Mr. Gino A. Cabrera and SPED Teachers



### EXTENSION ACTIVITY REPORT

	<ul style="list-style-type: none"> <li>a. Resistor</li> <li>b. Capacitor</li> <li>c. Inductor</li> <li>d. Transformer</li> <li>e. Diode</li> <li>f. Transistor</li> <li>g. Other related devices</li> <li>• Electronics test instruments</li> <li>h. Multi-tester (VOM)</li> </ul>		
Oct. 8	Lecture Hands-on Activities <ul style="list-style-type: none"> <li>• Checking of components               <ul style="list-style-type: none"> <li>a. Resistor checking</li> <li>b. Capacitor checking</li> <li>c. Inductor checking</li> <li>d. Transformer checking</li> <li>e. Diode checking</li> <li>f. Transistor</li> </ul> </li> <li>• Soldering and desoldering techniques               <ul style="list-style-type: none"> <li>a. Wire soldering exercises                   <ul style="list-style-type: none"> <li>1. Stranded wire soldering</li> </ul> </li> </ul> </li> </ul>	8 hrs.	Dr. Jose D. Sanvictores and Mr. Chester Allan M. Mendez with the assistance of the SSP and ESS members, Mr. Gino A. Cabrera and SPED Teachers
Oct. 15	Lecture Hands-on Activities <ul style="list-style-type: none"> <li>• Different types of power supply               <ul style="list-style-type: none"> <li>a. Unregulated and regulated power supply</li> <li>b. Half-wave rectifier power supply</li> <li>c. Full-wave rectifier power supply</li> <li>d. Full-wave bridge type rectifier power supply</li> </ul> </li> <li>• Fabrication of PCB               <ul style="list-style-type: none"> <li>a. Preparing PCB</li> <li>b. PCB layout and design</li> <li>c. Etching of the PCB</li> <li>d. Drilling of the PCB</li> </ul> </li> <li>• Power supply assembly</li> </ul>	8 hrs.	Dr. Jose D. Sanvictores and Mr. Chester Allan M. Mendez with the assistance of the SSP and ESS members, Mr. Gino A. Cabrera and SPED Teachers
Oct. 22	Lecture Hands-on Activities <ul style="list-style-type: none"> <li>• Repairing home appliances</li> </ul> Evaluation Closing Ceremony	8 hrs.	Dr. Jose D. Sanvictores and Mr. Chester Allan M. Mendez with the assistance of the SSP and ESS members, Mr. Gino A. Cabrera and SPED Teachers
		32 hrs.	

#### F. Highlights and Summary of Output (descriptive report)

The Basic Electronics Course of the SMILE for HIs Extension Project lasted for 4-Sunday session covering a total of 32 training hours. Professors and Instructors from the Electronics program of College of Industrial Technology generously devoted their time and expertise in providing lectures and creating hands-on exercise among the participants while SPED teachers from PSL, MSES and LPNHS facilitate the sign language translation. With the help of the BSIT Electronics students (members of ESS) served as the shadow teachers who assisted the students in the completion of the hands-on activities.



## EXTENSION ACTIVITY REPORT

After 3 sessions, the last day of training was devoted for the final exercise that served as their final examination. They were instructed to bring home appliances needing to be repaired. They brought and repair desk fans, flat irons, electric kettles, speakers and other common devices at home. All of them felt accomplished for having successfully repaired their home appliances. A short evaluation followed.

### G. Evaluation of the Seminar /Training (Summary of Evaluation)

No. of Respondent: 17

Questions	No. of Participants who rated:				
	Best	Better	Good	Poor	No Answer
<b>A. LAYUNIN</b>					
1. Malinaw ang layunin ng lecture/ demonstration/ training.	17				
2. Napapanahon ang paksa.	14	1	1		
3. Sapat ang itinakdang oras para sa mga gawain.	13				1
<b>B. NILALAMAN NG CORSO</b>					
1. Ang mga paksa na tinatalakay ay angkop sa mga layunin.	14				3
2. Kapaki- pakinabang ang mga pinag- aralan.	15	1	1		1
3. Nakadaragdag sa kaalaman o kakayahan ang mga natutunan.	15		1		2
4. Ang mga teknolohiyang ibinigay ay angkop sa sitwasyon.	15		1		1
<b>K. TAGAPAGTURO</b>					
1. Nagpakita ng sapat na kaalaman.	17		1		
2. Nakakahikayat ang paraan ng kanyang pagtuturo.	17	1			
3. Malinaw ang kanyang pagsasalita.	16	1			
4. Mahusay magpaliwanag sa mga katanungan.	16	1			
<b>D. LUGAR/ KAGAMITAN</b>					
1. Angkop ang lugar sa pagsasanay.	16			1	1
2. Sapat ang espasyo para sa mga dumalo.	16			1	1
3. Sapat ang liwanag at temperature.	16			1	1
4. Sapat ang mga materyales at kagamitan.	16			1	1
<b>E. PALATUNTUNAN</b>					
1. Maayos ang naging takbo ng mga kabuuang gawain.	16	1			
2. Nagsimula at nagtapos ang mga Gawain sa itinakdangoras.	17				
<b>F.SUPORTA SA PAGSASANAY (lathalain/babasahin)</b>					
1. Husto ang pamimigay ng babasahin.	4		14		2
2. Mahahalaga ang impormasyon at napapanahon ang teknolohiyang isinasaad o tinatalakay.	4		14		2
<b>G. PAGSASAGAWA NG NATUTUNAN</b>					
1. Maaaring pagkunan ng panghanapbuhay.	17				
2. Makakapag- pataas ng pansariling kakayahan.	17				
<b>TOTAL</b>	291	6	33	4	16
<b>PERCENTAGE</b>	81.51%	1.68%	9.24%	1.12%	4.48%
<b>OVERALL RATING</b>	83.19%				

#### Analysis of Evaluation:

The evaluation summary which is composed of twenty-one (21) items listed above showed that 81.51% of the participants rated the activity as best, 1.68% as better, 9.24% rated as good, 1.12% rated poor and another 4.48% has no answer. With the total of 81.51% rated the activity as best and better. It shows that participants are satisfied on the training conducted.

#### H. Funding Agency & Actual Expenses

SLSU MOOE – 15, 114 .000 (for reimbursement – pending approval)  
PSWDO – 8, 000. 00



## EXTENSION ACTIVITY REPORT

### I. Appendices

- Photos with caption
- Copy of Attendance sheet
- Copy of Approved Project Proposal
- Copy of Letter Communications
- Copy of MOA (if applicable)

*Prepared by:*

**GINO A. CABRERA, MPsy, RPm**  
*Project Leader*

*Noted by:*

**RENE P. ZUBIETO, PhD (Cand.), RPm**  
*Research and Extension Coordinator*



## EXTENSION ACTIVITY REPORT

***SMILE for HIs: Basic Electronics Course***  
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The HI students are attentive during the opening discussions of Mr. Gino A. Cabrera.



Mr. Raniel Fabella of LPNHS and some electronics students serve as shadow teachers and facilitators.



Mr. Chester Allan M. Mendez of CIT writes the instruction for the participants' hands-on activities.



BSIT Electronics students are explaining the principles of color coding in electronics.





## EXTENSION ACTIVITY REPORT

Dr. Jose D. Sanvictorres lectures on tester reading while one of the participants and Ms. Lolita D. Eder of Mauban demonstrate the sign language.

Some of the participants as they actually repair some of their home appliances as part of their examination.