



Jansons Institute of Technology

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai
Accredited by NAAC and ISO 9001:2015 certified Institution
Coimbatore, Tamil Nadu – 641659
www.jit.ac.in



Institutions Innovation Council

In association with

Entrepreneurship Development Cell

Organized Two days Hands on Training on

“Chip Level Testing and Debugging for Smart Phones”

Program Schedule

Venue : Communication Laboratory

Date	Time	Content	Resource Persons
06/06/2022	9.00 AM – 10.30 AM	Inauguration	Mr.B.Krishnakumar, Managing Director, NTSPSTI, Coimbatore.
		Basics of mobile electronics	
		Smart Phone Trouble shooting concept	
	10.30 AM – 11.00 AM	Mobile Accessories	
		Innovative applications of Mobile App.	
		Finding mobile model	
		Use of various Tools & Instruments used in mobile phone repairing	
	11.00 AM – 11.15 AM	Tea Break	
	11.15 AM – 1.00 PM	Assembling & Disassembling	Mr.B.Babu Raman, Design and Test Engineer, New Technology,
		Testing of various parts with multimeter	
		Testing of Mic, Speaker, Ringer, using multimeter	
	1.00 PM – 2.00 PM	Finding faults and replacing the faulty parts	
		Lunch Break	
	2.00 PM – 3.30 PM	Soldering & De-soldering methods	Mr.A.Sajith Design and Test Engineer, NTSPSTI.
		Jumping	
	3.30 PM – 3.45 PM	Ringer trouble shooting solutions	
		Tea Break	
	3.45 PM – 4.15 PM	Touch /Display replacement	Mr.B.Babu Raman, Design and Test Engineer, New Technology.
		Continuity test	
		Voltage test	
07/06/2022	9.00 AM – 10.00 AM	SIM tray/Memory tray Replacement	Mr.B.Babu Raman, Design and Test Engineer, New Technology.
	10.00 AM – 11.00 AM	Battery Connector and Head Set pin replacement	
	11.00 AM – 11.15 AM	Tea Break	
	11.15 AM – 1.00 PM	Insert SIM /No signal solution	Mr.A.Sajith Design and Test Engineer, NTSPSTI.
		Charging port problem and solutions	
		All Hardware problem	
	1.00 PM – 2.00 PM	Lunch Break	
	2.00 PM – 2.45 PM	Practice Session	Mr.B.Babu Raman, Design and Test Engineer, New Technology.
		Network problem	
		Dead mobile trouble shooting	
	2.45 PM – 3.30 PM	Solder and De-solder a component using blower	
	3.30 PM – 3.45 PM	Tea Break	
	3.45 PM – 4.15 PM	Competition, doubts and objective type test.	Dr.P.Gowtham, ASP/ECE/JIT.


ED Cell Coordinator


Principal
PRINCIPAL
JANSONS INSTITUTE OF TECHNOLOGY
KARUMATHAMPATTI
COIMBATORE - 641 659.



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Event Report

Title : Chip Level Testing and Debugging for Smart Phones
Date (from & to) : 06/06/2022 to 07/06/2022 **Time (from & to)** : 9:00AM to 4:15PM
Venue (offline) : Network Laboratory
Organised by : Entrepreneurship Development Cell
In association with : JIT - Institution Innovation Cell

Speaker Details

Name : Mr.B.Krishnakumar,
Designation : Managing Director
Affiliation : New Technology Smart Phone Service and Training Institute,
25, Kamarajar Road, Singanallur, Coimbatore – 641015.
Topic : “Chip Level Testing and Debugging for Smart Phones”



JIT Website



<https://www.facebook.com/250442415535499/photos/a.450285145551224/1113205675925831/>
<https://www.instagram.com/p/CeSv587twlu/>
https://twitter.com/JIT_Offll/status/1532252124125741056/photo/1

No. of Participants / beneficiaries

Total (Participants/Beneficiaries)	Students	Teachers	Students (Outside institution)	Faculty (Outside institution)
26	21	05	-	-

Event Objective

- Identify different types of mobile phones and its parts.
- Recognise potential hazards in the repair of smart phones.
- Identify mobile phone faults and solve with modern tools.
- To enhance student's practical & technical skill and to make them well-matched with industry.

Event Summary

Day :1

The department of ECE in association with Entrepreneurship Development Cell organised a two-days workshop on " **Chip Level Testing and Debugging for Smart Phones** " at the network laboratory on 06th & 7th of June 2022. The duration of this workshop was two days, with seven-hour session each day in a total of fourteen hours properly divided into different hands on sessions. A mobile phone is a hand held mobile device that can perform several communication functions. The event was inaugurated by the **Mr. B. Krishna Kumar**, Managing Director New Technology, Coimbatore and **Dr.G.Vetrichelvi** Head of Department of ECE during her speech stressed the importance of hands on training and its benefits. On the first session of the Day 1. **Mr.B.Babu Raman**, Service Engineer of New Technology, Coimbatore gave an introduction and demonstrated Mobile Phones Architecture and component.

Mobile Electronics

- Smart Phone Trouble shooting Block Diagram
- Mobile Accessories, Innovative applications of Mobile App.

Factors to Consider When Choosing Mobile Phone Repair tools

When selecting tools and equipment for repairing mobile cell phones, you should consider the following factors. Cost, Brand, Quality/ Durability, Availability & Suitability.

Day : 2

In the second session, **Mr.A. Sajith** assigned mini projects to students. After the lunch break mobile testing was done with assistance from lab instructors. The afternoon session of Hands-on started at 1:30. P.M., where the participants are provided with laboratory sessions on Basics of Finding mobile model. Use of various Tools& Instruments used in mobile phone repairing, Assembling & Disassembling. The vote of thanks & concluding speech to motivate the student to participate in such workshop was given by the Entrepreneurship Development Cell Coordinator of the Workshop, Dr.P. Gowtham, ASP/ECE/JIT. He thanked the management of Jansons Institute of Technology, Principal, Vice Principal, Director and Head of Department of Electronics and communication Engineering and the entire faculty of ECE department, JIT Entrepreneurship Development Cell for extending their continuous and valuable support in organizing and conducting these kind of workshops. Special Thanks are extended to the office bearers of Entrepreneurship Development Cell, for extending their enduring support and encouragement.

Revenue Generated

- Total 21 Student Members Participated,
- Each student paid Rs: 400/- Kit Provided to the Students,
- Total Amount Collected Rs: 8,400/-

Event Photographs

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Department of Electronics and Communication Engineering
In Association with Entrepreneurship Development Cell

Organises a Hands on Training Workshop on

"Chip Level Testing and Debugging for Smart Phones"

Exclusive for JIIT Students.
Registration Fee Rs : 400/-
Venue : Network Laboratory
Date : 3rd & 4th June 2022
Timing : 9:00 AM to 4:15 PM

Mr.B. Krishnakumar,
Managing Director,
New Technology
Mobile Servicing and Training Institute
Coimbatore

Registration Link : <https://forms.gle/5HnGRTGefxNqKb8>

Workshop Flyer – Chief Guest Mr. B. Krishna Kumar, Managing Director New Technology, Coimbatore



Dr.G.Vetrichelvi, HOD/ECE, Address the Gathering at Communication Laboratory



Assembling and Disassembling by Mr.A.Sajith, Service Engineer



Debugging and Testing Demonstrated by Mr.B.Babu Raman, Service Engineer

The Hindu – 06.06.2022



Group Photo with Students Participants

COIMBATORE TODAY

RELIGION
Arsha Avinash Foundation:
Discourse of 'Bhagavad Gita'
Avinashilingam, Tatabad, 5 p.m.

CULTURE
Sthaayi Theatre: Street Play-
'Know your GST', Race Course, 4 p.m.

GENERAL
Jansons Institute of Technology:
Workshop on 'Chip Level Testing and
Debugging for Smart Phones', 9 a.m.
Jansons Institute of Technology:
Talk on 'Work Ethics and Professional
Development' 11.15 a.m.
Income Tax Department: 'Azadi Ka
Amrit Mahotsav', Inauguration by
Prime Minister Narendra Modi
through webcast, ICAI Bhawan,
Thudiyalur, 10 a.m.
Kathir College of Arts and Science
and Decathlon: 'World Bicycle Day',
9 a.m.
Sri Ramakrishna College of Arts
and Science: '35th Annual Day', 10
a.m.

Hindu News Paper Clipping – Workshop on Chip Level Testing and Debugging for Smart Phones


Event Outcomes

- Students can able to identify different issues in smart phones.
- Students learned to debug and test the smart phone.
- Unlocking of handset through codes and software.
- This workshop helped them to learn about fundamentals of mobile phone Servicing.

Event Feedback

How would you rate the event in terms of preparation, flow, and content?	<p>Excellent 80%</p> <p>Very Good 16%</p> <p>Good 4%</p> <p>Fair 0</p>
The content and activities of the event has increased my knowledge.	<p>Strongly Agree 85%</p> <p>Agree 13%</p> <p>Neutral 2%</p> <p>Disagree 0</p>
How would you rate the speaker in terms of knowledge and presentation?	<p>Excellent 88%</p> <p>Very Good 10%</p> <p>Good 2%</p> <p>Fair 0</p>
Overall experience of the event.	<p>Very Satisfied 86%</p> <p>Satisfied 14%</p> <p>Neutral 0</p> <p>Dissatisfied 0</p>
Suggestion for Improvements (If any)	Very informative and entertaining.

Date of report submission: 09/06/2022.


Faculty Coordinator
 (Dr.P.Gowtham)


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Two days workshop on "Chip Level Testing and Debugging for Smart Phones"

Hands on Training

In Association with Entrepreneurship Development Cell & New Technology, CBE.

PARTICIPANTS ATTENDANCE

The following students and Teachers are attended the program at Seminar hall and comm. Lab.

Sl. No.	Register No. JIT ID	Name of Students/ Teachers	Year & Department	06.06.2022		07.06.2022	
				FN	AN	FN	AN
1.	711119106021	PON KIRUTHIGA .S.K.	II - ECE	Kiruthiga	Kiruthiga	Kiruthiga	Kiruthiga
2.	711119106018	MONICA NANCY .V	II - ECE	Nancy	Nancy	Nancy	Nancy
3.	711119106707	SOOMYA .R	II - ECE	Somya	Somya	Somya	Somya
4.	711119106016	MANI SANKAR .P	II - ECE	Mani	Mani	Mani	Mani
5.	711119106022	PRAKASH .M	II - ECE	Prakash	Prakash	Prakash	Prakash
6.	711119106007	DHAYA MOORTHY .D	II - ECE	Dhaya	Dhaya	Dhaya	Dhaya
7.	711119106706	ANBALAGAN .A	II - ECE	Anbalagan	Anbalagan	Anbalagan	Anbalagan
8.	711120106304	SHINY PEARLINE .S	II - ECE	S.Shiny	S.Shiny	S.Shiny	S.Shiny
9.	711120106030	GOWTHAM MUTHU .K	II - ECE	K.Gowtham	K.Gowtham	K.Gowtham	K.Gowtham
10.	711120106011	P. Balaji	II - ECE	P.Balaji	P.Balaji	P.Balaji	P.Balaji
11.	711120106029	GOWTHAM .S	II - ECE	S.Gowtham	S.Gowtham	S.Gowtham	S.Gowtham
12.	711120106078	Nayab .Shaik	II - ECE	Nayab	Nayab	Nayab	Nayab
13.	711120106077	Grana Varshika .S	II - ECE	Grana	Grana	Grana	Grana
14.	711120106043	Geoni Mandini .K	II - ECE	Geoni	Geoni	Geoni	Geoni
15.	711120106088	Kiriti .V	II - ECE	Kiriti	Kiriti	Kiriti	Kiriti
16.	711120106051	Moses .P	II - ECE	Moses	Moses	Moses	Moses
17.	711119106702	T. Prathiba	II - ECE	Prathiba	Prathiba	Prathiba	Prathiba
18.	711119106015	N. Jothika	II - ECE	Jothika	Jothika	Jothika	Jothika
19.	711119106011	S. Gokulakrishnan	III - ECE	Gokulakrishnan	Gokulakrishnan	Gokulakrishnan	Gokulakrishnan
20.	711119106031	Venkatash .P	III - ECE	Venkatash	Venkatash	Venkatash	Venkatash
21.	711118106111	K. Keerthi Vasan	IV - ECE	Keerthi Vasan	Keerthi Vasan	Keerthi Vasan	Keerthi Vasan
Teachers							
22.	JIT-0215	Dr. G. Vetrivel	Prof & HOD	Vetrivel	Vetrivel	Vetrivel	Vetrivel

