

SheSpark

Spark Your Circuit Journey

A STEM Empowerment Program by IEEE SSCS Kerala Chapter

◆ Overview

SheSpark-Spark Your Circuit Journey is a one-day initiative by the IEEE Solid-State Circuits Society (SSCS) Kerala Chapter, aimed at inspiring higher secondary girl students to explore careers in electronics and solid-state circuits through motivation, mentorship, and hands-on learning.

◆ Purpose of this Event

The gender gap in STEM, especially in hardware-focused domains like circuit design and VLSI, persists due to limited exposure and encouragement at the school level. This initiative addresses that gap by offering:

1. **Inspiration** through real-life stories of women engineers.
2. **Information** on diverse career opportunities in electronics.
3. **Interaction** with real circuits through a guided workshop.

◆ Participants

1. **Students:** 36 girl students from school (12 teams of 3)
2. **Target students:** students of class 11th and 12th
3. **Date and Duration:** Aug 21st (10:00 AM to 1:00 PM)
- 4. **Venue:** Amal Jyothi College of Engineering

◆ Event Highlights

1.Motivational Session

A dynamic talk by a woman in electronics, sharing her journey to spark inspiration.

2.Career Talk: Future in Circuits

An industry expert highlights careers in VLSI, IC design, AI hardware, and more.

3.Hands-on Workshop: Build an Audio Amplifier

Students will assemble functional audio amplifiers, gaining real circuit-building skills.

◆ EVENT SCHEDULE

EVENT SCHEDULE		
S.NO.	EVENT	TIME
1	Inauguration	10:00-10:15
2	Interactive session (talk session)	10:15-11:15
3	Circuit Introduction and Hands-on Workshop	11:15-1:15
4	Lunch Break	1:00 onwards

◆ Resources & Support Required from Host Institutuion

1.Contacting schools and arranging 36 girl participants

2.Facilities: Projector, sound system, seating arrangements with tables

3.Venue Logistics

4.Assistance in Finding Resource Person for 2 sessions other than the workshop

◆ COMPONENT LIST

S.NO.	COMPONENT
1	Audio Jack
2	LM386 Audio Amplifier Module
3	Mini Breadboard
4	9V Battery
5	Battery connector
6	1w 8 Ohm Speaker
7	1000uf cap
8	0.1uf cap
9	10ohm resistor
10	5k pot
11	Single Strand wire
12	Wire strippers

◆ BUDGET

TOTAL BUDGET				
S.NO.	ITEM	QTY	RATE	TOTAL
1	Components	15 kits	320	4800
2	Participants Refreshment	36	21	750
3	Goodies	36	40	1440
4	Remuneration for speaker	2	2250	4500
5	momento (professional diary)	2	350	700
6	Banner	2	800	1600
7	travel allowance (volunteers)	6	700	4200
8	miscellaneous			<u>4500</u>
			<u>Total:</u>	<u>22490</u>

◆ Expected Impact

- Students gain **confidence** and early exposure to electronics.
- Clear **visibility into career paths** in solid-state circuits.
- Real-world **skills and curiosity** sparked through hands-on learning.
- Encourages **long-term inclusion** of women in core technology sectors.

◆ Vision Ahead

SheSpark is more than a one-time event. This will be a launchpad. This initiative has been planned to scale across multiple districts, cultivating a new generation of women engineers starting from school.