



# Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

**LEAD TO ILLUMINATE**



**ELECTRONICS**

**2021-22**



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## INDEX 2021-22

S.NO	MONTH	EVENT
1	OCTOBER	POSTER PRESENTATION
		TOPIC: BUILDING CLIMATE READY COMMUNITIES (CONDUCTED)
		DATE: 15.10.2021
		VENUES: PHYSICS LAB
2	NOVEMBER	PROFESSIONAL DEVELOPMENT PROGRAMME (CONDUCTED)
		TOPIC: SCILAB
		DATE: 18.11.2021 TO 27.11.2021
		VENUES: GOOGLE MEET
3	NOVEMBER	PROFESSIONAL DEVELOPMENT PROGRAMME (ATTENDED)
		TOPIC: PROFESSIONAL SKILLS
		DATE: 29.11.2021 TO 03.12.2021
4	DECEMBER	GROUP DISCUSSION (CONDUCTED)
		TOPIC: POLLUTION AND MEASURES TO BE TAKEN TO CONTROL IT
		DATE: 2.12.2021
		VENUE: I41
5	DECEMBER	INTRA COLLEGIATE COMPETITION
		TOPIC: CROSSWORD ON ELECTRONIC COMPANIES
		DATE: 8.12.21
6	DECEMBER	WORKSHOP (CONDUCTED)
		TOPIC: ARDUINO
		DATE: 15.12.2021 TO 17.12.2021



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		VENUE: I41
7	JANUARY	WEBINAR (CONDUCTED)
		TOPIC: TRAIN CONTROL ON RAILWAY NETWORK
		DATE: 22.01.2022
		VENUE: GMEET
8	FEBRUARY	FIELD TRIP
		VENUE: NATIONAL INSTITUTE OF NUTRITION
		DATE: 28.02.2022
9	MARCH	WEBINAR (CONDUCTED)
		TOPIC: AWARENESS ON E-WASTE MANAGEMENT
		DATE: 06.03.2022
		VENUE: GMEET
10	APRIL	TOPIC: CURTAIN RISER ON FIBRE OPTIC COMMUNICATIONS
		DATE: 26.04.2022
		VENUE: MONTFORT HALL
11	MAY	INTERCOLLEGIATE COMPETITION
		TOPIC: QUIZ USING KAHOOT
		DATE: 07.05.2022



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## POSTER PRESENTATION REPORT

**TOPIC: BUILDING CLIMATE READY COMMUNITIES**

**DATE: 15.10.2021**

**VENUE: Physics Lab**

**TIME: 12:00PM – 01:00 PM**

The Department of Electronics has organised a poster presentation on the theme “Building Climate Ready Communities” on 15<sup>th</sup> October, 2021 on the eve of ‘World Science Day’.

World Science Day was created by UNESCO (United Nations Educational, Scientific and Cultural Organisation) in 2001. It is celebrated on 10 November across the world. Under the acronym WSDPD (World Science Day for Peace and Development, it seeks to draw attention to the importance of scientific work worldwide. It also aims to keep people aware of emerging scientific issues, such as AI (Artificial Intelligence) and renewable energy. It also aims to highlight the relevance of science to how we save our lives and to use the technology that surrounds us to inspire people to participate in scientific activities.

This event was conducted with an objective to create awareness on various steps taken by the Government to combat climate change. Students participated with great enthusiasm.



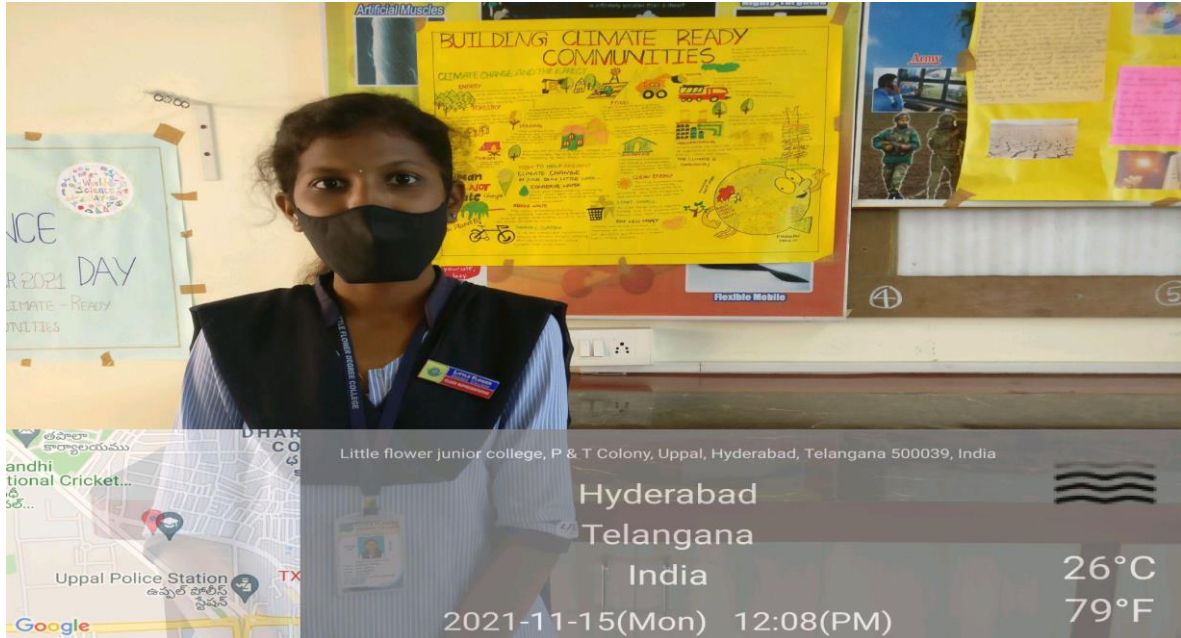


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**MS. Harathi from III MPSC presenting a poster on Various ways of Building Climate Ready Communities**



**Ms. T. Naga Lakshmi looking into the poster of Ms. Sravya from II BSC MECS**



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## **REPORT ON PROFESSIONAL DEVELOPMENT PROGRAM**

**TOPIC: SCILAB**

**DATE: 18.11.2021-27.11.2021**

**VENUE: ONLINE**

Department of Electronics and Physics organised an online professional Development program on SCILAB in collaboration with IIT Bombay Tutorials from 18<sup>th</sup> November – 27<sup>th</sup> November, 2021. The main objective of this PDP is to help the participants understand the basics of Scilab which is an open-source software, cross-platform numerical computational package and a numerically oriented high-level language. Orientation program was conducted on 18th November to explain to participants how to download the course material from IIT Bombay tutorial and download Scilab. At the end of the course, the exam was conducted online by IIT Bombay tutorials. Zoom link has been shared to the registered participants. Exam link is mailed to registered mail id. All the participants who scored 40 percent and above were awarded the certificates. The certificates were sent to their registered email as soon as they qualified the exam. 10 participants qualified in the exam.

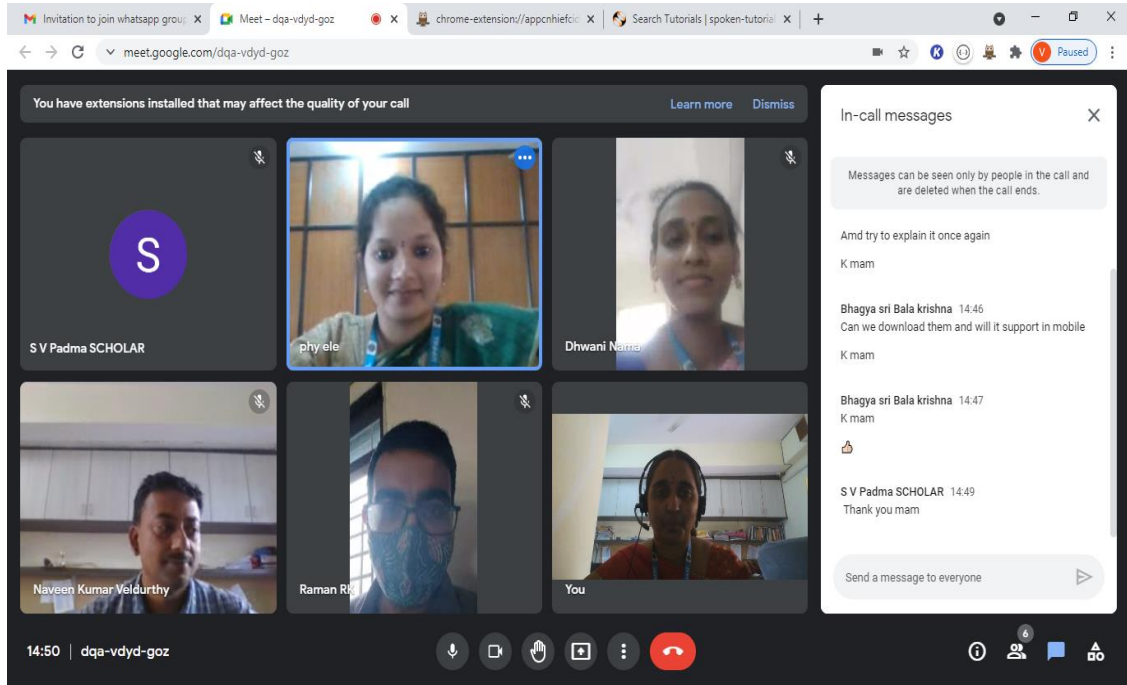


# Little Flower Degree College

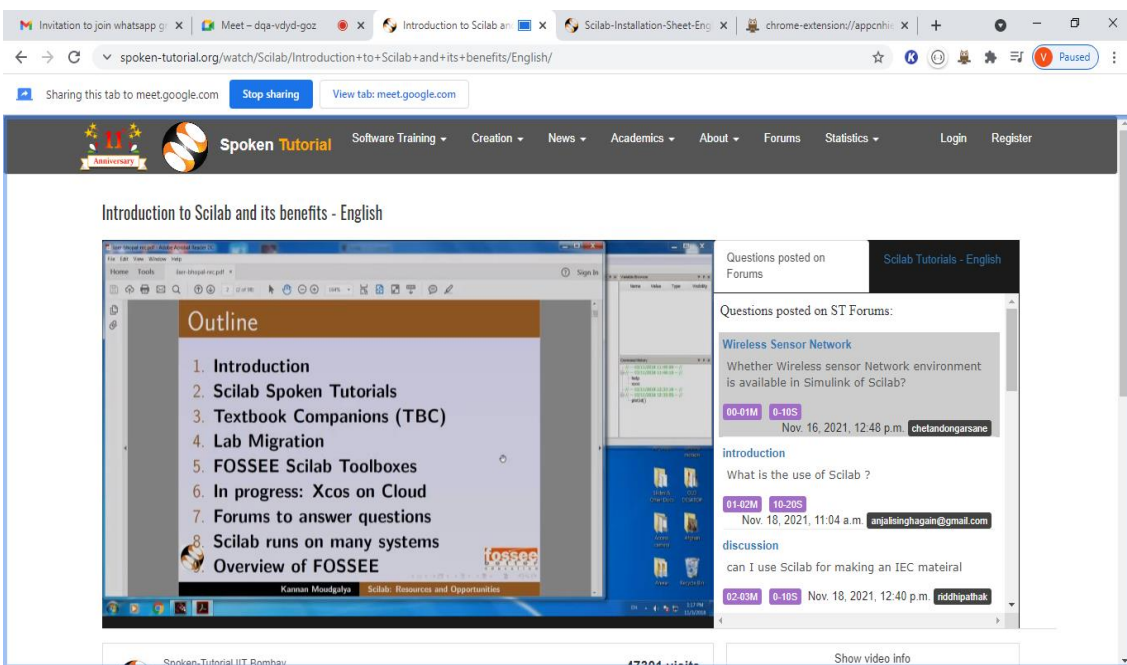
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**Ms. Sreelekha, Head, Department of Physics welcoming the participants**





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**Ms. T. Naga Lakshmi, Head, Department of Electronics introducing the SCILAB course to participants**

## **REPORT-PDP**

**Topic:** PROFESSIONAL SKILLS

**Date:** 29-12-2021 to 03-12-2021

**Venue:** Montfort Hall

**Time:** 02:00 PM – 04:00 PM

Ms. T. Naga Lakshmi, Head, Department of Electronics attended the 5-day PDP on 'Professional Skills' which was conducted by the management from 29th November 2021 to 3rd December 2021. The main objective of the programme is to improve one's own and other's lives and career – planning, organising, decision-making etc., The resource person of the PDP was MS. Sushumna, trainer, Packet Prep Hyderabad. On day 1 the session was on 'Presentation Skills'. On day 2 the importance of 'Teamwork' was discussed. On day 3 all faculty members were involved in 'Group Discussion'. On day 4 the session is about 'Body Language'. On day 5 the importance of professional skills on 'Career Opportunities' were discussed.

Each day the faculty were engaged in different activities to have a better understanding of the skills discussed. All the faculty members received participation certificates at the end of the PDP program.



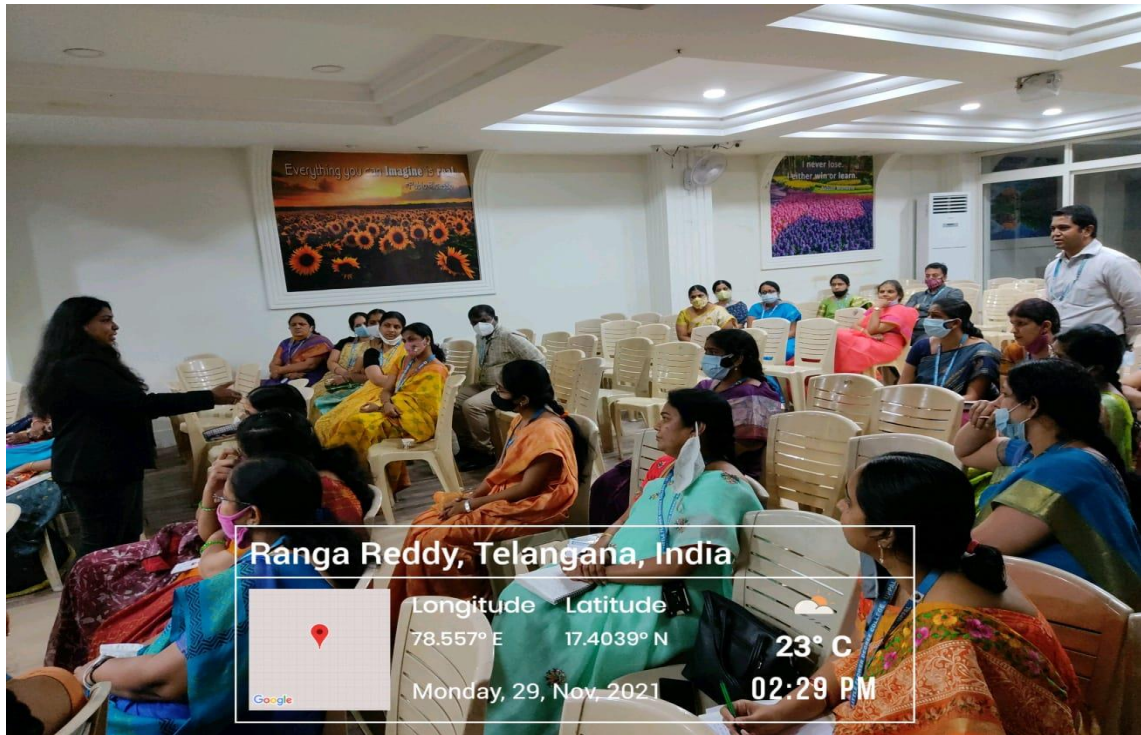


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Ranga Reddy, Telangana, India



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78.557° E 17.4039° N

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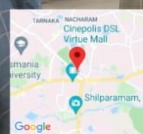
Monday, 29, Nov, 2021

02:29 PM

**Ms. Sushumna interacting with the faculty**



Ranga Reddy, Telangana, India



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78.5575° E 17.4048° N

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Tuesday, 30, Nov, 2021

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Ms. Sushumna explaining the activity

## REPORT ON GROUP DISCUSSION

**TOPIC: WAYS TO REDUCE POLLUTION**

**VENUE: I41**

**DATE: 02.12.2021**

**TIME: 11:30 AM – 12:30 PM**

The Department of Electronics has organised an awareness program on 'National Pollution Control Day' on December 2, 2021. The objective of this event is to create awareness on the increasing pollution and its effects on the environment. Videos were shown to the students. Later students were divided into groups to discuss and come up with solutions to reduce and control pollution. Students actively participated in the group discussion. They also came up with various solutions to control pollution.







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**Ms. Naga Lakshmi, Head, Department of Electronics interacting with students**



**Students discussing Various ways to combat pollution**



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## REPORT ON INTRA COLLEGIATE COMPETITION

**TOPIC: CROSSWORD PUZZLE - ELECTRONICS COMPANIES**

**VENUE: I43**

**DATE: 08.12.2021**

**TIME: 12:00PM – 01:00PM**

The Department of Electronics has organised 'crossword on Electronics companies' as a part of intra collegiate competitions on 8<sup>th</sup> December, 2021. The objective of the program is to test the knowledge of the students in identifying the name of the Electronics Company from its tagline. Students from all the streams actively participated in the event.



**Students actively participating in the crossword puzzle competition**



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## REPORT ON WORKSHOP

**TOPIC: WORKSHOP ON ARDUINO**

**VENUE: COMPUTER LAB**

**DATE: 15.12.2021 - 17.12.2021**

**TIME: 10:00AM-03:00PM**

A 3-day workshop on 'Arduino programming' was conducted from 15th December 2021 to 17th December 2021 by the Department of Physics and Electronics in collaboration with Sanshah Innovations Pvt. Limited from 10 am - 3pm at Computer Lab. The resource person of the workshop was Mr. Sanjay, CEO, Sanshah Innovations Pvt. Ltd. The main objective of the workshop was to introduce students to the basics of Arduino programming. This workshop enabled the students to understand how Arduino acts as an interface between hardware and software. They were also able to execute simple projects using LED, sensors, servo motors. Students actively participated in the workshop and clarified their doubts from time to time with the trainer.



**Mr. Pranay & batch, II B.SC MECS constructing the circuit on breadboard**





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**Principal Rev. Bro. Vincent Reddy along with Mr. Sanjay, Resource person presenting the participation certificate to Mr. Anish of III B.SC MPCS**



**Ms. T. Naga Lakshmi, Head, Department of Electronics & Mr. Sanjay Resource person with II BSC MECS Students**



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## WEBINAR REPORT

**TOPIC: TRAIN CONTROL ON RAILWAY NETWORK**

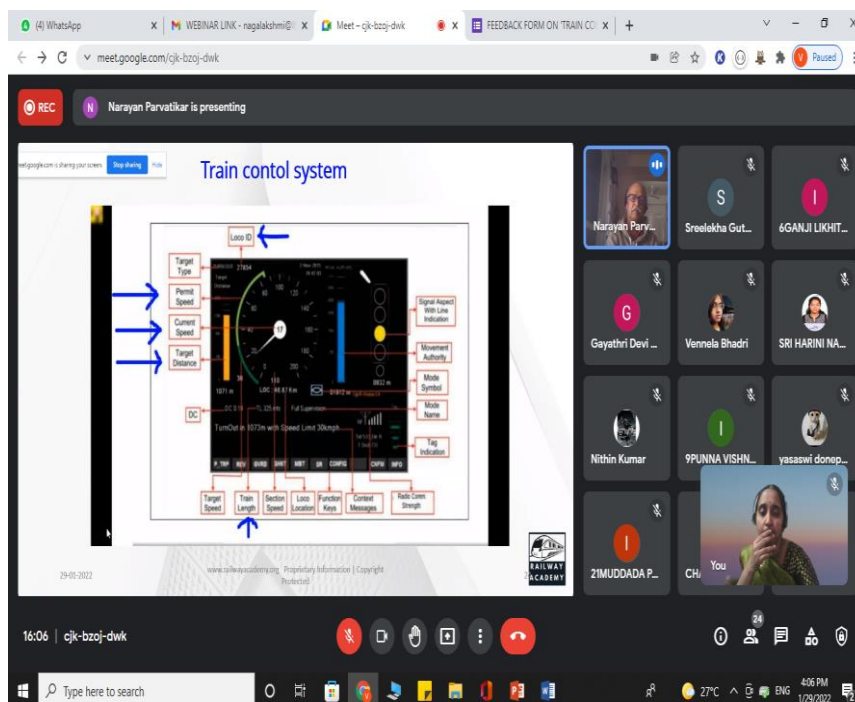
**VENUE: ZOOM – ONLINE**

**DATE: 29.01.2022**

**TIME: 02:30 PM – 04:30 PM**

A webinar on 'Train control on Railway Network' was conducted by the Department of Electronics on 29<sup>th</sup> January, 2022. The speaker for the day was Mr. Narayan Parvatikar, Railway signalling and Railway signal training provider. The main objective of the webinar is to understand how the railway network is maintained.

Mr. Narayan introduced about the history of train journeys in India, signalling in railways, components of railway system, train control system, various companies who manufacture rail components. He elaborately discussed all the above topics. Students understood clearly about how railways function, signalling system and their network.



**Guest speaker Mr. Narayan Parvatikar explaining about Train Control System**



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**Mr. Narayan Parvatikar explaining about the communication system**



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## FIELD TRIP REPORT

**Venue:** NATIONAL INSTITUTE OF NUTRITION

**Date:** 28-02-2022

The Department of Electronics went on a Field Trip to National Institute of Nutrition, Tarnaka, and Hyderabad on the eve of 'National Science Day'.

Every year February 28 is celebrated as 'National Science Day' to mark the invention of the 'Raman Effect'. The day is celebrated to encourage youth to understand the aspects of science and develop an interest in it.

The National Science Week Festival was organised by NIN and took place from February 22 to February 28, 2022. NIN featured numerous posters during the event that featured the biographies of various scientists and their contributions to science. The audience was drawn in by the nutrition displays. A DRDO stall displayed a variety of missiles, including the Astra and Nag. Scientists provided a thorough explanation of the structure, operation, and various electronic parts of the missile. A book fair was also held, with many books on science, inventions, scientist biographies, and India's freedom movement, in addition to all of the above.

The event was attended by students from MECS I and III as well as T. Naga Lakshmi, Head of the Department of Electronics. Students learned a great deal in a variety of subjects.





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## Secunderabad, Telangana, India

Tarnaka Railway Degree College, Krishna Deva Raya Road, IRISSET, Mettuguda, IRISSET, Mettuguda, Secunderabad, Telangana 500061, India  
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Long 78.527505°  
28/02/22 12:39 PM







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## AWARENESS PROGRAM REPORT

**TOPIC: ENVIRONMENTAL HAZARDS OF ELECTRONIC WASTE**

**DATE: 06.03.2022**

**VENUE: ZOOM (ONLINE)**

**TIME: 12:00 PM – 01:00 PM**

An awareness program on E-waste management was conducted by the Department of Electronics for all streams on 6<sup>th</sup> March, 2022. This program was conducted as a part of 'clean to green initiative' by the Ministry of Electronics and Information Technology In association with the We Drona Foundation. The main objective of the program is to educate and spread awareness about environmental hazards of E-waste.

Dr Arjun Singh, Director, We Drona foundation explained the students about

- a. Types of waste
- b. Waste management
- c. Differences between E-waste and Plastic waste
- d. Types of E-waste
- e. Hazards of E-waste
- f. Composition of various metals in e-waste

Students enthusiastically participated in the workshop and understood about the importance of segregating e-waste to protect the environment



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Zoom Meeting 40-Minutes

You are viewing Dr.ARJUN SINGH's screen

Dr.ARJUN SINGH is talking...

Recording Original Sound: On

Ministry of Electronics and Information Technology Government of India

## Composition of Electronic Waste

The composition of e-waste is very diverse and contains products across different categories. A typical electronic and electrical item consists of more than 1000 different substances which can fall under hazardous and non-hazardous categories. The major constituents are ferrous and non-ferrous metals, plastics, glass and plywood, printed circuit boards, concrete and ceramics, rubber and other items. Iron and steel constitutes about 50% of the WEEE followed by plastics (21%), non-ferrous metals (13%) and other constituents. Non-ferrous metals consist of metals like copper, aluminum and precious metals like silver, gold, platinum, palladium etc.

Pollutant/Element	Occurrence
Arsenic	Semiconductors, diodes, microwaves, LEDs (light emitting diodes), solar cells
Barium	Electron tubes, filler for plastic and rubber, lubricant additives
Brominated agent flame proofing	Casing, circuit boards (plastic), cables and PVC cables
Cadmium	Batteries, pigments, solder, alloys, circuit boards, computer batteries, monitor cathode ray tubes (CRTs)
Chromium	Dyes/pigments, switches, solar
Cobalt	Insulators
Copper	Conducted in cables, copper ribbons, coils, circuitry, pigment
Lead	Lead rechargeable batteries, solar, transistors, lithium batteries PVC(polyvinyl chloride) Stabilizers, lasers, LEDs, thermoelectric elements, circuit boards
Liquid crystal	Displays
Lithium	Mobile telephones, photographic equipment, video equipment (batteries)
Mercury	Components in copper machines and steam irons, batteries in clocks and pocket calculators, switches, LCDs
Nickel	Alloys, batteries, relays, semiconductors, pigments
PCB (Polychlorinated biphenyls)	Transformers, capacitors, softening agent for paint, glue, plastic
Selenium	Photoelectric machine cells, pigments, photocopiers, fax
Silver	Capacitors, switches (contacts), batteries, resistors
Zinc	Steel, brass, alloys, disposable and rechargeable batteries, luminous substances.

Mute Stop Video

Participants 34 Chat Share Screen Record Reactions Apps

Type here to search

31°C Sunny 12:16 PM 3/6/2022

Leave

## Dr Arjun Singh explaining the various chemicals and their compositions present in Electronics waste

Zoom Meeting

Recording

Participants (37)

Q. Find a participant

NL naga lakshmi, LFDC (Me)

DS Dr.ARJUN SINGH (Host)

25 201019468003 Sanjana Reddy

25 201019468011 Sirichandana m...

201019474025 YUVARAJ MECs 2

2C 201020441007 choppa mahesh...

I Abhigna Joshi

AS Aditi Singh

A Anish

CJ Catherine Joseph

DEEPAK RAJ KELLA

GS G.MUKUND SRIVASTHAV

GA Galaxy A20

GA Ganesh's A22

Invite Mute Me

## E-WASTE MANAGEMENT

**Solution**

**RESPONSIBLE REUSE**

- Old data is destroyed permanently
- Device details noted and functionality checked
- Working electronics enter reuse process

**RESPONSIBLE RECYCLE**

- Resold through remarketing channels
- Obsolete electronics enter the recycle process
- Dismantle and shredded to optimal size
- Separate parts are sorted
- Combined and new products are created

Electronic items are used

Dr.ARJUN SINGH

Type here to search

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## Dr Arjun Kumar explaining the various ways of managing E-waste



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Zoom Meeting

Recording

Participants (34)

Find a participant

Manjunadh yadav

MERJA NANDKISHORE RAMES...

Mounika Konderu

Niharika

Pavan

POOJA

Preeti

rama devi

Rojasree Bodasu

Ruchita Kalyanapu

S.Chaitanya Latha

shiva prasad

Shubham

Singadasari Sannidhi

Invite

Mute Me

31°C Sunny 12:20 PM 3/6/2022

Electronic and Plastic Waste in Landfills, Dumping grounds and everywhere else is polluting our resources, like Air Water and Soil, beyond repair

Countries With Biggest Number Of Mobile Phone Users

Country	2015	2018
China	150 Million	1.3 Billion
India	310 Million	1.1 Billion
USA	126 Million	329 Million

Source: AZDZCHAM 07/16/20

The great Indian waste

1.43 lakh tonnes: daily waste generation

78%: untreated sewage

15,000: tonnes of daily plastic waste

9,600: tonnes of solid waste generated in Delhi alone

60-75%: plastic waste in Delhi is recyclable

LITTERING IN PUBLIC, HEAVY ON POCKET

DR. ARJUN SINGH

**Dr Arjun Singh explaining the rise of mobile usage and the harmful effects of disposing e waste with other waste.**



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## REPORT ON ORIENTATION PROGRAMME

**TOPIC: FIBRE OPTIC COMMUNICATION AND ASSOCIATED JOBS**

**VENUE: MONTFORT HALL**

**DATE: 26.03.2022**

Department of Electronics and physics has organised a curtain raiser program on Fiber Optic Communication and its associated jobs in collaboration with RABSA Technologies Pvt. Ltd on 26<sup>th</sup> March, 2022. Mr. Suresh Mehra, CEO explained the importance of Fibre optic communication and gave an insight into the training offered by their institute to become a successful fibre optic technician. He explained to the students about the job opportunities in this field.



**MR. SURESH MEHRA, DIRECTOR, RABSA TECHNOLOGIES PRIVATE LIMITED EXPLAINING ABOUT THE CONTENTS OF THE FIBRE OPTIC TECHNICIAN COURSE**





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**STUDENTS FROM III B.SC (MECS, MPCS) ACTIVELY PARTICIPATING IN THE GUEST LECTURE**



**VICE PRINCIPAL MRS.JAYANTHI REDDY PRESENTING THANK YOU MEMENTO TO MR. SURESH MEHRA**





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## REPORT ON INTER-COLLEGIATE COMPETITION

**TOPIC: QUIZ USING KAHOOT**

**VENUE: I43**

**DATE: 07.05.2022**

**TIME: 12:00PM – 01:00PM**

The Department of Electronics has organised a quiz on Basic Electronics using Kahoot app as a part of intercollegiate competitions on 7th May 2022. The objective of the program is to test the knowledge of the students in basic electronics. Students from all the various colleges actively participated in the event.



**MS. T. Naga Lakshmi, Head, Department of Electronics along with participants**