



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR (2021-2022) ODD SEMESTER**

**REPORT
ON
ONE DAY
ORIENTATION PROGRAM
For II ECE students
18.08.2021**

Coordinator

Mr.T.Jeyaseelan, AP/ECE

The Department of Electronics and communication Engineering, Kings College of Engineering organized an Orientation Program for II year undergraduate ECE students on 18.08.2021 by online through google meet application. The orientation began with a brief Welcome address by Mrs.N.Mangaiyarkarasi, HOD, ECE Department and the students were formally welcomed for the orientation program.

Mr. B. Suresh Babu, AP/T&P delivered a talk on "**Objectives and Activities of Training and Placement**" between 9.30 AM to 10.45 AM. He highlighted that the Objective of Training and Placement Cell is to guide students to choose right career and to give knowledge, skill, and aptitude and meet the manpower requirements of the Industry. T&P motivates students to develop their academic and career interests, and their short and long-term goals through individual counseling and group sessions. He also emphasized the Roles and activities of T&P as stated below.

Roles and Activities

- Maintaining database of companies and establishing strategic links for campus recruitments.
- Maintaining and regularly updating the database of students.
- Gathering information about job fairs and all relevant recruitment advertisements.
- Coordinating with companies to learn about their requirements and recruitment procedures
- Identifying the needs and expectations of the companies to assist them in recruiting most suitable candidates.
- Organizing pre-placement training/workshops/seminars for students.
- Arranging periodic meetings with Human Resources Department of companies to promote recruitments.
- To assist students for industrial training at the end of the fourth and sixth semester.
- To act as a link between students, alumni, and the employment community.
- To assist students in obtaining placement in reputed companies.
- Inform students about the available job opportunities in government sectors and off campus drives.
- Arranging Motivational Talks and Conducting Psychometric Test.
- Conducting Personality Development Programs and Skill Imbibing Programs to develop Communication Skills & Vocabulary
- Providing guidance on Resume Preparation & Email Writing
- Organizing Group Discussion and developing Interview Skills
- Conducting Aptitude Training & Practice Tests
- Communicating with Alumni for available openings.
- Communicating with industry for campus interviews.

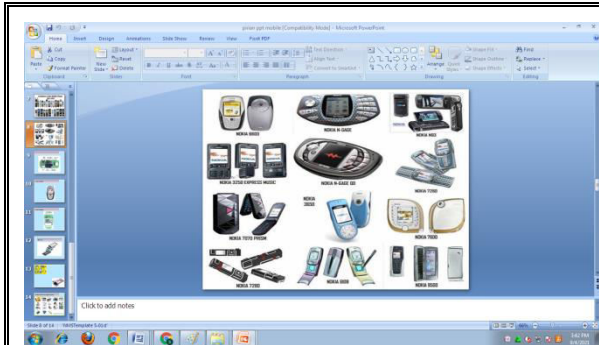
Mrs.N.Mangaiyarkarasi, HOD, ECE delivered a talk on **“NPTEL, SWAYAM Courses, Club Activities, Mini Project and GATE Preparation initiatives”** between 11.35 AM to 12.00 PM. She highlighted that now-a-days electronics and communication engineers need to participate importantly in ICT based learning such as NPTEL and SWAYAM courses and participate in electronics club activities to enrich their technical knowledge apart from the class room learning. She also insisted that building Mini Project and preparing for GATE exam could build their career in industry and Research.

Mr.P.Raja Pirian, AP/ECE, presented a technical talk on **“Mobile Phone Hardware architecture and assembling”** between 11.45 AM to 12.30 PM. He explained about the components of mobile phone, Mobile software, Mobile architecture, Mobile hardware, Identifying issues, Installation of software, flashing the device, Mobile assembling and disassembling and diagnostic tools. He also insisted that skills on this domain could help in building career in electronics and communication engineering and entrepreneurship.

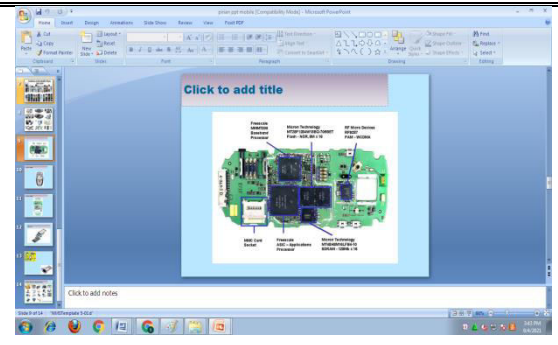
Mr.T.Pasupathi, AP/ECE delivered a talk on **“Computer Peripherals and Troubleshooting”** between 12.30 PM to 1.00 PM. He explained about fundamentals of operating systems, software, and computer hardware. He also explained the basic troubleshooting steps for computer hardware and software. Through this technical talk, the students gained practical knowledge on this domain.

Mr.S.Ramarajan, AP/ECE delivered a talk on **“Simple electronic circuits for beginners”** between 1.45PM to 2.30 PM. He demonstrated some real-time electronic circuits such as Led flasher, object detection using IR sensors, and water level indicator. Through this technical talk, the students gained knowledge on electronic circuits and its applications.

Mr. E. Venugopal, AP/ECE, Sri Eashwar College of Engineering, Coimbatore delivered a technical talk on **“Robotics and its Applications”** between 2.45PM to 3.45 PM. He explained about the main components of Robot such as Control system, Sensors and Actuators. He explained and demonstrated the design of Robot practically with a design tool. Through his technical talk, the students gained technical knowledge on hard ware and software architecture of a typical Robot. Finally he shared the typical applications of Robots in detail. The session was very useful for all the students.

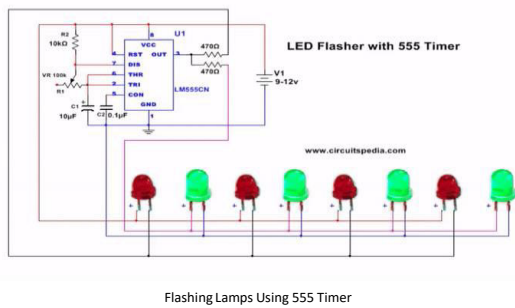


Presentation on "Mobile Phone Hardware architecture and assembling" by Mr.P.Raja Pirian, AP/ECE



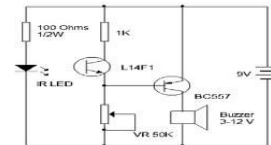
Presentation on "Mobile Phone Hardware architecture and assembling" by Mr.P.Raja Pirian, AP/ECE

Circuit Diagram:

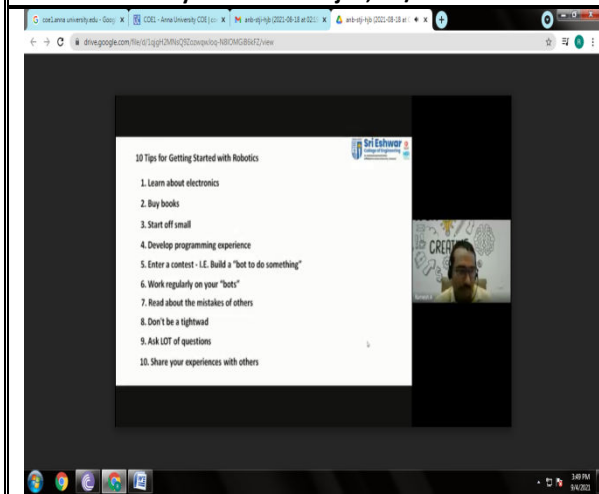


Presentation on "Simple electronic circuits for beginners" by Mr.S.Ramarajan, AP/ECE

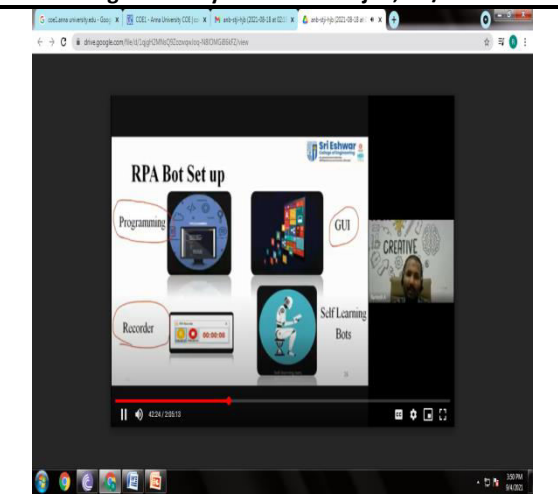
- When the infrared beam breaks, then the phototransistor turns OFF, permitting the PNP transistor to perform and the buzzer sounds.
- Fix the phototransistor and infrared LED on the reverse sides with the correct position to make the buzzer silent.
- Adjust the variable resistor to set the biasing of the PNP transistor.
- Here other kinds of phototransistors can also be used instead of L14F1, but L14F1 is more sensitive.



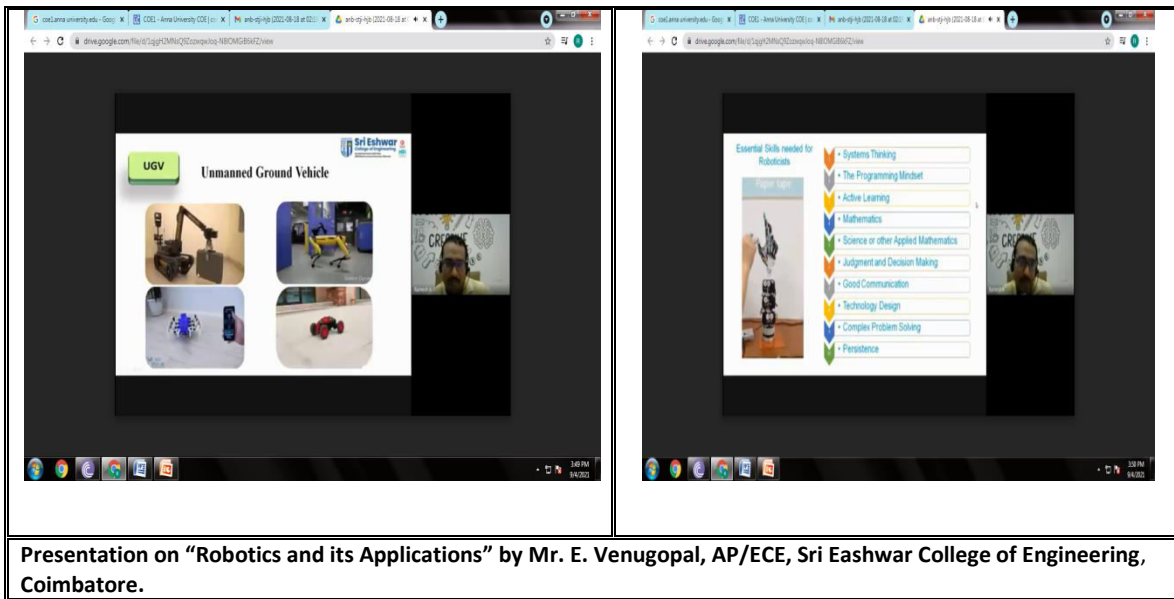
Presentation on "Simple electronic circuits for beginners" by Mr.S.Ramarajan, AP/ECE



Presentation on "Robotics and its Applications" by Mr. E. Venugopal, AP/ECE, Sri Eashwar College of Engineering, Coimbatore.



Presentation on "Robotics and its Applications" by Mr. E. Venugopal, AP/ECE, Sri Eashwar College of Engineering, Coimbatore.



Presentation on “Robotics and its Applications” by Mr. E. Venugopal, AP/ECE, Sri Eashwar College of Engineering, Coimbatore.

The applications included as below

- ✓ Helping fight forest fires
- ✓ Working alongside humans in manufacturing plants (known as co-bots)
- ✓ Robots that offer companionship to elderly individuals
- ✓ Surgical assistants
- ✓ food order delivery
- ✓ Autonomous household robots that carry out tasks like vacuuming and mowing the grass
- ✓ search-and-rescue missions after natural disasters
- ✓ Landmine detectors in war zones

Mrs.U.Jeyamalar, AP/ECE, delivered vote of thanks and outlined the importance and outcome of the program.

Staff-In charge
T.Jeyaseelan, AP/ECE

HOD/ECE

PRINCIPAL
