The Technical Magazine

ETHAMITES

DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING

ADITYA
ENGINEERING COLLEGE(A)

APPROVED BY AICTE
NEWDELHI AND AFFILIATED TO
JNTU KAKINADA

ABOUT ECE DEPARTMENT

The department of Electronics and Communication Engineering at Aditya strives to produce highly competent engineers equipped with advanced professional knowledge, entrepreneurial thinking, professional and ethical attitude, critical problem solving and analytical skills through effective teaching learning process, research and industrial collaboration and established as one of the major departments of the institute.

The faculty of the department, a rich blend with academic and industrial experience, has been constantly carrying out research on many cutting-edge technologies with regular publications in Springer, Elsevier and other top international journals. The academic quality of the department is reflected by the laurels won by the students and the distinguished positions in industry and academia occupied by alumni.

The department strives to upgrade the knowledge of faculty and students by organizing various Workshops, Industry-Institute Interactions, Continuous Improvement Programs inviting eminent personalities from Industry and academic Institutions, Seminars and Research activities.

VISION OF THE DEPARTMENT

- To become a centre of excellence in the field of Electronics and Communication Engineering with techno

  logical capability, professional commitment and social responsibility.

MISSION OF THE DEPARTMENT

- Provide quality education, well-equipped laboratory facilities and industry collaboration.
- Promote cutting edge technologies to serve the needs of the society and industry through
  Innovative research.
- Inculcate professional ethics and personality development skills.

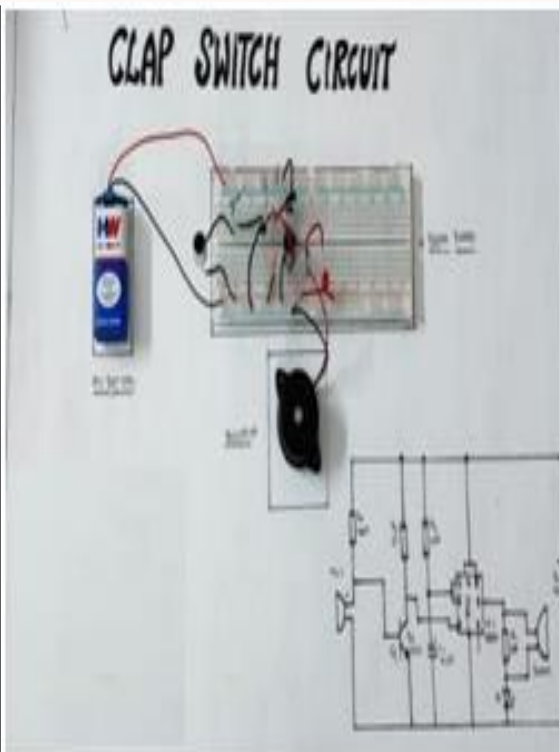# *CONTENTS*

STUDENTS INNOVATIONS

CLAP SWITCH

This is a project on CLAP SWITCH which can switch on/off any electrical circuit by the sound of a clap. If we clap the lamp turns on and to switch it off clap again. Basically, this is a Sound operated switch.

The condenser microphone picks up the sound of your claps, coughs, and the sound of that book knocked off the table. It produces a small electrical signal which is amplified by the succeeding transistor stage.

20A91A0407
20A91A0423
20A91A0428
20A91A0453

III ECE-A

REMOTE CONTROL DOOR LOCK

Remote control switching device for household application is a home device used to control the switching of household appliances from a distance. It serves to make the switching of household appliances easy for the elderly, physically challenged, the young and anyone who, in any circumstance, needs comfort and security.

This project develops a remote control system using the Radio Frequency technology utilizing multiplexers, demultiplexers, encoders, decoders, and Radio Frequency module with the analysis of various technologies which can be used for the development of a remote control system.

20A91A0474
20A91A0482
20A91A0489
20A91A04A7
III ECE-B

STUDENT ACTIVITIES

K.Guna Sekhar 20A91A0427 of ECE-A participated in Mono Action and got II Prize at Satkalavahini District Youth Festival Kakinada.

- An Innovative Project done by the students of ECE to detect rain using Arduino-Uno.

A.LAKSHMI SNEHA   20A91A0401
A.S.V.G.S. SANDHYA 20A91A0402
B.NITYA SAHITHI   20A91A0408
G.BHAGYA DEEPIKA 20A91A0413

ART GALLERY

Md.Suheyila 4B4 III ECE-B

A.Saketh 444 IV ECE-A

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Artificial Intelligence, or AI, has already received a lot of buzz in the past decade, but it continues to be one of the new technology trends because of its notable effects on how we live, work and play are only in the early stages. AI is already known for its superiority in image and speech recognition, navigation apps, smartphone personal assistants, ride-sharing apps and so much more.

The AI market will grow to a $190 billion industry by 2025 with global spending on cognitive and AI systems reaching over $57 billion in 2021. With AI spreading its wings across sectors, new jobs will be created in development, programming, testing, support and maintenance, to name a few. On the other hand AI also offers some of the highest salaries today ranging from over $1,25,000 per year (machine learning engineer) to $145,000 per year (AI architect) - making it the top new technology trend you must watch out for!

Machine Learning the subset of AI, is also being deployed in all kinds of industries, creating a huge demand for skilled professionals. Forrester predicts AI, machine learning, and automation will create 9 percent of new U.S. jobs by 2025, jobs including robot monitoring professionals, data scientists, automation specialists, and content curators, making it another new technology trend you must keep in mind too!

I.Sri Vidya
II YEAR ECE –D 4I4

INTERNET OF THINGS (IoT)

Another promising new technology trend is IoT. Many "things" are now being built with Wi-Fi connectivity, meaning they can be connected to the Internet and to each other. Hence, the Internet of Things, or IoT. The Internet of Things is the future, and has already enabled devices, home appliances, cars and much more to be connected to and exchange data over the Internet.

As consumers, we're already using and benefitting from IoT. We can lock our doors remotely if we forget to when we leave for work and preheat our ovens on our way home from work, all while tracking our fitness on our Fitbits. However, businesses also have much to gain now and in the near future. The IoT can enable better safety, efficiency and decision making for businesses as data is collected and analyzed. It can enable predictive maintenance, speed up medical care, improve customer service, and offer benefits we haven't even imagined yet.

And we're only in the beginning stages of this new technology trend: Forecasts suggest that by 2030 around 50 billion of these IoT devices will be in use around the world, creating a massive web of interconnected devices spanning everything from smartphones to kitchen appliances. The global spending on the Internet of Things (IoT) is forecast to reach 1.1 trillion U.S. dollars in 2022. New technologies such as 5G is expected to drive market growth in the coming years.

T.Pavan Kumar
II YEAR ECE –A 430

ENGLISH POEM

SPEAK!!

Step in your own way Think a lot to say!!

Make the people happier and Give them something snappier!!

Become a great speaker And be a peace seeker!!!

Think... think... think... But don't get sink.

When all admire... You shouldn't expire!!!

Aware... aware... aware... You should also beware.

The words of you... Must praise you!!

If the speech of you is bold... The "Best speaker" you're told!!!

The better way you practice People must write a thesis!!! So, dump your feelings...

Which isn't a difficult dealing!!! So, get set ready...

Your speech must be steady... Really everyone

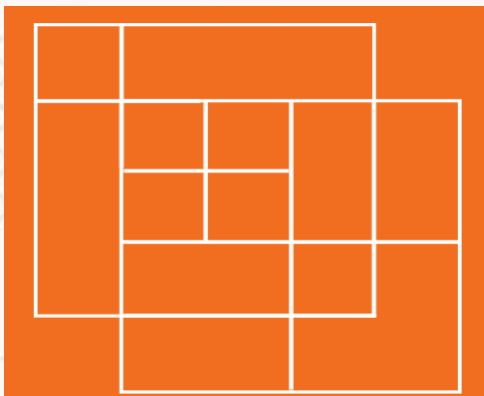will study and This world would be your teddy!!!

S.Malik-470
II ECE-B

"Life Doesn't Frighten Me"

Shadows on the wall

Noises down the hall

Life doesn't frighten me at all

Bad dogs barking loud

Big ghosts in a cloud

Life doesn't frighten me at all

Shadows on the wall

Noises down the hall.

Not enjoyment, and not sorrow,

Is our destined end or way;

But to act, that each to-morrow

Find us farther than to-day.

Y.Srivalli-461
III ECE-A

RIDDLES

How Many Squares are there in the given Figure?

by
Md.Malik
427 ECE-A

Quizomania

1..We've all heard about VoLTE , what does VoLTE stands for ?

Ans: Voice over Long-Term Evolution.

2. YouTube has launched its first ever pop-up space in which city?

Ans: Hyderabad.

3.ANI Technologies Pvt. Ltd is the parent company of?

Ans: OLA.

4.The first high-level programming was ……….

Ans: FORTRAN.

5.Which was the first Artificial intelligence program…

Ans. LISP.

by
K.Veerababu
4L1 ECE-D

MEET THE TEAM

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