Spiral Spectrum

2020-21

Volume-02

[JAN-JULY]

Department of Electronics and Communication Engineering

(Accredited By NAAC & NBA)

Acharya Institute of Technology,

Dr.Sarvepalli Radhakrishnan Road, Soladevanahalli, Bengaluru-560107, Karnataka, India.

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Vision and Mission

Institute

Motto

"Nurturing Aspirations Supporting Growth"

Vision

"Acharya Institute of Technology, committed to the cause of sustainable value-based education in all disciplines, envisions itself as a global fountainhead of innovative human enterprise, with inspirational initiatives for Academic Excellence".

Mission

"Acharya Institute of Technology strives to provide excellent academic ambiance to the students for achieving global standards of technical education, foster intellectual and personal development, meaningful research and ethical service to sustainable societal needs."

ECE Department

Vision

"To be a premier engineering department with excellence in teaching, research and innovation to meet the global industrial standards and to have significant impact on the well being of the society".

Mission

Mission 1

To provide student centric learning environment, inculcate profound knowledge in both fundamental and applied areas of science and technology.

Mission 2

To train and mentor the students in developing leadership qualities and team building skills along with professional ethics.

Aerial view of Acharya campus

A far view of ECE block

Far View of Central Library

PEO's and PSO's

Program Educational Objectives (PEO's)

PEO 1

Students shall have a successful professional career in industry, academia, R & D organization or entrepreneur in specialized field of Electronics & Communication engineering and allied disciplines.

PEO 2

Students shall be competent, creative and valued professional in the chosen field.

PEO 3

Engage in life-long learning and professional development.

PEO 4

Become effective global collaborators, leading or participating to address technical, business environmental and societal challenges

Program Specific Outcomes (PSO's)

PSO 1

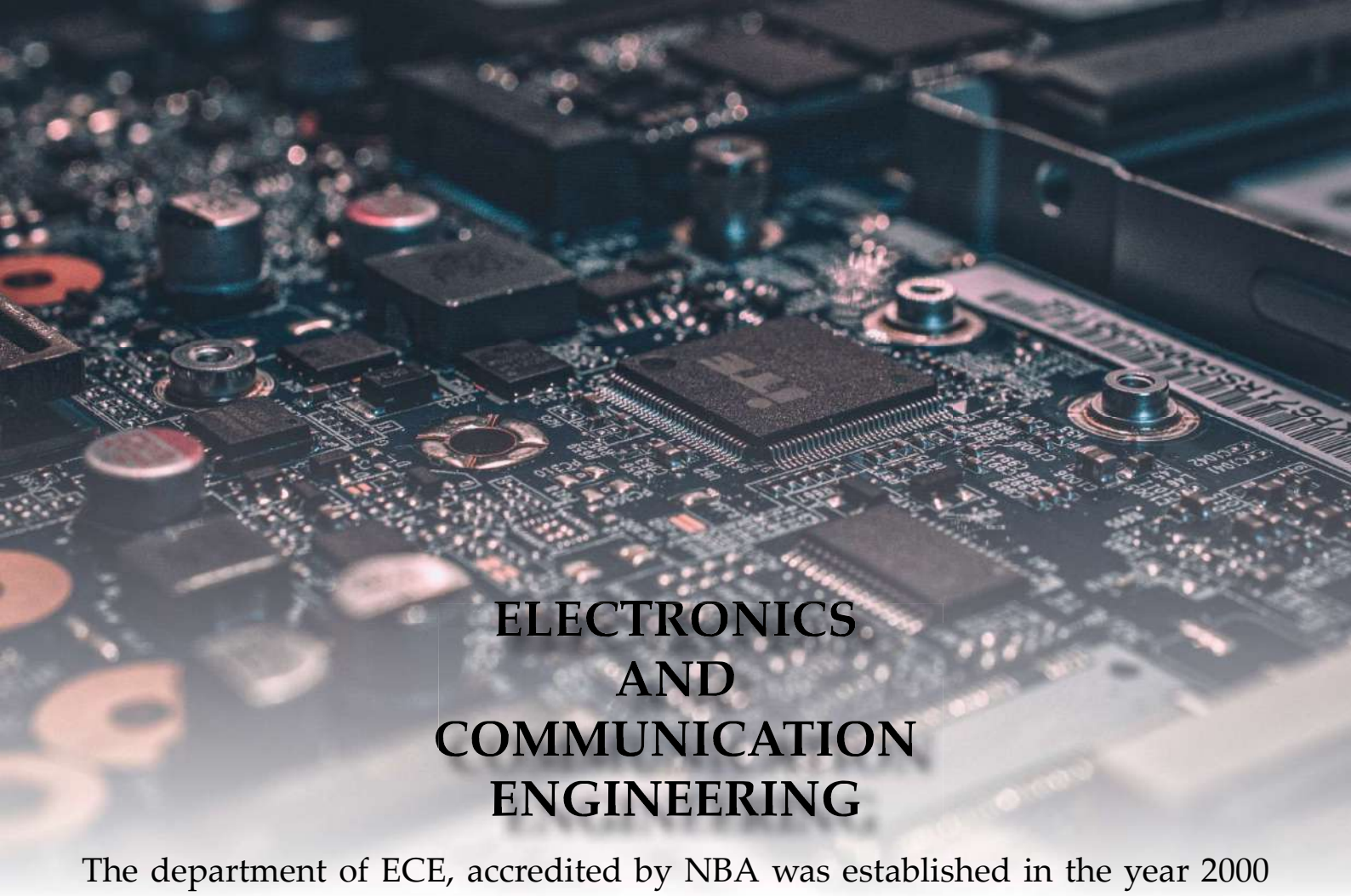
Analog / Digital Circuit Design: Apply the conceptual knowledge in the analysis and/or design; evaluate analog/digital circuits and systems

PSO 2

VLSI, Signal Processing and Embedded Systems: Demonstrate technical competency in the analysis,
Design and validation of components in VLSI, Signal Processing, and Embedded Systems.

PSO 3

Communication and Networking: Apply the domain knowledge In the implementation and performance analysis of Communication Systems and Computer Networks



ELECTRONICS AND COMMUNICATION ENGINEERING

The department of ECE, accredited by NBA was established in the year 2000 affiliated to Visvesvaraya Technological University (VTU), recognized by All Indian Council for Technical Education (AICTE), offers regular full time UG, PG & research program, has pioneered in carving the careers of its students and helping to acquire the necessary skills required for continuous growth with significant impact toward society.The department has qualified and experienced faculty members with specialization in Communication Engineering, Signal Processing, VLSI & Embedded Systems, the ongoing research activities include the areas of Signal Processing, VLSI, Smart Antenna System, Robotics, Artificial Intelligence, Machine Learning, Communication & Networking. The department facilitates well equipped laboratories strengthened by software like Cadence for VLSI Design, MATLAB. Development boards available are used by UG/ PG students for projects and research activities. The department facilitates skill development activities like workshops / summer-winter schools/ internships/contests in collaboration with industries like SASKEN Technologies, Schneider Electric, Moog India, GK Machineries and robotics, sandlogic, etc. The department has an MOU with institutes across the globe for student/ faculty exchange programmes. To enhance the knowledge on current trends, the department has conducted various Faculty Development Programmes, Workshops on DSP Algorithms and Architectures, VLSI, Sensors and Robotics sponsored by Indian Society for Technical Education (ISTE) and All India Council for Technical Education (AICTE) during the previous years. Department aims at holistic approach toward the development of students and society at large through building technical skill and managerial quality.

TAKING THE DEPARTMENT TO THE NEXT LEVEL

CHAIRMAN'S MESSAGE

At Acharya Institutes, we believe in **'Fueling the quest for knowledge'.**

In doing so, our commitments pave the way for the individual professional success which culminates in benefiting the society. Creating a vast state-of-the-art academic infrastructure, putting together best teaching talent, equipping with every required learning aid ensure that students at Acharya get the best in academics. Sporting, cultural and extra-curricular facilities are put in place so that the students enjoy their campus life. The wide range of Acharya academics encompasses Engineering, Management, Technology, Life Sciences, Pharmacy, Nursing, Teaching, Journalism, Communication, Fashion Design, etc. and has drawn aspiring youth from every part of India and across the globe. Acharya Institutes is truly emerging as the nurturing ground for leadership. It has become synonymous with practical and industry-focused education.

The fact that Acharyans, today, are a familiar face in the industry and the same is a demonstration of its total commitment to excellence in academics.

B Premnath Reddy
Founder Chairman

PRINCIPAL'S MESSAGE

I heartily congratulate the department of ECE, AIT for bringing the first issue of the prestigious half-yearly department News magazine "Spiral Spectrum -2020-21".

I am very much sure that it will provide a good platform for the students and faculty members to expand their technical knowledge and hidden literary talent which will strengthen the 360-degree development of students.

I take this opportunity to congratulate the editorial board for bringing out this magazine as per schedule, which in itself is an achievement considering the effort and time required. May all our students grow heights in uncharted skies and bring glory to the world.

Dr. Prakash M R
Principal, AIT

HOD'S MESSAGE

At the outset, I commend the efforts put in by the editorial team in bringing out the **"Spiral Spectrum Vol.2"**of the department news magazine.

As HOD of the department, I am proud of the commitment of the teaching and non teaching fraternity in the holistic development of the young minds by providing students centric learning environment, developing leadership qualities and team building skills along with professional ethics in them.

My best wishes with all the students and staff of ECE

Happy Reading !

Dr. Rajeswari
HOD,ECE

FROM THE EDITOR'S DESK

Greetings EChoes!

This semester has been an incredibly different semester with immense change. The year 2020 has posed unprecedented challenges to our lives and academics,nevertheless Technology has come to our rescue and online classes have become our new normal. Amidst all the challenges we still had a successful placement drive.

The new normal of attending classes from home ,it's not just a rescue measure but was a boon that has caused a change in our routines, and opened a way to discover some hidden talents and reflect on areas that were unnoticed.

The EChoes of Acharya have come together with some amazing productive outcomes of this quarantine which includes photography, art,poetry and many more activities waiting to be explored.

We bring forth to you **Spiral Spectrum (vol 2).**

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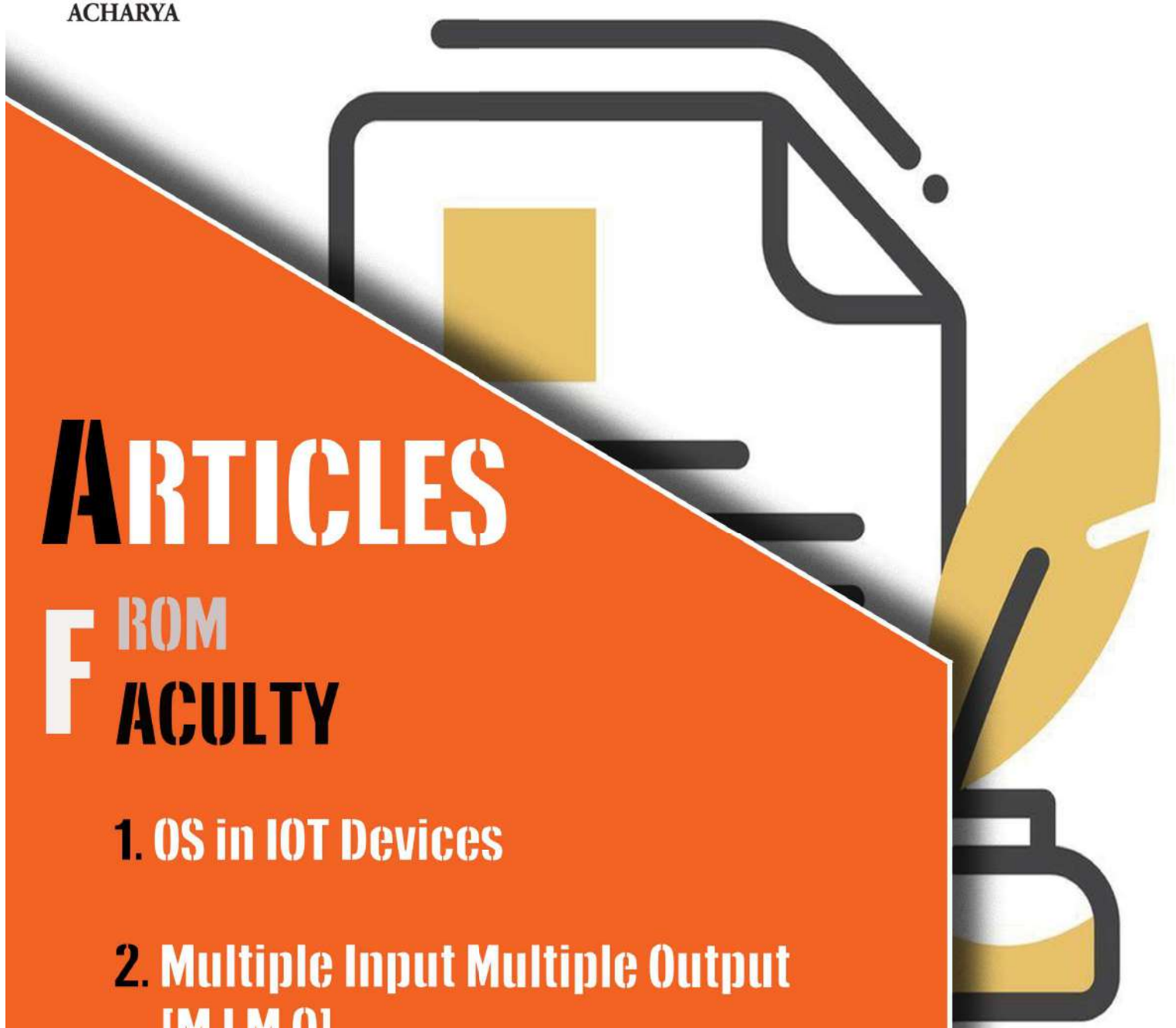
ACHARYA



ARTICLES FROM ACULTY

1. OS in IOT Devices
2. Multiple Input Multiple Output [M I M O]
3. Machine Learning Tools
4. Golden Ratio And Fibonacci Series:A Com prehensive Discussion

OS in IOT Devices

The use of operating systems(OS) for IoT(internet of things) hardware is often categorized into two groups: end devices and gateways. End devices or nodes are often Iot smaller in capability as compared to gateways. As more and more processing is pushed to the network edges (to gateways and nodes), traditional devices that used to run without an OS are embracing new OS implementations customized for IoT. The list of IoT operating systems are as shown in fig.1

Fig.1 Operating systems for IoT

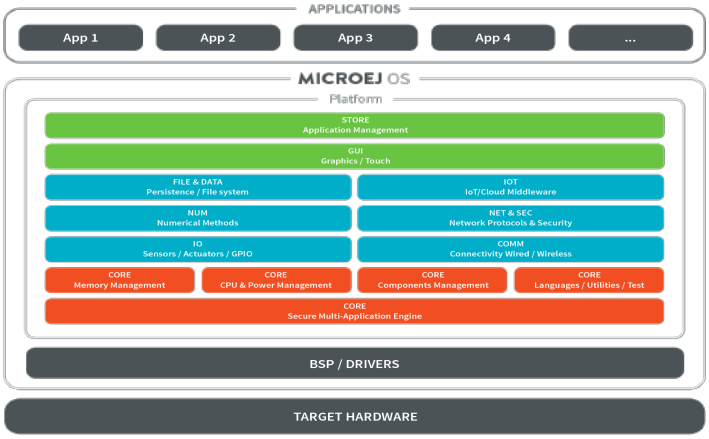
Discussion

1.Do IoT end devices require an OS in the first place?

While having an OS is not mandatory, devices are growing in complexity. This complexity is due nodes having more sensors, more data processing and increased connectivity to send that data out. Some devices have rich user interfaces that might include graphical displays, face recognition and voice recognition. End devices that were often based on 8-bit or 16-bit MCUs are moving to 32-bit architectures as costs drop and complexity increases. Addressing these changes without an OS is not only a challenge but also inefficient. The use of OS, particular an RTOS, simplifies the job of application programmers and system integrators because many of the low-level challenges are taken care of by the OS.

2.What parameters are important for selecting a suitable IoT OS?

The short answer is that there's no universal subset of important parameters. While there are many parameters for selection, some of them may be more important than others depending on the hardware type and application.



-Services provided by MicroEJ, shown here as an example. Source: MicroEJ 2017

3.What are the open source IOT os?

The following is a non-exhaustive list: TinyOS, RIOT, Contiki, Mantis OS, Nano RK, LiteOS, FreeRTOS, Apache Mynewt so on.

Some of these have come from academic institutions. TinyOS and Contiki are among the oldest. RIOT is more recent and has an active community of developers. FreeRTOS is among the popular ones. LiteOS is from Huawei. ARM mbed is single-threaded, event-driven and modular. It's has good connectivity and low footprint. In Zephyr OS the kernel is statically compiled, which makes it safe from compile time attacks. With Ubuntu Core, rather than having a monolithic build, kernel, OS and apps are expected be packaged and delivered as snaps. Android Things, previously named Brillo, is Google's offering. Yocto is not exactly an embedded Linux distribution. It's a platform to create a customized distribution for your particular application.

4.What are the closed or commercial IoT OS?

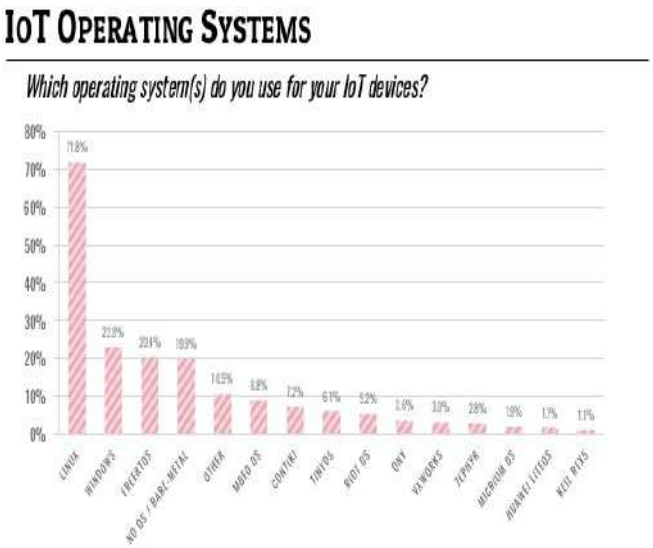
The following is a non-exhaustive list: Android Things, Windows 10 IoT, WindRiver VxWorks, Micrium µC/OS, Micro Digital SMX RTOS, MicroEJ OS, Express Logic ThreadX, TI RTOS, Freescale MQX, Mentor Graphics Nucleus RTOS, Green Hills Integrity, Particle.Windows 10 IoT comes in three flavours: IoT Enterprise, IoT Mobile Enterprise and Core. TI RTOS and Freescale MQX target the respective chipsets.

5.What are the popular IoT OS out there?

From the IoT Developer Survey 2018 conducted by Eclipse Foundation, it was found that 71.8% of the respondents like or use Linux-based OS. Within Linux, Raspbian takes the lead. Windows and FreeRTOS follow at 22.9% and 20.4%. However, the sample size in this survey was small.

It's interesting that 19.9% of developers prefer bare-metal programming. Bare-metal is a term that's used when no OS is used. Bare-metal is preferred for constrained devices.

It's a cheaper option but development and support costs may increase. If the device's processing, memory and power requirements can allow it, Embedded Linux is preferred. It will have a shorter time-to-market, better security, wider support base and well-tested connectivity solutions.



-Popular IoT operating systems in early 2018. Source: Brown 2018

6.Do IoT OS need to be real-time OS?

RTOS will be required where data has to be processed within time constraints, often without buffering delays. Where multiple threads are required that have to meet deadlines and share resources effectively, RTOS will be needed.

There will also be a class of devices that may not have strict real-time constraints. For some, a richer user interface may be more important. Some may buffer data and transmit them occasionally to save power. Such devices need not have an RTOS and may adopt a simpler OS. However, a survey from 2015 has shown that many designers who choose an OS mention real time as one of the top reasons.

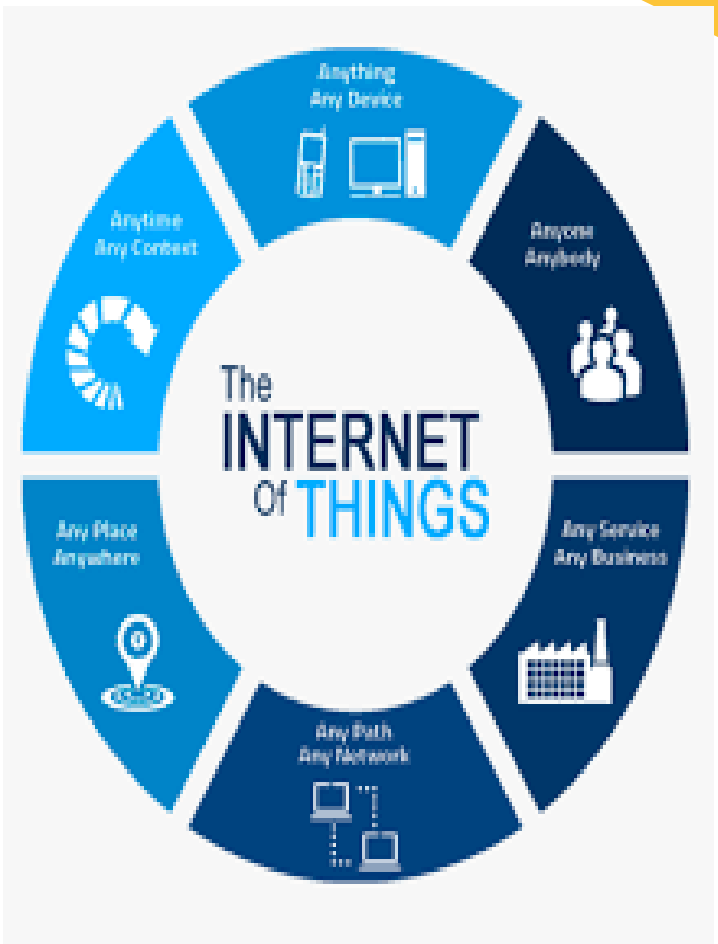
Designers may choose to use multiple processors where it makes sense. For example, an 8-bit MCU may be used to interface to sensors and actuators; a 32-bit processor will run the RTOS for connectivity and multithreading.

7.What design techniques are used by IOT OS?

	Contiki	RIOT	FreeRTOS	TinyOS	uClinux	Mbed
Architecture	monolithic	microkernel RTOS	microkernel RTOS	monolithic	monolithic	monolithic
Scheduler	cooperative	preemptive, tickless	preemptive, optional tickless	cooperative	preemptive	preemptive
Programming model	event-driven, protothreads	multi-threading	multi-threading	event-driven	multi-threading	Event driven, single-thread[2]
Targeted device class[1]	Class 0, 1	Class 1,2	Class 1,2	Class 0	>Class 2	Class 1,2
Supported MCU families or vendors	AVR®, MSP430™, ARM® Cortex-M®, PIC32, 6502	AVR®, MSP430™, ARM® Cortex-M®, x86	AVR®, MSP430™, ARM®, x86, 8052, Renesas	AVR®, MSP430™, px27ax	ARM7™, ARM® Cortex-M®	ARM® Cortex-M®
Programming languages	C	C, C++	C	nesC	C	C, C++
License	BSD	LGPLv2	modified GPL	BSD	GPLv2	Apache License 2.0

-Technical comparison of some IoT operating systems. Source: Arrow Electronics 2016, table 1

TinyOS and ARM mbed use a monolithic architecture while RIOT and FreeRTOS use a microkernel architecture. ARM mbed uses a single thread and adopts an event-driven programming model. Contiki uses protothreads. RIOT, FreeRTOS and µC/OS use a multithreading model. In static systems (TinyOS, Nano RK), all resources are allocated at compile time. Dynamic systems are more flexible but also more complex. File systems may not be required for the simplest sensor nodes but some OS support single level file systems. With respect to power optimization, this is done for the processor as well as its peripherals



-Mr.Viswanatha V
Assistant Professor

Multiple Input Multiple Output [MIMO]

What is MIMO?

MIMO is an acronym that stands for**M**ultiple Input**M**ultiple**O**utput. It is an antenna technology that is used both in transmission and receiver equipment for wireless radio communication. There can be various MIMO configurations. For example, a 2x2 MIMO configuration is 2 antennas to transmit signals (from the base station) and 2 antennas to receive signals (mobile terminal).

How does it work?

MIMO takes advantage of multipath propagation. Basically, it uses multiple antennas to send multiple parallel signals (from transmitter to receiver end). The word multipath arose due to different signal arrives at a receiver end at various times. This multipath propagation basically occurs in an urban environment where the signal bounce from buildings, vehicles, trees, etc; while reaching towards destinations. With MIMO, the less than desirable end utilizes a calculation or unique signal to figure out from different signs to deliver one signal that has the initially communicated information or the message to be delivered.

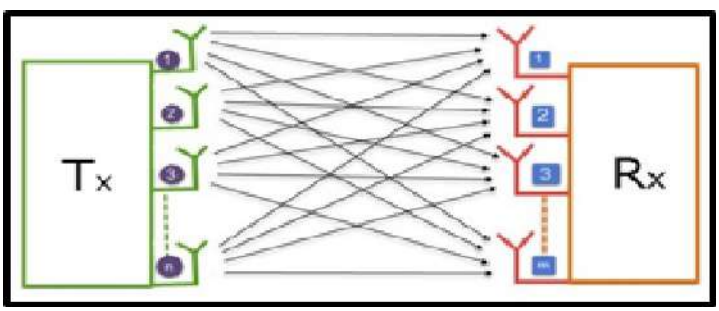


Fig 1: Structure of MIMO System (Source: everything RF)

Principle

1.Various information streams are sent in a single channel simultaneously.

2.Numerous radios gather multipath signals.

3.Conveys synchronous speed, inclusion, and unwavering quality upgrades with enhancement in the signal**.**

Need of Multiple Antenna

Radio communication is an electrically little paradigm that is evolving quickly. As of not long ago one radio was utilized in segregation and was typically associated with just a single receiving wire. The circumstance today is totally different: there is typically more than one radio utilized on the double for instance a the handset might have 4 cell groups, GPS and Bluetooth. In some cases, WLAN radios are moreover present. This implies that more RF separating of signs is vital. It is additionally becoming normal for each radio to utilize more than one receiving wire to make a variety or for MIMO applications.

A MIMO framework, by and large, uses multiple receiving wires, ordinarily four, and is a more remarkable procedure than variety exchanging for further developing interchanges connect. The strategy is incredible and can be worked on further by utilizing a bigger number of radio wires than those really utilized and then, at that point utilizing an ideal subset chose based on the nature of the channel.

Need of MIMO Integration

The space accessible for quite some time is no more noteworthy than that accessible previously for a solitary radio wire. Without a doubt, there is an extraordinary pressing factor for space inside handsets, and the space accessible for the radio wire is contracting constantly. Essentially with WLAN receiving wires -, for example, those fitted inside the tops of PCs the size necessities set on the radio wire (particularly the width) are ceaselessly being decreased.

At the point when different groups are utilized, there is a requirement for sifting to isolate the groups and further sifting is important to isolate the signs when more than one radio is utilized. Antenna receiving and diplexing are likewise generally fundamental. These parts are ordinarily gathered together into a FEM (Front End Module). FEMs present misfortunes and take up further land on the PCB.

802.11 Wireless Standards

IEEE Standard	802.11a	802.11b	802.11g	802.11n	802.11ac	802.11ax
Year Released	1999	1999	2003	2009	2014	2019
Frequency	5Ghz	2.4GHz	2.4GHz	2.4Ghz & 5GHz	2.4Ghz & 5GHz	2.4Ghz & 5GHz
Maximum Data Rate	54Mbps	11Mbps	54Mbps	600Mbps	1.3Gbps	10-12Gbps

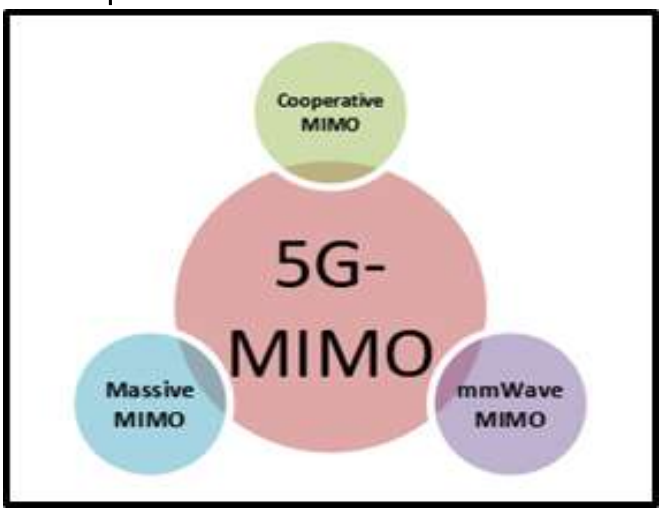
-Source: L-Com Infinite Brand

Multiple-Input Multiple-Output (MIMO) antennas have two or more antennas in a single physical package and are designed for use in IEEE 802.11n wireless networks. By utilizing multiple antennas, data throughput and range are increased compared to a single antenna using the same radio transmit power.

5G-MIMO

MIMO is one of the most talked-about technologies when it comes to creating the next generation of network standards.

But there are some questions as to what implementation should be used for 5G.



-Fig 2: Types of MIMO

1.**Cooperative MIMO**- Cooperation will be used in some form, more powerful with better infrastructure, need to be mindful of overheads in system design

2.**Massive MIMO**- Some potential for system rates, need large base station arrays, can be used with the cooperation

3.**mmWave MIMO**- Large potential for peak rates, more hardware challenges, requires more spectrum, more radical system design potential**.**

Projects can be Carried out on:

1.MIMO-OFDM Systems

2.Diversity and STBC Schemes

3.MIMO-SM Detection

4.Channel Capacity & Channel Estimation with Modelling

Feel free to discuss the same in order to carry out the project works toward 5G-MIMO

-Mr. Devasis Pradhan
Assistant Professor

Machine Learning Tools

In the most basic sense,data science is a multidisciplinary approach to unlocking value from data by applying statistical analysis, machine learning, artificial intelligence, and other advanced analytics techniques.

The five key steps to any data science project.

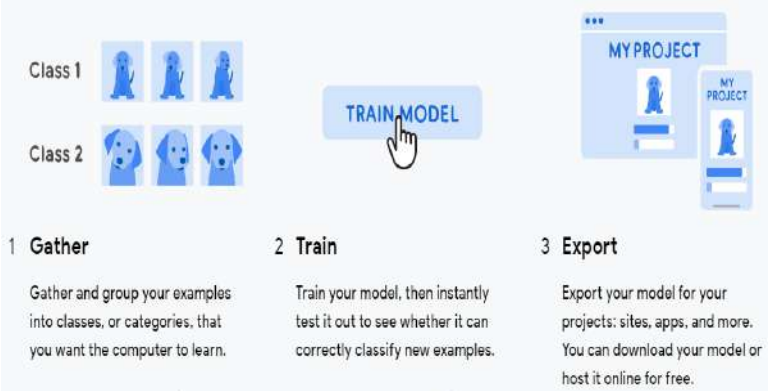
- Asking the right questions
- Getting the right data
- Cleaning the data
- Analysing the data
- Communicating the result

There are extensive collections of ML tools, platforms, and software. Moreover, ML technology is evolving continuously. Out of a pile of machine learning tools, you need to choose any of them to gain expertise. Some of the widely used machine learning tools are listed here

1.Teachable Machine

Teachable Machine is a web-based tool that makes creating machine learning models fast, easy, and accessible to everyone. Teachable Machine is flexible – use files or capture examples live. It's respectful of the way you work. You can even choose to use it entirely on-device, without any webcam or microphone data leaving your computer.

https://teachablemachine.withgoogle.com/



2.Anaconda Navigator

Anaconda Navigator is a desktop graphical user interface (GUI) included in Anaconda® distribution that allows you to launch applications and easily manage conda packages, environments, and channels without using command-line commands. Navigator can search for packages on Anaconda.org or in a local Anaconda Repository.

Download is available here

https://www.anaconda.com/products/individual-d

- JupyterLab
- Jupyter Notebook
- Spyder
- PyCharm
- VSCode
- Glueviz
- Orange 3 App
- RStudio
- Anaconda Prompt (Windows only)
- Anaconda PowerShell (Windows only)

- The following applications are available by default in Navigator:

3.KNIME

KNIME is an open-source machine learning tool that is based on Graphical User Interface which doesn't require any knowledge of programming.

KNIME is used for data manipulation, data mining, etc. which processes data by creating different various workflows and then execute them.

KNIME enables reproducible research through annotated workflows also offers an extensive toolset for data loading and transformation as well as statistical analysis.Download is available here

https://www.knime.com/downloads

4.Rapid Miner

RapidMiner is a data science software platform developed by the company of the same name that provides an integrated environment for data preparation, machine learning, deep learning, text mining, and predictive analytics.

It is used for business and commercial applications as well as for research, education, training, rapid prototyping, and application development and supports all steps of the machine learning process including data preparation, results visualization, model validation and optimization. RapidMiner is developed on an open core model.

With the help of this tool, one can use their own data as well as test their own models. Its interface is very user-friendly. You only drag and drop. This is the major reason why it is beneficial for non-programmers as well.

Download is available here

https://rapidminer.com/products/studio/

5.TensorFlow

TensorFlow is a free and open-source software library for machine learning and artificial intelligence. It can be used across a range of tasks but has a particular focus on training and inference of deep neural networks. It is a symbolic math library based on dataflow and differentiable programming. TensorFlow was developed by the GoogleBrain team for internal Googleuse

The most prominent feature of TensorFlow is, it runs on CPU and GPU as well. Natural language processing, Image classification are the ones who implement this tool.

Follow this link to download and install TensorFlow package.

https://www.tensorflow.org/install

So these are some of the most popular machine learning tools which are widely used and links are given to download and explore.

-Mr .Sandeep KumarK
Assistant Professor

-Mr .Siddesh M .B
Assistant Professor

Golden Ratio And Fibonacci Series:A Comprehensive Discussion

Have you ever written a program in C or C++ to generate a Fibonacci series? Have you ever wondered about what is this series? Is it only a sequence of numbers with some rule or it has any importance in our life?

Let us take a detailed look**.**

We have learnt that the series of numbers 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55 … is a Fibonacci series. In this series every number is a sum of previous two numbers except first two numbers. Means 0 is the first number and 1 s the second number. The third number is the sum of 0 and 1. The fourth number is the sum of 3rd and 2nd number i.e., 1+1 = 2, and the fifth number is the sum of 4th and 3rd number i.e., 1 + 2 = 3 and so on**.**

Let us take the ratio ri of the ith number to (i-1)th number expect for first two numbers for easy understanding, that is

$$r_i = \frac{n_i}{n_{i-1}}$$

Numbers in series	ri
0	
1	
1	1/1 = 1
2	2/1 = 2
3	3/2 = 1.5
5	5/3 = 1.66667
8	8/5 = 1.6
13	13/8 = 1.625
21	21/13 = 1.61538
34	34/21 = 1.61904
55	55/34 = 1.61764
89	89/55 = 1.618181
144	144/89 = 1.61798
233	233/144 = 1.6180555
377	377/233 = 1.618025
	and so on

If you observe the ratio ri it is remaining almost constant at 1.6180 (considering only first four decimal digits).

This ratio is called Golden Ratio. An approximation to this is obtained by the positive solution of the quadratic equation x^2-x+1=0 which comes to (1+√5)/2 = 1.6180339.

To put this in simple analogy, if a line segment is cut into two pieces of different lengths such that the ratio of the whole segment to that of the longer segment is equal to the ratio of the longer segment to the shorter segment.

That is, assume x is the length of a line segment. Let us cut it into two unequal parts xs and xl which are shorter and longer length segments respectively. By making the two parts such that the ratio

$$\frac{x}{x_l} = \frac{x_l}{x_s}$$

If the length of the smaller part is one unit, then

$$\frac{x}{x_l} = \frac{x_l}{1}$$

By substituting $x = x_l + x_s = x_l + 1$ which implies $x_l = x + 1$ we can write the ratio as $(x+1)/x = x/1$

Simplifying, we can get x^2-x+1=0, solution of which (1+√5)/2 approximates to the Golden Ratio

The ancient Greeks recognized this “dividing” or “sectioning” property, a phrase that was ultimately shortened to simply “the section.” It was more than 2,000 years later that both “ratio” and “section” were designated as “golden” by German mathematician Martin Ohm in 1835.

So what is the importance of this ratio? Let’s wait for the next episode.

-Mr.Siddesh M.B
Assistant Professor

-Mr.Sandeep Kumar K
Assistant Professor

YOUTH CENTRAL

CONTENT

Photography ,drawing/painting.

Short story.

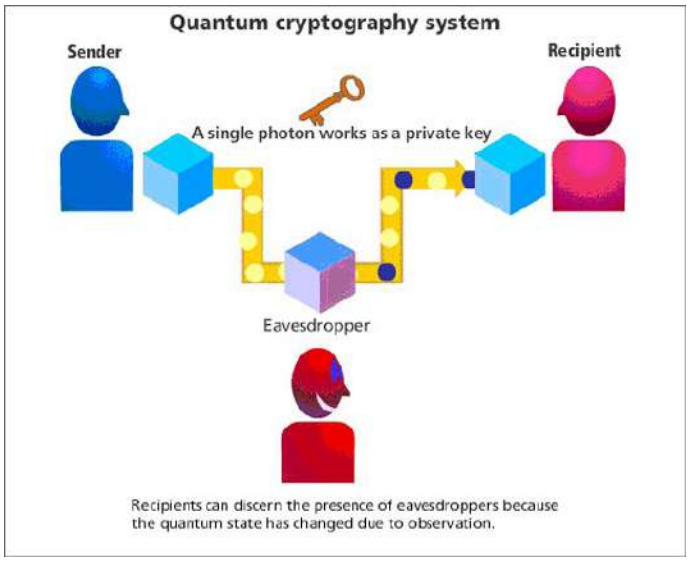
Quiz/riddles.

QUANTUM CRYPTOGRAPHY

Quantum cryptography which is also called quantum encryption, applies the principles of quantum mechanics to encrypt messages in a way that can never be read by anyone other than the intended recipient. It takes advantage of quantum's multiple states, coupled with its "no change theory," which means it cannot be unknowingly interrupted. Performing this task requires a quantum computer, with immense computing power to encrypt and decrypt data. Companies and governments around the world are in the race to build the first usable quantum computer since the technology promises to make some kinds of computing problems much easier to solve than with today's classical computers.

One of those problems is breaking certain types of encryptions, particularly the methods used in today's public key infrastructure (PKI), which underlies practically all of today's online communications. Instead of solving one problem at a time, with quantum computing we can solve thousands of problems at the same processing speed, with the same processing power. Things that would take hundreds of days today could take just hours on a quantum computer.

Here's how encryption works on "traditional" computers: Binary digits (0s and 1s) are systematically sent from one place to another and then



deciphered with a symmetric (private) or asymmetric (public) key. Symmetric key ciphers like Advanced Encryption Standard (AES) use the same key for encrypting a message or file, while asymmetric ciphers like RSA use two linked keys — private and public. The public key is shared, but the private key is kept secret to decrypt the information.

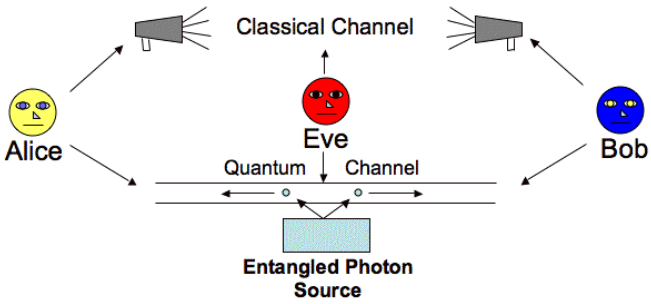
The first target of encryption-breaking quantum computers will be the weakest link in the encryption ecosystem: asymmetric encryption. This is PKI, the RSA encryption standard. Emails, websites, financial transactions and pretty much everything is protected with asymmetric encryption. The reason it's popular is that anyone can encrypt a message by using the intended recipient's public key, but only the recipient can decrypt it using the matching private key. The two-key approach relies on the principle that some kinds of mathematical processes are much easier to do than to undo. You can crack an egg, but putting it back together is a lot harder. With symmetric

encryption, messages are encrypted and decrypted using the same key. That makes symmetric encryption less suitable for public communication but significantly harder to break. Quantum computers are unlikely to crack symmetric methods (AES, 3DES, etc.) but are likely to crack public methods, such as ECC and RSA.

Longer keys are the first line of defence against quantum encryption, and pretty much everybody is on board with that. In fact, the 1024-bit version of the RSA encryption standard is no longer regarded as safe by NIST, which recommends 2048 bits as a minimum. Longer keys make encryption slower and more costly, however, and the key length will have to increase substantially to stay ahead of quantum computers.

Another option is to use symmetric encryption for the messages themselves, then use asymmetric encryption just for the keys. This is the idea behind the Transport Layer Security (TLS) online standard.

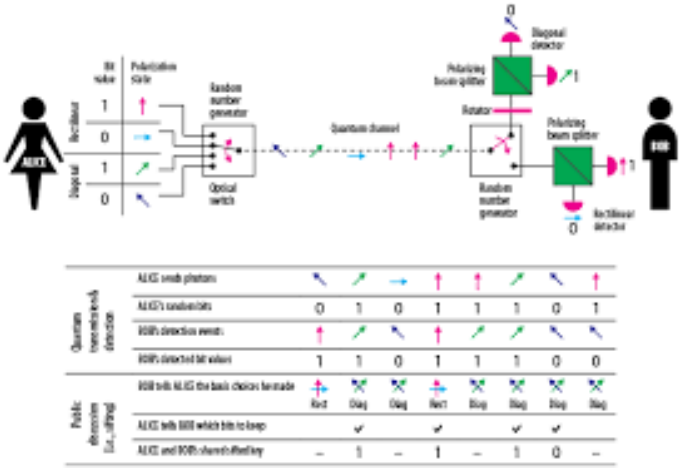
Many researchers are also looking at ways to create new kinds of encryption algorithms that would still allow public and private keys but be proof against quantum computers.



For example, it's easy to multiply two prime numbers together but very difficult to break a large number back up into its prime factors. Quantum computers can do it, and there are already known quantum techniques that could solve the factoring problem and many similar approaches.

Having said all these, there are few limitations of Quantum Key Distribution (QKD). Most hackers, when they break into things, they hardly go head-on. They go around the side, and that's where we find problems with these implementations. Today's attackers, while they could, in theory, listen in to traffic over fibre-optic lines, typically don't do that. There are far easier ways to read the messages, such as getting to the messages before they are encrypted or after they are decrypted or using man-in-the-middle attacks.

Also, QKD requires the use of relays. Unless the sender and the recipient build a pipe that goes directly between their two offices, and the distance is short enough that the messages don't degrade — about 60 miles or less with current technology — there will be plenty of opportunities for hackers. QKD networks will need repeaters when messages travel long distances.



In addition, QKD networks will need to be able to route messages, and that means routers and hubs, each of which is also a potential point of vulnerability. The need for unbreakable encryption is staring us in the face. With the development of quantum computers looming on the horizon, the integrity of encrypted data is at risk now. Fortunately, quantum cryptography, through QKD, offers the solution we need to safeguard our information well into the future – all based on the complex principles of quantum mechanics.

- Janani B
8th Sem

" If a message protected by quantum cryptography were ever to be deciphered, it would mean that quantum theory is flawed "

-Simon Singh

Info

- Quantum cryptography is the science of exploiting quantum mechanical properties to perform cryptographic tasks. The best known example of quantum cryptography is quantum key distribution which offers an information-theoretically secure solution to the key exchange problem.

GLIMSE OF AICTE ACTIVITIES

-Coordinators of AICTE activity
Mrs. Mamatha S V
Ms. Nagapushpa

PUBLIC AWARENESS UNDER RURAL OUTREACH PROGRAM

The main objective of this activity is to assess the quality of life in the small village named Hampayyanamalige of Chitradurga district. As a part of our AICTE activity we the students from Acharya Institutes namely Pavan P ,Prajwal T S, Rajath B T, Suhas T M, Vaibhav K R and Srujan S initiated the Rural outreach program in this village from 24/03/2021 to 05/04/2021.

This activity includes various programs like Public health and Sanitization , Awareness of power savings (usage of chargeable bulbs), Waste disposal and management, Different Farming methos , Modern agricultural Tools, Digital payments , Irrigation methods and Village temple improvement. As a outcome of this activity the people of this village got an brief idea about the digital technology and also we learnt many new things from them too. It was a really wonderful 10 days of experience and also the people in this village supported us a lot to complete this program successfully. This kind of activities help us to improve our skills apart from the academics.

In many aspects the people of villages feel that they really lacking with the knowledge, trends and technologies when compare to the people in Town. But in reality their lifestyle better than everyone else and we being educated its our duty to improve their knowledge in the fields where their lack. This kind of activities Improve our social and Communication skills. We would really Thank our university for keeping this wonderful activity as part of academics.

Supporting Local Schools To Achieve Good Result AndEncourage Them For Enrolment In Higher Studies

The main aim of this activity is to create awareness about the importance of education among the rural students in the rural places. As a part of the AICTE activity we students formed a team of 8 namely Sindhu S, Sindhu G Doddamane, Nayanakatti,Mundala Maneesha Reddy,Pooja M, Sindhushree R, Syed kashif Ali R , and Giridhar S have initiated this program for 10 days in a village named Sankodanahalli, Hassan district.

Our activity is the educate the children about the importance of education after school and the various streams they can explore. Every day each members of our team explained various topics such as what are the different areas children can pursue their education in, which are scholarships that are available. We communicated with the children about their dreams and guided them regarding the same. We also guided them how to explore their hidden talents in fields such as sports, art and so on. We also did some practical science experiments which amazed them. By the end the children had a brief knowledge about their future.

It was an amazing experience for our team to spend time with the children teaching them. Since the children in rural areas lack in technology, they tend to know very little about the opportunities they have. It is our duty to educate them through these activities.

Supporting Local Schools To Achieve Good Results And Enhance Their Enrolment In Higher /Technical/Vocational Education

The main objective of this activity is helping local schools to achieve good results and enhance their enrollment in higher education. For this activity we selected the school named KUVEMPU SHATAMANOSVATA MADARI GOVT SCHOOL, Kinnal , Koppal district .

As a part of our AICTE activity we the students from Acharya Institutes namely Sushma, Usharani , Gandikota Jyoshna initiated this program to help the school students in this rural area to achieve good results and enhance their enrollment in higher and technical education. We carried out this activity from 22/03/2021 to 05/04/2021.

During this program we educated the studentsonusingtheBasicElectricalcomponents such as Registers, LED's, Breadboards, Battery, Switches, Capacitors etc. We selected some of the topics from their syllabus in Science and experimented those experiments manually from their hands and the applications of these experiments in daily life. Students got to know the usage and working of these electrical components . At last we conducted an exhibition in which the students had done the models and experiments based on what we taught them.

Students of government schools in rural area are lagging behind the practical knowledge and technical skills then compared to private schools . As a outcome of this program the students came to know their potential and enhanced their practical skills. This program presented new emperical way to the students to achieve their technical skills.

It was really a remarkable experience of 15 days. The Headmaster and staff supported us to teach these students and make this program successful. This activity helped us to improve our skills apart from the academics.

During this activity we have experienced a lot of emotions and gathered a lot of moments we will always remember. We have met the little beautiful people who reminded us of the happiness that brought us back to childhood when there was no concern—just the desire for life, love, play and laughter. That is why we realised how important it is to provide these children with the opportunity for education, to expand their horizons, to acquire new knowledge and skills and to move away from their poor communities. These children who do not seek much, deserve everything! These children deserve both love and attention and care and knowledge and support and friendship and opportunities for progress and development.. We would really thank our university for keeping this activity as a part of our course.

AICTE activity points

- The objectives of AICTE student activity is to expose students to the real time life challenges, to provide opportunity to gather data, analyses data, propose solutions and implement solutions, provide an opportunity for personal development, to create engineers who are proud volunteers having a sense of achievement and ready to take up projects having social impact and to create digital awareness.

"Education is the most powerful weapon which you can use to change the world"

– Nelson Mandela

PHOTOGRAPHY

Taking an image ,freezing a moment,reveals how rich reality truly is

-Anwaydeep Nath| 7th Sem

-Anwaydeep Nath| 7th Sem

-Syed kashif ALI.R | 7th Sem

-Anwaydeep Nath| 7th Sem

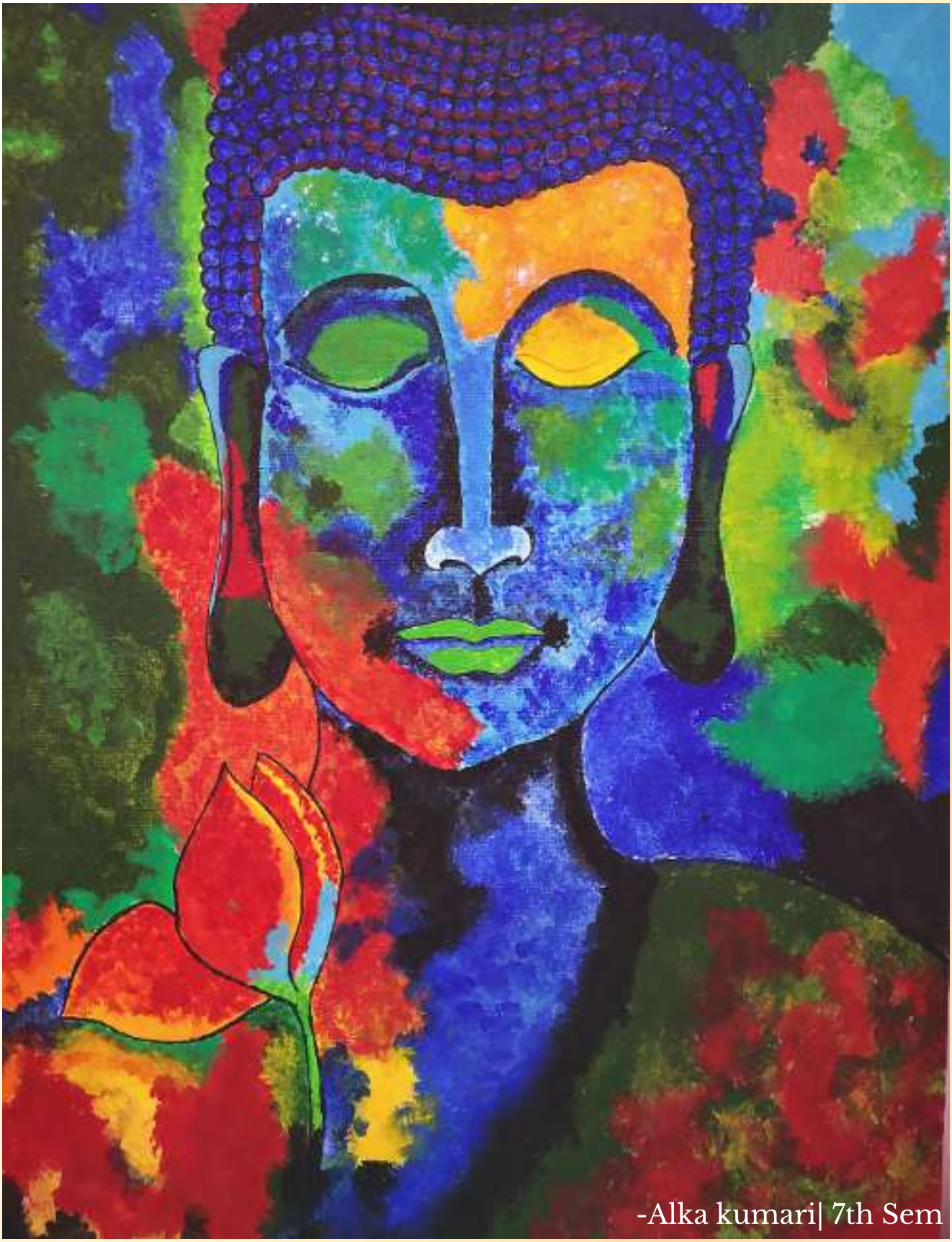
-Suhas T M| 7th Sem

-Suhas T M| 7th Sem

-Syed kashif ALI.R | 7th Sem

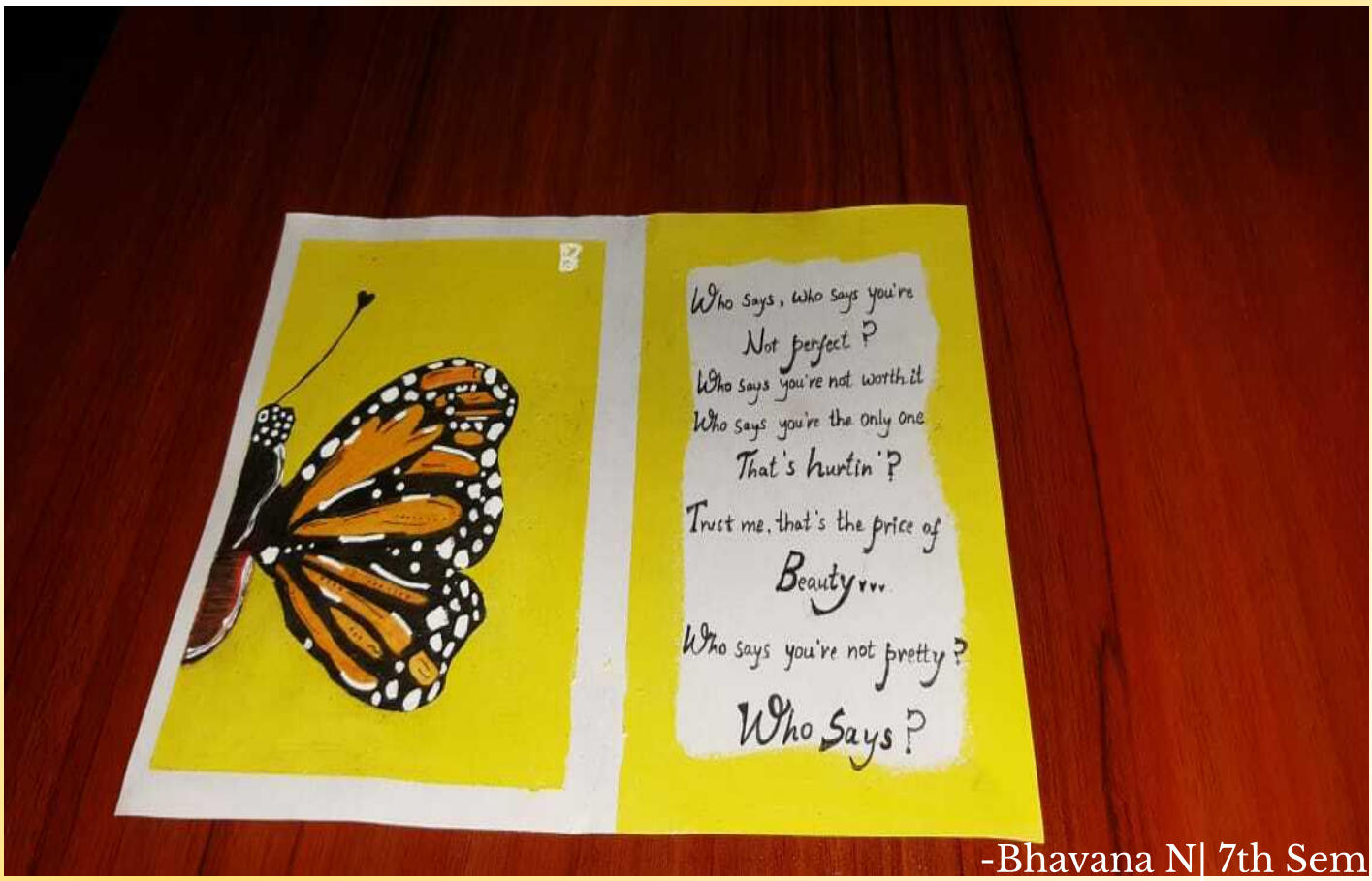
Art Lab

sketch|Paintings|Drawing



"Some painters transform the sun into a yellow spot, others transform a yellow spot into the sun."

-Ashmitha.G| 5th Sem



-Bhavana N| 7th Sem

Selfless Soul

He was born...

He was a glare in her unlit life.

He was a glee in her depressed life.

He was a prosper in her crash life.

He was a hope in her hopeless life.

She forgo her sleep for his aspiration.

She let go her need for his yearning.

She let slip her misery in his pleasure.

She fulfills her entity by his identity.

MOTHER!!

She is a walking miracle.

She is a selfless soul

-**POOJA M**

7th Sem

Short Story: Anger

As we know 5th September is celebrated as Teachers Day to commemorate the birth anniversary of Dr. Sarvepalli Radhakrishnan who was a renowned scholar, recipient of Bharat Ratna, first Vice- President, and second President of independent India.

I want to share a short story heard from my father who was a retired headmaster when I was in the sixth standard which triggered me a lot toward the importance of GURU or TEACHER in my life.

There was a village where Raghu lives with his family: Father was a farmer, Mother was a housewife, and a little sister name Saraswati.

Raghu was a bright student and eager to learn. Once he met a Guru from an Ashram near to the village and want to be his disciple. Guru Ji accepted him as a disciple and identify that Raghu used to get angry about small things.

Guru Ji decided to make Raghu, control his ANGER which hampers him a lot while taking correct decisions in life as he is a bright student. So, Guru Ji asked Raghu to chant God's name during all your activities for one month, then take a bath and come back to me.

Raghu followed the instructions given by Guru Ji before visiting Ashram. After a month he is on the way to meet Guru Ji and met with an incident. The incident was: A washerman cleaning clothes and carelessly throw the dirty water on him.

Raghu got angry and scolded him: “What have you done to me? Now I have to go backwash and dry these clothes and bath again! Such a waste of time!”

Guru Ji observed the situation and when Raghu reach the ashram. He told to Raghu: redo the process and visit after a month, presently you are not prepared to take the things which I want to impart.

The process was: Chant God's name during all your activities for another month, take a bath at the end of it, and come to see me.

After a month Raghu went to the ashram as per Guru Ji’s instruction and the same thing was repeated. Raghu once again got angry and scolded the washerman nicely. Raghu took a proper bath before he met his Guru Ji.

Guru Ji asked him to redo the process once again for one month. One month passed and this time the same incident happened when Raghu went to meet his Guru. However, this time Raghu addressed the washerman softly saying "Thank you. You are my master. You have helped me to overcome my Anger." Washerman felt bad for his action. Without taking bath he recached Ashram where Guru Ji was standing to well come him and asked him that now he is ready to teach him.

Moral of the story :

Faith: A student must have faith in his/her teacher and follow with devotion.

Solution: A Teacher knew what a student is lacking and suggests him/her the best solution.

-Mr. Devasis Pradhan

Assistant Professor, Department of ECE

AIT Bangalore- 560107

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गुरु ब्रम्हा गुरु विष्णू । गुरुः देवो महेश्वरा । गुरु शाक्षात परब्रम्हा । तस्मै श्री गुरुवे नमः ॥

****

Though we have entered into our new millennium, but our culture remains unforgotten. When we converse a lot about the culture, how we can forget the Guru, who has given this ancient knowledge, which he himself has got and preserved from his Gurus tradition. Here we can say that the Guru is the core of all the education, arts, culture and knowledge present in the world. Everywhere in the history of India if you read you will find that each and every person had a Guru which made him improve.

The relationship between a Guru and his Shishya is the most celebrated in Hindu culture. In the Guru Shishya tradition, a student approaches a Guru in his chosen area of expertise, and requests to be granted admission, also known as “Shishyvruthi”. Once Guru accepts the Shishya, he will go through a formal initiation ceremony, where the Guru accepts the Shishya and takes the responsibility of his spiritual well being and progress in life known as “Gandabandhan” The Guru Shishya tradition started fading away in the Indian culture with the advent of British rule. The British introduced western education system to India, where the system was given more importance than the Guru or teacher who is imparting knowledge. But now a days the western people follows our tradition and culture so why should we loose the tradition and culture, we should preserve it and it must be transferred to our next generation .

****

गुरु बिन ज्ञान न ऊपजे, गुरु बिन मिले न मोक्ष |

गुरु बिन लिखे न सत्य को, गुरु बिन मिटे न दोष ||

****

-Mr.Devasis Pradhan

Assistant Professor

Quiz

1. If a transmission line with characteristic impedance Z1 is connected to a transmission line with characteristic impedance Z2. If the system is being driven by a generator connected to the first line, then the overall transmission coefficient will be

» 2 Z1/(Z1+ Z2)
» Z1/(Z1+ Z2)
» 2 Z2/(Z1+ Z2)
» Z2/(Z1+ Z2)

2.The output of a JK flipflop with asynchronous preset and clear inputs is '1'. The output can be changed to '0' with one of the following conditions

» By applying J = 0, K = 0 and using a clock
» By applying J = 1, K = 0 and using the clock
» By applying J = 1, K = 1 and using the clock
» By applying a synchronous preset input

3. Which of the following is the conversion time of a dual-slope ADC

» 5 to 10 ns
» 10 to 100 ns
» 100 to 200 ns
» 2 to 3 ns

4. Schottky TTL gates have propagation delay time of the order of

» 6ns
» 7ns
» 2ns
» 1ns

5. For a counter-type ADC, if the conversion time is around 4.1 ms then the minimum number of conversions that could be carried out each second would be approximately

» 150 per second
» 244 per second
» 209 per second
» 255 per second

6. For the below circuit , Input resistance Rid will be

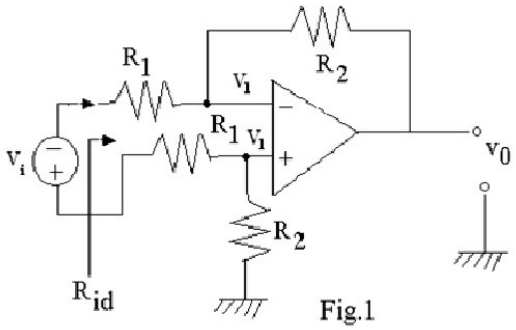
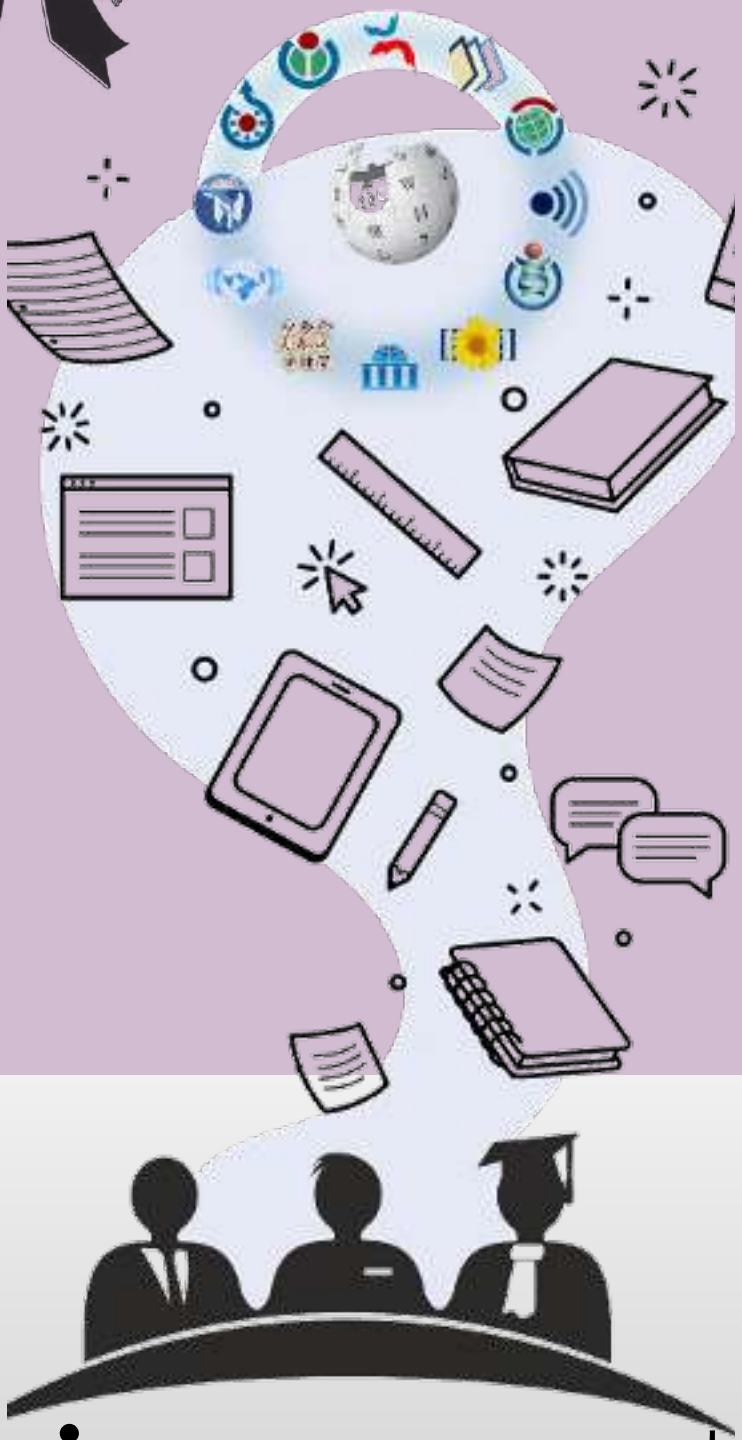


Fig.1

» 2R1
» 2 R1+ R2
» 2 (R1+ R2)
» Infinity

Scan the QR code
To answer Echoview - 2021



Achievements

Awards|Journal|Publications|Courses|Webinars

FACULTY ACHIVEMENTS

NAME	ROLE	NAME OF FDP/STTP/ PROGRAMS	ORGANIZER/ INSTITUTION	DATE
DR.RAJESWARI PROF. SANDEEP KUMAR K PROF.PRANITA NIRAJ PALSAPURE	Resource Person	FDP The under AICTE ATAL Academy Program on " Drug saftey monitoring and transition of care : The Brink of an Artificial Intelligence (AI)"	Organized by Raghavendra Institute of Pharmaceutical Education and Research (RIPER)	27 July to 31 July
PROF. SUMALATHA S	Resource Person	AICTE sponsored one week online STTP (Phase-II) on "Mixed Signal Design with Machine Learning Applications	VVIT Bangalore	30th November to 05th December 2020.
DR. SUJATHA B M	KSCST Project - Guide	Final Year Student-KSCST Project-2021	VTU	March 2021

PROF. DEVASIS PRADHAN

National Distinguished Author -2021

International Institute of organized Research (I2OR) which is a registered MSME with the Ministry of Micro, Small and Medium Enterprises, Government of India

PhD Completion : Dr. Vishwanatha V

Dr. Viswanatha V currently working as Assistant Professor in the department of ECE, Acharya Institute of Technology, Bangalore. He has been awarded the PhD degree with Thesis titled "DSP Based Smart Controller Design for Bidirectional Buck-Boost Converter", in Electronics and Communication Engineering from VTU Belgaum, in the month of April 2021. In this research Embedded system control design has been carried out for the control of DC-DC converters. This design enables the implementation of cyber (control, communication and computation) layer which in turn enables the implementation of energy internet, IoTs/IoEs, smart energy routing, cyber security, e-grid and sustainability. It basically presents the DSP based digital control of Bidirectional Buck-boost converter. DSP control is preferred since it enables the implementation of complex control algorithms on embedded platforms. The Bidirectional DC-DC converter plays important in the applications like automotive systems, renewable energy systems, electric vehicles, DC micro-grids, and UPS systems and so forth. It benefits the applications with reliability, stability, low cost, improvement of efficiency and performance. All these features are connected to applications due to the usage of energy storage system with bidirectional DC-DC converter. There are thus increasing research efforts made on their topology, mathematical modeling, control design and reliability.

His current research interests include Embedded Systems with IoT. On the research, he has published six peer-reviewed journals including Elsevier and Springer publications and it has got 45 citations as of now .Also published one springer book chapter and one Indian patent.

Journal Publication / International & National Conference Details -2020-21

1.

Pradhan, D. and R, R. (2020). 5-G Green Wireless Network for communication with efficient utilization of power and cognitiveness. In: J.S. Raj, ed., International Conference on Mobile Computing and sustainable information (ICMCSI) 2020- Springer Proceedings. [online] Switzerland: Springer Nature, pp.325–336. Available at: https://link.springer.com/chapter/10.1007%2F978-3-030-49795-8_32.

2.

Pradhan, D., (2020). 'Comparative Analysis between energy detection method & matched fi lter detection for spectrum sensing in intelligent network intended toward 3G/4G/ Vol-Te', International conference on computing, communication, and control-2020. SAIRAM Engineering College, Chennai, 02-2020. Chennai: IC4-2020 IFERP.

3.

C Y, Kalpavi. and C S, Veena., (2020). 'Performance Analysis of LEACH Protocol for Cluster-Based Hierarchical Routing Protocol in WSN Design', International Web Conference on "Recent Trends and Developments in Applied Research and Industrial Practices", (ICRTDARIP–2020). Amity University, Kolkata, 20th and 21st November. 2020,. Chennai: ICRTDAR-IP -2020 IFERP. ISBN: 978-93-90214-13-6

4.

Pradhan, D. and Dash, A., (2020). 'An Overview Of Beam Forming Techniques Toward The High Data Rate Accessible For 5G Network', International Conference on Science, Engineering & Technology -2020. Rome, Italy, 25 - 26 October 2020. Rome, Italy: Proceedings of Researchfora International Conference, Rome, Italy, 25th – 26th October, 2020, ISBN: 978-93-90150-21-2.

5.

Pradhan, D., (2021). 'Comparative Analysis of BER and PAPR for OFDM, OFDM–CDMA, OFDM-Mc-CDMA & OFDM–IDMA Systems', International Academic Conference on Engineering, Technology and Innovations -2021. Jeddah, Saudi Arabia, 14th – 15th June 2021. Jeddah, Saudi Arabia: Proceedings of Academics World International Conference, Jeddah, Saudi Arabia, 14th – 15th June 2021.ISBN: 978-93-90150-26-7.

6.

Pradhan, D., (2021). 'Comparative Analysis of BER and PAPR for OFDM, OFDM–CDMA, OFDM-Mc-CDMA & OFDM–IDMA Systems', International Academic Conference on Engineering, Technology and Innovations -2021. Jeddah, Saudi Arabia, 14th – 15th June 2021. Jeddah, Saudi Arabia: Proceedings of Academics World International Conference, Jeddah, Saudi Arabia, 14th – 15th June 2021, .ISBN: 978-93-90150-26-7.

7. 

Pradhan, D., Sahu, P., Dash, A. and Tun, H., (2021). 'Sustainability of 5G Green Network toward D2D Communication with RF- Energy Techniques', IEEE International Conference on Intelligent Technologies (CONIT 2021). IEEE Conference, KLE Hubbli, Karnataka, 28th June 2021. IEEE Bangalore Section: IEEE Bangalore Section, doi.org/10.1109/CONIT51480.2021.9498298.

8.   

Book Chapter ---Pradhan, D., R, Rajeswari., & K C, Priyanka. (2021). GREEN-Cloud Computing (G-CC) Data Center and its Architecture toward Efficient Usage of Energy. In Future Trends in 5G and 6G Challenges, Architecture, and Applications.. CRC Press - Taylor & Francis Group. ISBN 9781032006826

9.   

Book Chapter ---Pradhan, D., R, Rajeswari., & K C, Priyanka. (2021). SDR Network & Network Function Virtualization for 5G Green Communication (5G-GC). In Future Trends in 5G and 7G Challenges, Architecture, and Applications.. CRC Press - Taylor & Francis Group. ISBN 9781032006826

10.

N P, Pranita., (2021). 'Radiographic Examination using Deep Learning', 2nd International Conference onEmerging Trends in Science, Engineering and Management - 2021. GMIT Davangere, Karnataka, India, 15th-16th July 2021. Coimbatore, Chennai: IFERP.

11.

C N, Asha., (2021). 'Magnetic Coupling Resonant Wireless Power Transmission', National Conference on Advanced & Recent Trends in Electronics & Communication [NCAREC-21]. SKIT. Karnataka, India, 20th July 2021. Bangalore, India: SKIT, IETE.

12.

Pradhan, D., Sahu, P., R, R. and Tun, H., (2021). 'A Study of Localization in 5G Green Network (5GGN) for Futuristic Cellular Communication', Springer Conference -3rd International Conference on Communication, Devices and Computing - ICCDC-2021 (16th -18th August 2021). Haldia Institute of Technology, Haldia, West Bengal, India, 16th -18th August 2021. Switzerland: Springer Nature.

13.

Jeevith.S.H, Lakshmikanth.S, "Detection And Tracking Of Moving Object Using Modified Background Subtraction and Kalman Filter" International Journal of Electrical and Computer Engineering (IJECE)Vol.11, No.1, February2021, ISSN: 2088-8708.

Acharya Institute of Technology

Acharya Dr. Sarvepalli Radhakrishnan Road, Bangalore-560 107

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Awards and Recognition of Students in Sports for the academic Year 2020-21.

SL NO	STUDENTS NAME	SPORTS	UNIVERSITIES/ORGANIZATIONS/ INSTITUTIONS	LINKS
1.	Chandu P (Sem:8)	Softball	Participated in 42nd senior National softball champion ship women's , held at Lahogarh stadium Bharatpur, Rajasthan dated 20th to 24th of March 2021	**https://drive.google.com/file/d/1x6hwzjoJd2blJsi2PhR281X_Uo5Ht8xm/view?usp=sharing**
2.	HB Sanjay (Sem:4)	Netball	Secured third place in Netball Interzone tournament held at Global Acdemy of Technology 2019-2020	**https://drive.google.com/file/d/1ivhAkefVz8p5jaViMlQ3_jIo53RN9VXW/view?usp=drivesdk**

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Awards and Recognition of Students in Internship/Paper pulishment/Project for the academic Year 2020-21.

SL NO	STUDENTS NAME	INTERNSHIPS/PAPER PUBLISHMENTS/ PROJECTS	UNIVERSITIES/ORGANIZATIONS/ INSTITUTIONS	LINKS
1.	Naveen Kumar K (Sem:8)	Internship in AI and Deep Learning from November 2020 to June2021	Sandlogic Technologies Pvt.Ltd	**https://drive.google.com/file/d/1FnJwIn1c5e43U0cRTZ1rcS3KM0N4hELR/view?usp=sharing**

2.	Kalukhe Siddhesh Vikas Susmita Kailas (Sem:8)	A Comprehensive study on Firewall for Iot devices ,policies and Security services paper held on 12/15/2020 and 12/16/2020	Best content at the Researchfora International conference held in Chengdu, China	**https://drive.google.com/file/d/1zQW_th3amCIZCkenmDE9n9A_OiXBlQNM/view?usp=drivesdk**
3.	Deepak S Karthik RS Manish B R Abhishek (Sem:8)	Radiographic Examination using deep learning paper held on 07/15/2021 and 07/16/2021	Best research paper in ICETSEM-2021 organised by Dept. of ECE GM Institute of Technology, Davangere, Karnataka, India	**https://drive.google.com/file/d/1cqHh01qUiEgxmk7J1x9mB2esCcxvLPRi/view?usp=sharing**
4.	Himanshu Kumar Sinha Anand Kumar Kumari Priyanka Mujeeb Ahmed Nachappa P (Sem:4)	Successfully represented the Team TRINETRA at the Innovative Futuristic Product Prototype International Challenge from 10/12/2020 to01/12/2021	IIC SMIT in association with AIC-SMUTBI	**https://drive.google.com/file/d/1f8-FXJAENKo_X2tjjTHysUIvk2uWVPdT/view?usp=drivesdk**

Acharya Institute of Technology

Acharya Dr. Sarvepalli Radhakrishnan Road, Bangalore-560 107

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Awards and Recognition of Students in Courses/Worshops/Webinars for the academic year 2020-21.

SL NO	STUDENTS NAME	COURSES/WORKSHOPS/ WEBINARS	UNIVERSITIES/ORGANIZATIONS/ INSTITUTIONS	LINKS
1	Janani B (Sem:8)	Two-week online course on Patents from 04/19/2021 to 05/13/2021.	Turnip Innovation Pvt.Ltd	**https://drive.google.com/file/d/1nlxTWwf2hZUxODEKipBzJCA7lKohujZy/view?usp=sharing**
2.	Syed Abdul Gaffar Shakhadri (Sem:8)	Segmind Grand AI Challenge held on 05/21/2021	Dockship.io	**https://drive.google.com/file/d/1Y0kGRC83EwMc8nU5323J9UvaSN8mjQnz/view?usp=sharing**
3.	Sahana KV (Sem:8)	Leadership course from NPTEL, Internship at “515	Govt of India, Ministry of Defence (AN ISO 9001-2015	**https://drive.google.com/file/d/1iy8jCPNkDQdO6ie1Ud3pvNKmXJJ7J4St/vie**

		ARMY BASE WORKSHOP from 03/15/2021 to 04/14/2021.	organisation),Bengaluru.	**w?usp= drivesdk**
4.	Pruthviraj Patil (Sem:8)	Business Metrics for Data-Driven Companies New Models of Business in Society The Art of Negotiation Leadership and Emotional Intelligence Market Research and Consumer Behavior Understanding Financial Markets Introduction to Psychology Initiating and Planning Projects High-Impact Business Writing Strategic planning Cybersecurity Roles, Processes & Operating System Security The Science of Success: What Researchers Know that You Should Know	Duke University University of Virginia University of California, Irvine Indian School of Business IE Business School University of Geneva Yale University University of California, Irvine University of California, Irvine HP LIFE eLearning IBM University of Michigan	**https://drive.google.com/file/d/1hQJqx41wdZaG4tOtgeNf87KxyP53UmUr/view?usp=drivesdk**
5.	Nikhil Kumar Singh (Sem:6)	Wireless Communication:5G and beyond held on 03/13/2021 -03/14/2021	National Institute of Technology , Tiruchinappalli title sponsored by Micron	**https://drive.google.com/file/d/1_FGYArl4kwCHstIm6TmuyWljkrD0E3v5/view?usp=sharing**
6.	Soujanya GS (Sem:6)	Python basis course on 06/16/2021	University of Michigan	**https://drive.google.com/file/d/1he9ah78fo1FmvaesYQltRNeMJToruOi7/view?usp=drivesdk**

7.	Anil Kumar K (Sem:6)	Crash course on Python on 06/19/2021	Coursera course	**https://drive.google.com/file/d/1Tu3sLIY5YIogtF3R9cwNJBkgLzh16SH-/view?usp=sharing**
8.	Banu Tejas TS (Sem:6)	Python basis course on 06/15/2021	University of Michigan	**https://drive.google.com/file/d/1j3anTRmLzPpIc40y9g9Nwz4ibiRJ8a2B/view?usp=drivesdk**
7.	Manish Acharya (Sem:6)	The winter school program on Embedded systems and Programming held from 03/10/2021 to 03/20/2021. Fundamentals of Communication and network conducted on 12/17/2020 to 12/19/2020. DST and Texas Instruments India Innovation Challenge Design Contest 2019 Data Science and Artificial Intelligence worshop on 04/07/2020 to 06/07/2020 Android App Development for Embedded System under Texas Instruments University program on 07/01/2020 and 07/02/2020	AIT in association with IEEE education society, Bangalore chapter AIT in association with ISTE Karnataka section, Karnataka. Texas Instruments powered by AICTE and anchored by NSRCEL@IIMB Gustovalley Technovations LLP EdGate Technologies Pvt Ltd, Bengaluru	**https://drive.google.com/file/d/1eukh3MN4Y9XVGJy3jCxz2c-SIkyKSzBS/view?usp=sharing**
8.	Mayukh Chatterjee (Sem:6)	Graduate Rotational Internship Program from 04/2021-05/2021 Successful selection as an Intern for function Web Development and Designing on 03/25/2021	The Sparks Foundation The Sparks Foundation	**https://drive.google.com/file/d/1mnSBbk4QjG3-cznvdRgMozrFRmbbtrVM/view?usp=sharing**
9.	Pavan P (Sem:6)	The Arduino platform and C-programming on 09/23/2021 Introduction to the Internet of Things and embedded systems	University of California,Irvine University of California,Irvine	**https://drive.google.com/file/d/1hB3S706Efxz_usPU2RdnH122vpXFKh0Z/view?usp=drivesdk**

		on 09/17/2020 The Raspberry Pi platform and Python programming for the Raspberry Pi on 09/28/2020 Javascript Programming on 11/16/2020. The course on Digital Circuits with a consolidated score of 69% [Elite] The winter school program on Embedded systems and Programming held from 03/10/2021 to 03/20/2021 Fundamentals of Communication and network conducted on 12/17/2020 to 12/19/2020.	University of California,Irvine Udemy NPTEL online certification from In Institue of Technology, Kharagpur. AIT in association with IEEE education society, Bangalore chapter. AIT in association with ISTE Karnataka section, Karnataka.	
10.	Arjun Mangal (Sem:6)	The winter school program on Embedded systems and Programming held from 03/10/2021 to 03/20/2021 Grab opportunity in pandemic through Linkedin held on 04/18/2021	AIT in association with IEEE education society, Bangalore chapter. Developer Student Clubs of AIT	**https://drive.google.com/file/d/1j0UYBwSiiA0fLaofj4jGmRmLpr_fjHkd/view?usp=drivesdk**
11.	Anwaydeep Nath (Sem:6)	Selected as an Internshala student partner (isp 23) of Acharya Institute of Technology	Internshala	**https://drive.google.com/file/d/1LDum9dftuVBXoOSBMYFDmWHKB4E07vxP/view?usp=sharing**
12.	Himanshu Kumar Sinha (Sem:4)	Python basis course on 06/16/2021.	University of Michigan	**https://drive.google.com/file/d/1j4777leXmC0MKg_rUpfjPSCPbslyM_RP/view?usp=drivesdk**
13.	Ankkitha (Sem:4)	1st Prize in the poster presentation competition conducted on 02/29/2020	Science Forum ,AIT	**https://drive.google.com/file/d/1-F5Gy1VETZO4Se_GRbddxEttKPN7jhUJ/view?usp=sharing**

14.	Pooja DB (Sem:4)	Heartfulness –Experience Life's Potential for the development of essential life-skills and Understanding of core human values.	Wonder Wisdom –Heartfulness Education Trust	**https://drive.google.com/file/d/16gJxh0ZapD1-4LCLzC_SMubMJ92fMvCk/view?usp=sharing**
15.	Punith kumar.N (Sem:2)	Essay competition held on 07/01/2020	Nature Watch Acharya Institues	**https://drive.google.com/file/d/1abURNhtr43zt_0xmx1TotKtwXRz6kkeL/view?usp=sharing**
16.	Sandeep J (Sem:2)	Teckno Fest 2020	Ramaiah Polytechnic college, Bengaluru	**https://drive.google.com/file/d/1GkqsU5cmm14Zb8vujKs6PfhZQIowFbL2/view?usp=sharing**

TRAINING & PLACEMENT

CO-ORDINATORS

NATARAJU A B
Assistant Professor
ECE Department
AIT Bangalore
natarajuab@acharya.ac.in

PRIYANKA K C
Assistant Professor
ECE Department
AIT Bangalore
priyankakc@acharya.ac.in

PLACEMENT AT ACHARYA

The Placements at Acharya campus is a dynamic, real-time process which is inclusive, proactive, ambitious and wholesome. Acharya has successfully placed 100% of its students from the professional programmes and the placement process is constantly tuned based on Industry need and feedback. Our Placement Cell monitors the employment opportunities and arranges campus recruitment process interviews for the final year students and provides internship opportunities for pre-final year students. We start placement process for pre-final semester in the month of June. Students are prepared for all kind of interviews well in advance.

Encompassing every dimension of the Placement Process

- Understanding the dynamically changing needs of the corporate through formal structured interactions
- Detailed Profiling of the students to identify their aspirations, strengths, weaknesses and potentials
- Embarking upon a Full Enablement Format which will address every issue from competency to Career
- Students' exposure to Corporate expectations by enabling direct contact in every stage
- A 365-Day commitment to the cause that underlines Significance and Preparedness
- Unique single-window 'Pooled-Placement-Process' in campus to help large recruiters
- Focused Competency Enhancement of students in both Technical and Softskill areas for 'Day-One' Employability

STUDENTS PLACED IN THE YEAR 2019-2020

NAME	COMPANY
SRISTI BASU	INFOSYS
AASTHA MISHRA	Lido learning
ABHAY PATEL	TCS, NTT
AKASH KUMAR	TCS, BuziBrains
AKSHAY C RAIKAR	INFOSYS
ANKIT KUMAR	Byju's
ASHWIN RAIKAR	CTS
BESTHA LAHIRIMAHASAYA	INFOSYS
BHARATH K S	Amazon
BHUVANESHWARI PARAGI	NTT
DARSHAN C GANJI	ACCORD
G SOUMYA RANI	RDA Labs
GURRAM ANIRUDH VENKATA SATYA SAI	TCS
K. B. JHANSI RANI LAKSHMI BAI	INFOSYS
KIRAN C	CTS
KUSHAL SAI R	NTT, CTS
LAVANYA D A	INFOSYS
MAHESH S TARANAL	Ernst & Young
MANJUNATH GANAPATI HEGDE	EvryVed Pvt Limited
MANJUSHREE.M	INFOSYS
POOJA	NTT
PRABHAT KUMAR	TCS
RAHUL M	INFOSYS
RAMESH H B	INFOSYS
SAGAR GANGADHAR PALLED	INFOSYS
SALONI KUMARI	Terralogic software solutions
SHAIK WASIM S A	ProdApt
SHIPPU BHUSHAN	INFOSYS
SHIVIKA SRIVASTAVA	Apptus S/W
SONAL AGARWAL	INFOSYS
SPOORTI	NTT, BuziBrains
SRIKANTH REDDY L	CTS
SUDHANVA B D	CTS
SUHAS A	INFOSYS
SUHAS SV	EMBTECH
SUMAN B C	TCS
UDAY BASAVARAJ DUGGANI	INFOSYS
GOWTHAM KN	CTS
K B HARISH SHETTY	Test & Verification Solutions

STUDENTS PLACED THIS YEAR
2020-2021

PLACED AT	USN	NAME
JARO	1AY17EC001	AAYUSHI SHARAN
CTS	1AY17EC005	AKASH L P
CTS, TCS	1AY17EC010	ARAVINDA Y T
CTS, CLIMBER	1AY17EC014	BAIBHAV CHOWDHURY
CLIMBER	1AY17EC018	CHINTADU GAUTHAMI
INFOSYS	1AY17EC022	DIMPLE V
CTS, INFOSYS, TCS	1AY17EC030	JANANI B
CLIMBER	1AY17EC036	KEERTHANA M
XORIANT	1AY17EC038	KUSHAGRA TANDON
CTS, INFOSYS	1AY17EC042	MANISH B
CTS	1AY17EC050	NAVEEN KUMAR K
TCS	1AY17EC063	PRATHVIRAJ H.K.
42Gears	1AY17EC064	PRATYUSH
CTS	1AY17EC067	R.ABHISHEK
Qspiders	1AY17EC070	RAKESH S G
CTS	1AY17EC088	SYED ABDUL GAFFAR SHAKHADRI
MahaMela	1AY17EC089	TANAY TAPANSHU
CTS	1AY17EC096	VENKATA PRAJWAL M
INFOSYS	1AY17EC097	VENU G SOGANADGI
CTS, Evertz	1AY17EC101	VEDA VYAS
INFOSYS	1AY17EC102	VIVEK RAJ
CTS, INFOSYS	1AY17EC103	VIVEKANAND
INFOSYS	1AY17EC116	MEHAVARSHNI P
Qspiders	1AY18EC406	BALACHANDRA V JOSHI

SOME OF OUR TOP RECRUITERS

TCS
Infosys
Capgemini
accenture
Mphasis The Next Applied
wipro
Mindtree A Larsen & Toubro Group Company
Cognizant
SPECTRUM Consultants
SUBEX
LTI Let's Solve
VOLTAS

INTERNSHIP

The students are taken an internship at different companies as mentioned below. They have experienced industrial training professionally related to different domains like: Machine Learning, Deep Learning, AI, VLSI and Embedded design etc. As technology evolves day after day and there are several issues to be solved using these technologies. The students are exploring and keeping themselves updated.

Students are completed their internship in following domains:

- Machine learning
- Deep learning
- Biomedical Application (Product Development)
- Embedded Systems
- VLSI design
- Artificial Intelligent
- Quantum Computing
- Networking for IOT
- Python with Machine Learning, etc.

Internship Attended By The Students

List Of Students Who Completed The Internship

https://drive.google.com/file/d/1COgFJbKYKsF22IobYHrL7H4BV5eP6w1n/view?usp=sharing

INTERNSHIP DETAILS-2021

NAME	USN	Name Of Institute/ Organization With A Location (Where The Internship Was Pursued).	From	To
Syed Abdul Gaffar Shakhadri	1AY17EC088	Sandlogic Technologies Pvt. Ltd, Bangalore	05-11-2020	10-05-2021
Architha R	1AY17EC110	515 Army Base Workshop	15-03-2021	14-04-2021
Shivam Yadav	1AY17EC079	Uniq Technologies, Bangalore	08-01-2020	08-02-2020
Vivek Raj	1AY17EC102	Uniq Technologies, Bengaluru	08-01-2020	08-02-2020
Prashant Kumar	1AY17EC062	Pantech Solution (Online)	01-09-2020	30-09-2020
Kalukhe Siddhesh Vikas Susmita	1AY17EC408	Mindset It Solutions	04-04-2021	03-05-2021
Amulya M	1AY18EC402	Karunadu Technologies Pvt.ltd	15-04-2021	15-05-2021
Naveen Kumar K	1AY17EC050	Sandlogic Technologies (Banashankari, Bangalore)	04-11-2020	30-05-2022
Akash L P	1AY17EC005	Sandlogic Technologies, Banashankari, Bengaluru	04-11-2020	30-05-2021
Yogesh K B	1AY17EC108	Karnataka German Technical Training Institute	04-03-2021	10-04-2021
Rashmita Shah	1AY17EC109	KGTTI	03-02-2021	04-02-2021
Faizan Nayyer	1AY17EC023	Agimus Technologies	15-03-2021	30-04-2021
Rishikesh V R	1AY16EC074	Heatcon Sensors Ltd ,Hessarghatta , Bangalore,India	01-03-2021	28-03-2021
Pooja Choudhary	1AY16EC055	Gustovalley Technovations, Hosur(Tamilnadu)	10-11-2020	10-12-2020
Vikas Gowda K B	1AY17EC099	Avm Labs, Bangalore	01-08-2020	31-08-2020
Baibhav Chowdhury	1AY17EC014	Agimus Technology	15-03-2021	30-04-2021
Himakar Reddy	1AY16EC113	Xcelerator(Hed Pvt Ltd)	07-07-2019	01-08-2019
Aishwarya mishra	1AY16EC006	Cisco	03-04-2021	30-05-2021
Akhilesh J	1AY17EC006	Abeyaantrix Softlab Opc Pvt Ltd.	24-08-2020	23-09-2020

Vivekanand	1AY17EC103	The Sparks Foundation (Internship Was Pursued Online Mode))	01-11-2020	30-11-2020
Md Aftab Alam	1AY18EC411	515 Army Base Workshop, Bangalore	15-03-2021	14-04-2021
Raghavendra N	1AY18EC417	Karunadu Technology Pvt And Ltd	15-03-2021	15-04-2021
Shubha Y	1AY17EC080	515 Army Base Workshop, Bengaluru	15-03-2021	14-04-2021
Aravinda Y T	1AY17EC010	Sandlogic Technologies, Bengalore.	04-11-2020	31-05-2021
Shreenivas Joshi	1AY17EC082	Sandlogic Technologies Pvt Ltd	04-11-2020	31-05-2021
Preritha G	1AY18EC416	Karunadu Technologies Private Limited	15-03-2021	15-04-2021
Niroosha P	1AY18EC413	Karunada Technology Pvt Ltd	15-03-2021	15-04-2021
P Jyothirmai	1AY17EC414	Technofly Solutions, Vijayanagar, Bangalore	27-03-2021	27-04-2021
Kushagra Tandon	1AY17EC038	London Strategy & Consulting Group (Fintract Global)	15-08-2020	15-02-2021
Dimple V	1AY17EC022	Mirdo Technologies Llp.	05-10-2020	06-11-2020
Tanziya T	1AY17EC090	515 Army Base Workshop, Banglore.	15-03-2021	14-04-2021
Anjali M T	1AY18EC404	Acharya Institute Of Technology	15-03-2021	15-04-2021
Mehavarshni P	1AY17EC116	515 Army Base Workshop, Bengaluru	15-03-2021	14-04-2021
Sahana Kv	1AY17EC076	515 Army Base Workshop, Bangalore	15-03-2021	14-04-2021
Venu G Soganadgi	1AY17EC097	Avm Labs	01-08-2020	31-08-2020
B Likith	1AY17EC013	Abeyantrix Softlab	24-08-2020	23-09-2020

Ravikiran G N	1AY17EC072	Karnataka German Technical Training Institutes, Near Madhavar	02-03-2021	02-04-2021
Ashwin Ashok	1AY17EC012	Mirdo Technologies Llp , Bangalore	15-10-2020	16-11-2020
Yashwanth N Gowda	1AY17EC107	Agimus Technologies Pvt.ltd, Home(Online Mode)	21-08-2020	25-09-2020
Subrahmanya Nayak	1AY17EC083	TishyaâEUR™S Medical Device Development Solutions Private Limited, B-1, Sv Innovations, Anugraha Layout, Anjappa Layout, B Narayanapura, Krishnarajapura, Bengaluru, Karnataka 560092	25-05-2020	25-12-2020
Tejashwini V	1AY17EC115	Karnataka German Technical Training Centre	02-03-2021	02-04-2021
Manu M M	1AY17EC112	KGTTI	07-03-2021	09-02-2021
Darshan Y P	1AY17EC019	Abeyaantrix Soft Lab Opc Private Limited. Davangere	24-08-2020	23-09-2020
Yash Sunil Sachdev	1AY17EC106	Cisco (RVCE College Of Engineering)	05-08-2020	05-09-2020
Chiranjeevi K V	1AY18EC409	Gustovalley Technovations, Bangalore	21-08-2020	20-09-2020
Piyali Ganguly	1AY16EC053	Avm Labs ,Bengaluru	01-08-2020	31-08-2020
Janani B	1AY17EC030	Vi Solutions, Bangalore	17-08-2020	18-09-2020
Suraj C	1AY17EC086	Avm Labs At 6Th Cross, Sarakki Main Road , Bangalore	01-08-2020	31-08-2020
S Balasurya	1AY17EC073	Central Manufacturing Technology Institute In Peenya	08-03-2021	07-04-2021

R Tanish Ballal	1AY16EC067	Dare - Drdo, Kaggadasapura Main Road, Cv Raman Nagar P O, Banglore-560093	22-12-2020	22-01-2021
Venkata Prajwal M	1AY17EC096	Avm Labs, Bangalore	01-08-2020	31-08-2020
V Rahul	1AY17EC093	Central Manufacturing Technology Institute	08-03-2021	07-04-2021
Yallappa Reddy Mounika	1AY17EC104	Avm Labs, Bangalore	01-08-2020	31-08-2020
Vega Kavery	1AY17EC095	Army Base Workshop, Bangalore	15-03-2021	14-07-2021
Sahana B	1AY17EC075	Acharya Institute Of Technology	15-03-2021	15-04-2021
P Teja	1AY17EC056	Crofting Technology	15-03-2021	15-04-2021
Ananya E	1AY18EC403	Gusto Valley Technovations	12-10-2020	12-11-2020
Karthik R S	1AY17EC035	Agimus Technologies Pvt. Ltd. ,Bangalore	21-08-2020	25-09-2020
Rohith Kumar V K	1AY17EC114	Crofting Technologies	15-03-2021	15-04-2021
Prathviraj	1AY17EC063	Karnataka German Technical Training Institute, Bannerghatta Road, Benagaluru, 560029	02-03-2021	02-04-2021
Giriraj C R	1AY18EC410	Karnataka German Technical Training Institute (KGTTI) , Banglore	02-03-2021	02-04-2021
B Bhanuprakash Reddy	1AY16EC019	Anz/ Virtual	05-04-2021	13-05-2021
Karthikeya Burugula	1AY16EC024	Gustovalley Technovation	09-12-2020	09-01-2021
Vijendrakumar Reddy Kona	1AY17EC031	Mirdo Technologies	07-04-2021	06-05-2021
Praveen Agnihotry	1AY17EC065	Cisco Systems, Bangalore, Karnataka	05-08-2020	05-09-2020
Pratyush	1AY17EC064	Agimus Technologies Private Limited.	21-08-2020	25-09-2020
Mohammad Parvez R S	1AY17EC046	Vi Solutions, Bangalore	27-07-2020	28-08-2020
Annapurna C R	1AY17EC009	KGTTI	02-03-2021	02-04-2021

Arijit Bhattacharya	1AY16EC014	Clifford Chance (Virtual Internship)	06-03-2021	06-05-2021
Chandana Kumari	1AY18EC408	Gustovalley Technovations	21-08-2020	20-09-2020
Raghuram B	1AY17EC068	Crofting Technologies, Bangalore	15-03-2021	15-04-2021
Deepak S	1AY17EC020	Agimus Technologies Put. Ltd.	07-09-2020	16-10-2020
Pavan Kumar M	1AY17EC057	Crofting Technologies _Bangalore	15-03-2021	15-04-2021
Prakruthi A M	1AY17EC060	Crofting Technologies, Banglore	15-03-2021	15-04-2021
Keerthana M	1AY17EC036	Mirdo Technologies Llp, Vijaynagar	15-10-2020	16-11-2020
Vinay G D	1AY17EC100	Crofting Technologies	15-03-2021	15-04-2021
Dhanushree K	1AY17EC021	Mirdo Technologies Llp Near Vijaynagar	15-10-2021	16-11-2021
Kishor Kumar Naik P	1AY17EC037	Internshala	01-10-2020	01-11-2020
Karthik M Ellur	1AY17EC034	Karnataka German Technical Training Institute	03-02-2021	04-02-2021
Manish B	1AY17EC042	Agimus Technologies Pvt. Limited, Koramangala, Bengaluru	07-09-2020	16-10-2020
Sudhakara Shridhar Naik	1AY18EC423	Mindsoft Technologies	05-03-2021	05-04-2021
Tejaswi G	1AY18EC424	Mindsoft Technologies - Vijaynagar, Bangalore	05-03-2021	05-04-2021
Sanjay M N	1AY18EC 420	Karnataka German Technology Technical Training Institute, Bangalore	02-03-2021	02-04-2021
Priyanka R	1AY17EC113	KGTTI	04-03-2021	10-04-2021
R Abhishek	1AY17EC067	Agimus Technology Pvt Ltd.	07-09-2020	16-10-2020
Kokila N	1AY17EC111	KGTTI	04-03-2021	10-04-2021

Muppala Kusalasri	1AY17EC047	Mirdo Technologies Llp, Bangalore	15-10-2020	16-11-2020
Manoj M	1AY17EC043	Mirdo Technologies, Bengaluru	15-10-2020	16-11-2020
Balachandra V Joshi	1AY18EC406	Acharya Institute Of Technology	21-08-2020	20-09-2020
Rajeshwari Mariyammanavar	1AY17EC069	Crofting Technologies, Dharwad	15-03-2021	15-04-2021
Yash Bajarang Agarwal	1AY17EC105	Aniroj Ai Pvt Ltd Pune	16-05-2021	16-06-2021
Ganesh B	1AY16EC402	Pricewater House Coopers (Pwc)	01-03-2021	30-03-2021
Sagar S R	1AY18EC419	Karunadu Technology Pvt.ltd	05-04-2021	05-05-2021
Chintadu Gauthami	1AY17EC018	Mirdo Technologies, Vijaynagar	13-04-2021	14-05-2021
Sai Swathishree V M	1AY17EC077	Hayatech Proper Solutions	02-03-2021	02-04-2021
Ganesh Prasad D	1AY16EC029	Bustudymate, Bangalore	06-09-2020	31-10-2020
Adithya K Purnesh	1AY16EC005	Agimus Technologies	21-08-2020	25-09-2020
Pooja G K	1AY18EC414	Whizchip Pvt .Ltd	01-03-2021	01-04-2021
Balashowreddy Ganji	1AY17EC016	Mirdo Technologies	07-04-2021	06-05-2021
Bala Sai Sujan	1AY17EC015	Crofting Technologies	15-03-2021	15-04-2021
Ajay Reddy	1AY17EC003	Acharya Institute Of Technology, Bengaluru	21-03-2021	19-04-2021
Nitinkumara Reddy R M	1AY17EC055	Acharya Institution Of Technology	01-06-2021	01-07-2021
C Mmaheswara Reddy	1AY15EC026	Mindset It Solutions & Consultants Bangalore	10-03-2021	10-04-2021
Swatireddy.b.b	1AY17EC087	Crofting Technology Dharwad	15-03-2021	15-04-2021
Viswa Brahmana Vedavyas	1AY17EC101	Acharya Institute Of Technology	16-09-2020	15-10-2020
Rakesh S G	1AY17EC070	Crofting Technology	15-03-2021	15-04-2021
Suchitra Reethi M	1AY17EC084	Gustovalley Technovations	12-09-2020	01-09-2021
Ravi Kumar Singh	1AY17EC071	Pantech Solution	01-03-2021	01-04-2021

Aayushi Sharan	1AY7EC001	Acharya Institutes Of Technology	01-08-2017	31-07-2021
Mahendra T	1AY17EC411	KGTTI	02-03-2021	02-04-2021
Utkarsh S Joshi	1AY17EC092	CoE, RVCE (Cisco Supported)	05-08-2020	05-09-2020
Prajwala V S	1AY17EC415	KGTTI	02-03-2021	02-08-2021
Kanhaiya Kumar	1AY17EC033	Agimus Technologies Pvt. Ltd.	15-03-2021	28-04-2021
Sumith Kumar K R	1AY17EC085	Medevplus	01-05-2020	01-01-2021
Chandu P	1AY17EC017	Agimus Technologies Pvt Ltd, Bengaluru	21-08-2020	25-09-2021
Gnana Harshini Peddineni	1AY17EC058	Technofly Solutions, Bangalore	15-03-2021	15-04-2021
Goutham J M	1AY17EC028	KGTTI	02-03-2021	02-04-2021
Ajith R Shet	1AY17EC004	Exposys Data Labs	05-05-2021	05-06-2021
Ranjita T P	1AY17EC416	KGTTI	02-03-2021	02-04-2021
Anjali Gupta	1AY16EC115	AIT, Bangalore	15-03-2021	15-03-2021
Maremma	1AY17EC044	KGTTI	02-03-2021	02-04-2021
Varunraj Kumar C Rao	1AY17EC094	Cisco Systems Inc., Bangalore	05-08-2020	05-09-2020
Nisha R	1AY17EC053	Karnataka German Technical Training Institute	04-03-2021	10-04-2021
Tanay Tapanshu	1AY17EC089	Mela	01-03-2021	16-07-2021
Navyashree G	1AY17EC052	Technofly Solutions	05-04-2021	05-05-2021
Pruthvi Raj Patil	1AY15EC071	Pricewater House Coopers	01-03-2021	31-03-2021
Karthik B M	1AY14EC034	Gustovalley Technovations	02-06-2020	30-06-2020
T N Yogeesh	1AY17EC422	Pantech Solution	04-10-2020	05-11-2020
Vidya H	1AY18EC425	Gustovalley Technovations Llp Hosur	21-08-2020	20-09-2020
Arijit Bhattacharya	1AY16EC015	Clifford Chance (Virtual Internship)	06-03-2021	06-05-2021

ACHARYA

Alumni Podcast

Mr.

RUVAN REKOGAMA

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Presently working at SRI LANKA TELECOM, SRILANKA. He was recently positioned as a HEAD OF PRODUCT AND DEVELOPMENT MANAGEMENT TEAM. Prior to that, he played different roles as a Motivator, Negotiator, Researcher, Project Manager and a Consultant to multifarious development projects .He has completed his M.Sc. in project management from the university of WEST LONDON.

Q&A

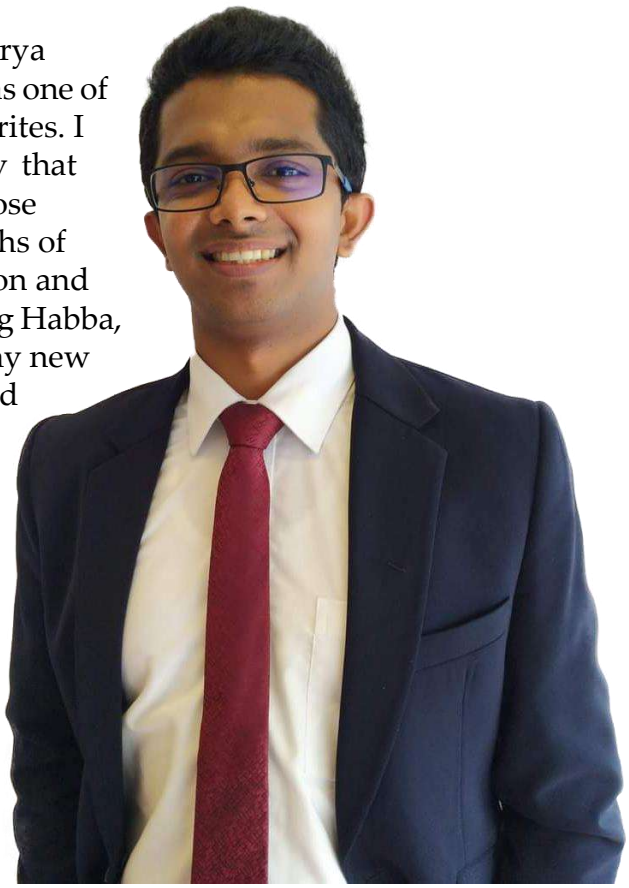
Q What really made you to choose this department and pursue the career?
A… Electronics is a subject which is very dynamic which encouraged me to pursue a career in the same. In this we need to know about both software as well as hardware part. I feel that it was the best subject to explore and learn about in the present day world as it is relevant in most of the trending domains.

Q Would you like to share some of your experience regarding your career path?
A… Firstly, I joined a GPS technologies company named Geo Informatics School based in Sri Lanka. Then I joined UID which deals with IT applications. In 2015, I joined a telecom which has the largest backbone of internet in Sri Lanka. That was the turning point in my life.

Q Everyone has a role model, so whom do you consider as your role model in your life?
A… I admire Dr. A.P.J. Abdul Kalam as a personality. He is a teacher and an engineer to me who was always committed to inculcate life skills and look for solutions for the society using technical skills.

Q Would you like to give any advice or share your experience about internships and placement to your juniors?
A… I did two internships in my last two semesters i.e. starting of sixth and seventh semster. It's really important to build your personality and have good connections.We need to apply the things learnt in engineering in practical terms which can be going for an internship especially after fifth semester.

Q Apart from the study, which activity do you like the most or enjoyed the most in cultural activity?
A… Acharya Habba was one of my favourites. I would say that within those two months of preparation and organizing Habba, I met many new people and enjoyed moments together.



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Dr. PRITHVI SHEKHAR

Presently working at L & T TECHNOLOGY SERVICE LIMITED , BENGALURU. He recently assumed a position as a SPECIALIST. Prior to that, he was in different roles as PRINCIPAL EDUCATOR, SPECIALIST, SENIOR EXECUTIVE, RESEARCHER .He completed his Ph.D in Robotics And Automation from the Universidad politecnica de madrid.

Q&A

A.. So, after college, I graduated, and majority of my batchmates if you chronically see it most of us would be in core companies. Also batches doing extremely well a lot more competition very good and was interested in research and paper publications.

Q Everyone has a role model, so whom do you consider as your role model in your life?

A… I think very strongly, it's the people. Everything is made up of people whether it's college or society. They make phenomenal institutions, Phenomenal society, phenomenal family. What I am because of the contributions of people perceive.

Q Would you like to share any memorable moment of your college life?

A… I have quite many memorable moments in college life, whether it is staying in the hostel, making those bonds with my bachelor juniors ,my seniors. I actually nominal seniors I literally did not buy one textbook from second year on which they've been so kind of shared their books. Similarly, faculty is one of the reasons. Too many enjoyable experience all my own classmates, my juniors, seniors, even management.

Q As you have a lot of experience, would you like to share your experience with us about your Internships and Placement?

A… My recommendation to all the young folks is to leverage the opportunity. You can reach or create altitude of great heights, as long as you pick up the right altitude, and right attitudeAs long as you create applications and projects ,small mini projects and everything else when you become experience, you will be able to plan yourself with phenomenal options by fixing one.

Q What really made you to chose this particular department and pursuing branch?

A… I really started loving what I was doing and what was happening right in the space of Electronics and Communication and definitely a faculty of department was a huge role to play, because when I was pursuing it was just opening up dispatches to come in.

Q Would you like to share some experience regarding your career path?

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PARENTS REVIEW

1. The facilities provided by the department are adequate including labs, there are sufficient computers and electronic equipment available which the student can access thus providing a better understanding towards the subject. Concerning sports and extracurricular activities, adequate facilities are provided, thus allowing the student to participate in other activities apart from studies. The college atmosphere creates a positive vibe for the students.

2. The department has conducted webinars, workshops, and various online courses providing the student additional knowledge apart from the syllabus. Furthermore, the students could explore and discover innovative ideas by using the library and spending their free time based on their interests. Since the certificates are provided, it would improve the resume of the student.

3. Since the students can interact their point of view and feel comfortable in clarifying their doubts, it is evident that the faculties are putting efforts to ensure that the students are able to understand a certain topic.

4. The most important aspect is, the department has provided every student a proctor which is a silver lining, since each student can interact personally, and are taken care by the faculty. We are also in contact with the faculties which ensures us that the student is safe and secure under their guidance.

5. I would suggest the department to arrange some counselling classes to create awareness and keep the students updated from time to time. I would like to extend my gratitude towards the department for their time and efforts into the student's future.

FROM

Mr. Ramakant Prasad
Motihari, Bihar

Audio edited by

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"Teamwork is the ability to work together towards a common vision"