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கே.எல்.என். பொறியியல் கல்லூரி K.L.N. College of Engineering

Pottapalayam-630612.(11 km from Madurai City) Sivagangai District,Tamilnadu,India.
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Amarar
Shri K.L.N. KRISHNAN



Founder President
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InterfACE Newsletter

"There's Nothing called giving up!"

VISION OF THE INSTITUTION

To become a Premier Institute of National Repute by Providing Quality Education, Successful Graduation, Potential Employability and Advanced Research & Development through Academic Excellence.

MISSION OF THE INSTITUTION

To Develop and Make Students Competent Professional in the Dynamic Environment in the field of Engineering, Technology and Management by emphasizing Research, Social Concern and Ethical Values through Quality Education System



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Department Of Computer Science and Engineering

VISION OF THE DEPARTMENT

To be a competent Professional in the field of Computer Science & Engineering through quality education, training and innovative research

MISSION OF THE DEPARTMENT

Imparting proficient education through quality teaching – learning process in tune with the interdisciplinary needs of global work environment. Inculcating the attitude of continuous learning through industry institution interaction, consultancy and research activities.Cultivating professionalism, Ethics and integrity of character for positive contributions to society.



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Principal's Message

As students are the members of the progressive society, the teacher's shall not fight today's battle with yesterday's weapon, but they must prepare them to face all the eventualities of life. Thus, teachers are the architects of a country. Consequently, the true education should deepen our insight, widen our horizon and create a meaningful outlook. Fortunately, the students are born in a free nation, with all the facilities to shape their careers in such a way, that they should be a part of good and healthy society with progressive attitude towards divinity.

HOD's Message

My appeal to all my dear students is to attend all the classes, make use of the libraries extensively and read text books regularly and take part in technical paper presentations and seminars and undergo training in various, skill sets, so that, they will not face difficult times in their professional careers, since they will be mostly on standalone mode. In this respect, I humbly request the parents and guardians to show more interest in their wards day to day activities and overall performance. Parents are also requested to attend the parents association meeting held by the college.



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Editor's Words

Dear Students,

A warm welcome to the latest issue of our Departments's Newsletter INTERFACE, for the year, 2018-19. The objectives of the Newsletter are:

-To recognize the achievements of students and faculty of our department.

-The showcase the works and talents of our students and faculty.

I congratulate all my team for their constant efforts in bringing out this Newsletter, We are grateful to the Management, EO, and Our Principal for the constant support.

Editing Team

EDITOR IN-CHIEF

Dr. P.R. VIJAYALAKSHMI (Professor & Head)

EDITORS

Dr. S. MIRUNA JOE AMALI (Professor)

Mrs.S.VENKATALAKSHMI (AP/CSE)

STUDENT INCHARGE

Ms. J H MADHUMITHA Final yr, CSE

Ms. S MEENAKSHI Final yr. CSE



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About Our Department

Computer Science is taking over the world by storm. Computer Science and Engineering as a branch caters to all the needs of the fast paced world of technology.

Computer Science and Engineering demands a blend of creative and technical skills. Computer Science and Engineering graduates are widely employed in the software industries throughout the world. Taking this in mind, the department is always committed in creating the engineers that the future demands.



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Programme Educational Objectives(PEO's)

PEO I: Contribute effectively to the society by applying principles of computer science and engineering for analyzing the real world problems to produce Optimal and acceptable technical solutions.

PEO II: Sustain as good professionals by pursuing career / advanced studies and practice innovation in emerging technologies through lifelong learning.

PEO III: Build professionalism, team work, effective communication, ethical values and leadership qualities.

Programme Specific Outcomes (PSO's)

PSO 1: Ability to apply good analytical, design and implementation skills to formulate and solve scientific and business applications pertaining to Algorithms, Computer Systems, Networks, Security, Data Analytics and Artificial Intelligence.

PSO 2: Ability to update knowledge continuously in the tools like Rational Rose, MS VISIO, NS, VMware workstation, Mobile Application Development tools and technologies like storage, Computing, communication to meet the industry requirements.



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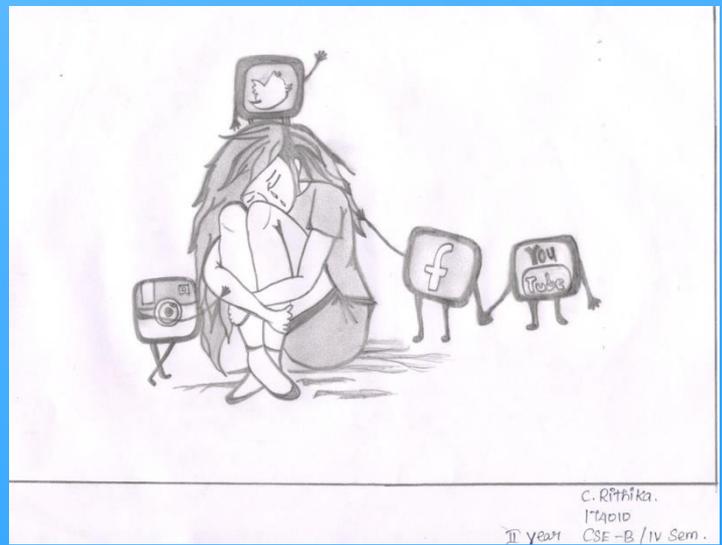
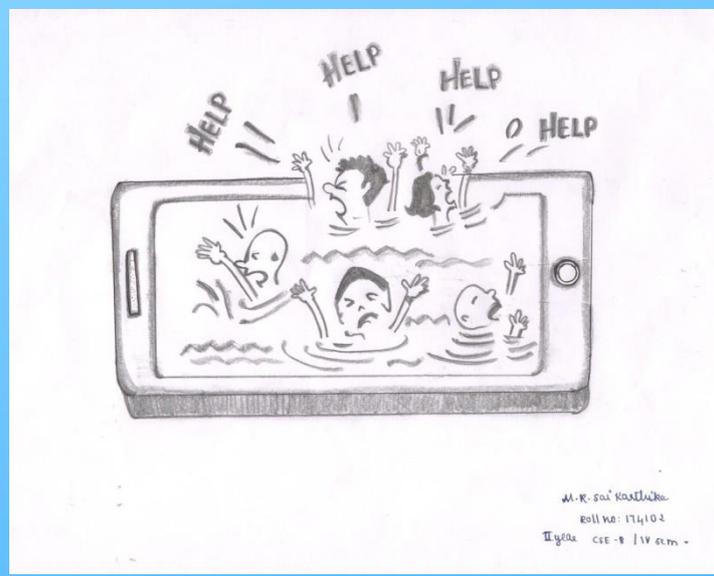
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STUDENTS' CORNER

The Artists of our Department have some message:





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POMODORO TECHNIQUE

Mrs. G.Rajeswari
-AP, CSE

The Pomodoro Technique is a time management method developed by Francesco Cirillo in the late 1980s. The technique uses a timer to break down work into intervals, traditionally 25 minutes in length, separated by short breaks. Each interval is known as a pomodoro, from the Italian word for a tomato, after the tomato-shaped kitchen timer that Cirillo used as a university student. The technique has been widely popularized by dozens of apps and websites providing timers and instructions. Closely related to concepts such as timeboxing and iterative and incremental development used in software design, the method has been adopted in pair programming contexts.

There are six steps in the original technique:

1. Decide on the task to be done.
2. Set the pomodoro timer (traditionally to 25 minutes).
3. Work on the task.
4. End work when the timer rings and put a checkmark on a piece of paper.
5. If you have fewer than four checkmarks, take a short break (3-5 minutes), then go to step 2.
6. After four pomodoros, take a longer break (15-30 minutes), reset your checkmark count to zero, then go to step 1.



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The stages of planning, tracking, recording, processing and visualizing are fundamental to the technique. In the planning phase, tasks are prioritized by recording them in a "To Do Today" list. This enables users to estimate the effort tasks require. As pomodoros are completed, they are recorded, adding to a sense of accomplishment and providing raw data for subsequent self-observation and improvement. For the purposes of the technique, a pomodoro is the interval of time spent working. After task completion, any time remaining in the Pomodoro is devoted to over learning. Regular breaks are taken, aiding assimilation. A short (3-5 minutes) rest separates consecutive pomodoros. Four pomodoros form a set. A longer (15-30 minute) rest is taken between sets. A goal of the technique is to reduce the impact of internal and external interruptions on focus and flow. A pomodoro is indivisible; when interrupted during a pomodoro, either the other activity must be recorded and postponed (inform - negotiate - schedule - call back) or the pomodoro must be abandoned Tools.

The creator and his proponents encourage a low-tech approach, using a mechanical timer, paper, and pencil. The physical act of winding the timer confirms the user's determination to start the task; ticking externalizes desire to complete the task; ringing announces a break. Flow and focus become associated with these physical stimuli. The technique has inspired application software for several platforms



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MEDICONNECT

- N.B.HARSHINI,

IV year, A sec

Wearable devices are currently at the heart of just about every discussion related to the Internet of Things. The requirement for self-health monitoring and preventive medicine is increasing due to the projected dramatic increase in the number of elderly people until 2020. In Today-s tautness life people are facing multiple physical, physiological, psychological problems. They have no time to visit doctors repeatedly. There is a situation when a patient requires treatment on the spot. Therefore, it is essential to develop cost-effective, easy-to-use systems for the sake of elderly healthcare and well-being. Developed technologies are truly able to reduce the overall costs for prevention and monitoring. This is possible by constantly monitoring health indicators in various areas, and in particular, wearable devices are considered to carry this task out. These wearable devices and mobile apps now have been integrated with telemedicine and telehealth efficiently, to structure the medical Internet of Things. The Internet of Things (IoT) is a new concept, providing the possibility of healthcare monitoring using wearable devices. Remote health monitoring, based on wearable sensors, actuators and modern communication and information technologies offers an efficient and cost-effective solution that allows the elderly to continue to live in their comfortable home environment nstead of expensive healthcare facilities. These systems will also allow healthcare personnel to monitor important physiological signs of their patients,i in real time, assess health conditions and provide feedback from distant facilities.



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This system has presented and compared several low-cost and non-invasive health and activity monitoring systems that were reported in recent years.

Today, the range of wearable systems, including micro-sensors seamlessly integrated into textiles, consumer electronics embedded in fashionable clothes, computerized watches, belt-worn personal computers (PCs) with a head mounted display ,glasses which are worn on various parts of the body are designed for broadband operation. The field of wearable health monitoring systems is moving toward minimizing the size of wearable devices, measuring more vital signs, and sending secure and reliable data through smart phone technology. A WHMS keeps track of temperature, blood pressure, pulse/heart rate, pulse-oximetry (SPO2) and muscle activity, etc.

The system displays these readings in real time on some kind of display. It also keeps track of historical information on an hourly and daily basis. This historical data can be pulled up on the display at the request of the user or sent to a remote server. Various techniques are used to monitor the health like standalone health monitors, wearable sensor, wireless sensor networks, microcontrollers and in the recent years cloud based e-healthcare systems have emerged. Along with these systems we have also discussed the possibilities of using Internet of Things in the field of Healthcare and rehabilitation.



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5 G

-T.R.S.NITHYADHARSINI

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What is 5G?

5G is the fifth generation of wireless network technology. The current standard, 4G, increased data-transfer rates and gave rise to many of the connected devices and services that we rely on today. Using a high frequency spectrum, small cell antennas, and AI-enabled software, the 5G network will allow up to 100X better throughput, 10X longer battery life, and 1000X larger data volumes, all while being 10X more reliable. In essence, 5G removes today's network constraints and makes possible machine-to-machine and human-to-machine experiences once inconceivable.

Why now?

Ten years after mobile carriers launched 4G, they are now experimenting with 5G technology. This investment is needed to keep pace with our demands for always-on, always-connected, and digital economy requirements.

Potential Applications:

5G is critical for most if not all of the major tech innovations envisioned today, which will require either higher speeds, lower latency, and/or massive data process power. Examples include:

- The Internet of Things (IoT): Able to handle exponentially more connections than 4G, 5G can help IoT go beyond smart homes to fully smart cities.



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. Next-Generation Automobiles:

Making self-driving cars a reality will require 5G, but flying cars may also be in our future.

. Financial Services: Faster, more secure apps can help banks better authenticate consumers and enable "remote tellers."

Advantages

Speed:

5G promises superior speeds in most conditions to the 4G network. Qualcomm presented a simulation at Mobile World Congress[13][14][15] that predicts 490 Mbit/s median speeds for 3.5 GHz 5G Massive MIMO and 1.4 Gbit/s median speed for 28 GHz mmWave. 5G NR speed in sub-6 GHz bands can be slightly higher than the 4G with a similar amount of spectrum and antennas,[17][18] though some 3GPP 5G networks will be slower than some advanced 4G networks, such as T-Mobile's LTE/LAA network, which achieves 500+ Mbit/s in Manhattan.

The 5G specification allows LAA (License Assisted Access) as well but it has not yet been demonstrated. Adding LAA to an existing 4G configuration can add hundreds of megabits per second to the speed, but this is an extension of 4G, not a new part of the 5G standard.

Low communication latency:

Latency is the time it takes to pass a message from sender to receiver.

Low communication latency is one improvement in 5G.

New use cases:

Features of 5G network, including extreme high bandwidth, ultra low latency, and high density connections, are expected to enable many new use cases that are impossible to be done via older network standards.



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Anker Powerhouse: Portable Battery

V.K.Lavanyaa

III CSE 'B'

Everyone knows how important it is to have a battery for your phone or even laptop and the Anker Powerhouse will keep you covered for an entire weekend of camping or even a power outage. With over 40 phone charges and a dedicated outlet you'll be able to power just about anything. By now, most 9to5Toys readers are likely familiar with Anker's PowerHouse 434Wh portable generator/battery. We have featured the device several times and it remains one of our favorites in the product category. The off-grid power supply is a fantastic companion to have for the technologist on-the-go or just simply as a back-up power supply during power outages and potential emergency situations. However, its \$500 price tag is still a little too steep for some. Enter the new PowerHouse 200. A smaller, more affordable version of its larger predecessor that has just been announced for CES 2018... Considering its capabilities, the original PowerHouse is more or less on par with other competitors in terms of price. But the new 200-series model brings Anker's back-up solution down to a much more affordable price range. Shaving a solid \$200 off the price of its big brother, PowerHouse 200 comes in at \$299.99 with a lighter profile and, as expected, about half the capacity. As the name suggests, it carries 200Wh of power with a 60W USB Type-C PD jack, three USB connectors and a 100W AC outlet.



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Amarar
Shri K.L.N. KRISHNAN



Founder President
(1918 - 2001)

The new model weighs in at about 7-pounds, which is slightly more than 2 pounds lighter than its larger counterpart (seen above). That's not a huge difference, but it will certainly make it less cumbersome on your hiking adventures or camping trips. The new Anker PowerHouse 200 is expected to begin shipping sometime this summer with a \$299.99 price tag. The original PowerHouse is regularly listed at \$499.99 on Amazon, but keen 9to5 readers can find them as low as \$400 from time-to-time. The new model weighs in at about 7-pounds, which is slightly more than 2 pounds lighter than its larger counterpart (seen above).





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Blockchain

G.Naga Nandhini 164024

CSE B

The blockchain is an undeniably ingenious invention – the brainchild of a person or group of people known by the pseudonym, Satoshi Nakamoto. By allowing digital information to be distributed but not copied, blockchain technology created the backbone of a new type of internet.

Originally devised for the digital currency, Bitcoin, (Buy Bitcoin) the tech community is now finding other potential uses for the technology. Bitcoin has been called “digital gold,” and for a good reason. To date, the total value of the currency is close to \$112 billion US. And blockchains can make other types of digital value. Like the internet (or your car), you don't need to know how the blockchain works to use it. However, having a basic knowledge of this new technology shows why it's considered revolutionary. So, we hope you enjoy this, What Is Blockchain Guide.

And if you already know what blockchain is and want to become a blockchain developer (2018 - currently in high demand!) please check out our in-depth block chain tutorial and create your very first blockchain. information held on a blockchain exists as a shared — and continually reconciled — database. This is a way of using the network that has obvious benefits. The blockchain database isn't stored in any single location, meaning the records it keeps are truly public and easily verifiable. No centralized version of this information exists for a hacker to corrupt. Hosted by millions of computers simultaneously, its data is accessible to anyone on the internet.



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When I lookback.

-Ajey Chandhan

IV year A sec.

When I look back,

The school bag was the heaviest thing I carried,

Heartbeat raised only for incomplete assignments,

The day was with friends in those tiny benches,

And the nights, ended with a story from the angel in disguise, Mother.

When I look back,

Heartbreaks was the heaviest thing I carried,

Heartbeat raised only when I saw into the eyes of my first love,

The day was still with friends, only that tiny screens replaced the benches,

And the nights, ended with a challenge to overcome the pain.

When I look back,

Responsibility was the heaviest thing I carried,

Heartbeat raised only when I saw the man I had become, The days was with known strangers, in a cabin with my name,

And the nights, ended with a tight hug from my queen.

When I will look back,

Life will be the heaviest thing that I will have to carry,

The sins forgiven, the good deeds unremembered,

The kids grown, a generation with a difference in front of my eyes,

I will leave this blue planet, just as I came, without anything but,

Experience, Mistakes and Happiness.