TECH - SAVVY
THE NEWS LETTER

Jun-Aug, 2015

Department of Computer Science & Engineering

The Department of Computer Science & Engineering was established in the year 2001. It has intake capacity of 120 students. All the laboratories are well established with state of the art equipment. The department has highly qualified and experienced faculty and technical staff. An innovative teaching and learning process is implemented in imparting quality education to the students which includes conduct of workshops, seminars, industrial tours, expert lectures and various extracurricular activities.

PROF. (DR.) B. SRINIVAS VERMA
Principal

To my mind an Educational Institute is not just about four walls with bricks, mortar and concrete, but about building characters, enriching minds and developing confidence towards above motivation. Every effort is pursued to identify the functional gaps between Holy Mary Institute of Technology & Science and the Premier Institutions of the country like IITs and NITs so as to narrow the caps as soon as possible.

PROF. G. CHARLES BABU
HOD-CSE

It gives me immense pleasure to lead the department of Computer Science & Engineering. The aim of the department is to provide high quality education along with training the students with all the new advancements in the computers field. I congratulate the team of faculty members and the students for their brilliant and original efforts. I wish all the students and faculty a great academic career.

From the Editorial Board

The 12th President of India, Dr. Avul Pakir Jainulabdeen **Abdul Kalam**, was born on October 15, 1931 at Dhanushkothi in the temple town Rameshwaram in Tamil Nadu. He was born in the poor family of a boatmaker. But he was an exceptionally brilliant child.

He became the first graduate in the large family when he passed the B.Sc. examination from Saint Joseph College, Thiruchirapalli. The Madras Institute of Technology (MIT) had newly been established in those days. He joined it and thus his whole course of life was changed. He was not interested in going abroad. He wanted to serve his motherland first. As such before becoming President of India, he went abroad only once. That was his visit to NASA in the USA. He says that he thinks his first and foremost duty is to serve his motherland.

His further knowledge in the field got upgraded when he joined Defense Research and Development Organization (DRDO) in 1958 and Indian Space Research Organization (ISRO) in 1963. Today, he is known as the Missile Man of India. The various Indian Missiles of world order like Prithvi, Trishul, Akash, Agni, etc. are mainly the result of his efforts and caliber.He is mainly interested in work. He is a bachelor. He is fond of music and the Koran and the Gita. He is a great lover of people, children in particular. Ever since becoming the head of the Indian State, he has been having interaction with children all over the country.

Department of Computer Science & Engineering

Haritha Haram

On the occasion of Haritha Haram festival Sri A. Vara Prasada Reddy chairman
Mrs. A.Vijay Sarada Reddy Secretary, Holy Trinity Educational Society were enthusiastically involved in planting tree with all other department faculty.
Haritha Haram was formally launched by Telangana Chief Minister Sri K Chandrasekhar Rao.It is a flagship programme of the Telangana Government envisages to increase the present 24% tree cover in the State to 33% of the total geographical area of the State.The thrust areas to achieve the above are two-fold; one, initiatives in notified forest areas, and the other, initiatives in areas outside the notified forest areas.
The first objective is sought to be achieved by a multi-pronged approach of rejuvenating degraded forests, ensuring more effective protection of forests against smuggling, encroachment, fire, grazing and intensive soil and moisture conservation measures following the watershed approach.

Rangoli Competition

All department students got participated in rangoli competition with great zeal and showcased their flair with colorful rangoli at **Holy Mary Group of Technology & science.**

Sports News

Students participated in basketball tournament

Students participated in carom game

Students participated in chess game

Placement and Training

The training and placement officer department conducted mock test and interview for computer science students , provided career counseling to the candidates, helped the candidates in writing resume provided tips on succeeding in the interview,
provided suggestions on how to maintain a good position and suggest vocational courses to the candidates for better job prospects.

Technical Corner

ResilioSync (formerly BitTorrentSync) by Resilio, Inc. is a proprietary peer-to-peer file synchronization tool available for Windows, Mac, Linux, Android, iOS, Windows Phone, Amazon Kindle Fire and BSD. It can sync files between devices on a local network, or between reResilio Sync synchronizes files using BitTorrent.The user's data is stored on the user's local device instead of in a "cloud", therefore requiring at least two user devices, or "nodes," to be online to synchronize files between them. Resilio Sync encrypts data with an Advanced Encryption Standard AES-128 key in counter mode which may either be randomly generated or set by the user. This key is derived from a "secret" which can be shared to other users to share data. Data is sent between devices directly unless the target device is unreachable (e.g. behind a firewall), in which case the data will first be relayed via an intermediary node. Many devices can be connected simultaneously and files shared between them in a mesh networking topology. There is no limit on the amount of data that can be synced, other than the available free space on each device mote devices over the Internet via a modified version of the Bit Torrent protocol
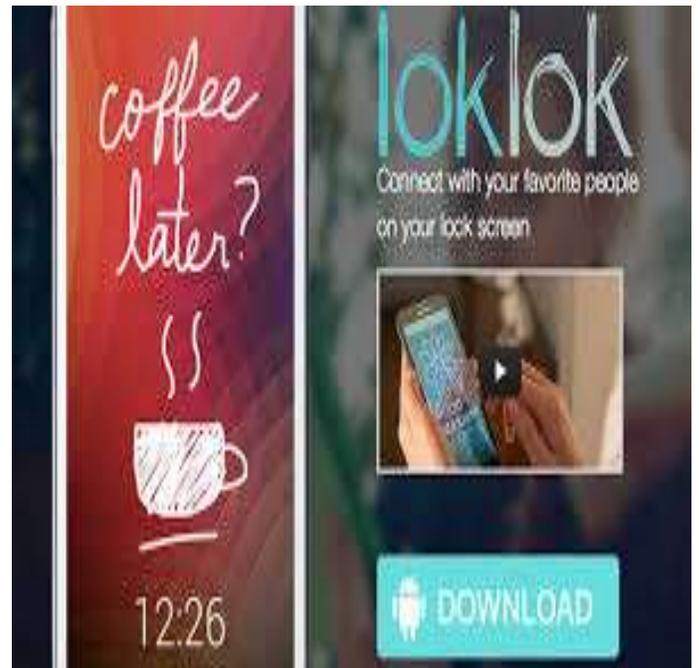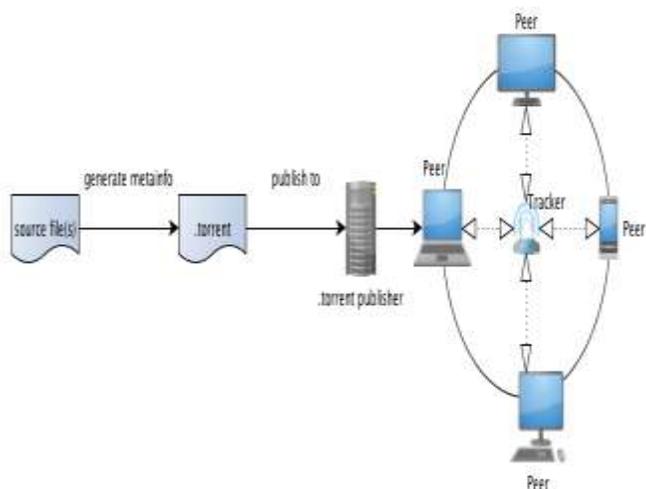
Mobile messaging apps may be reaching both saturation point and convergence, but that doesn't mean there isn't room for more, right? Meet LokLok. LokLok sells itself as a connected lock-screen that is always in-sync with you and your favorite group of people. You can draw, write messages, or add photos to your screen, and it shows up on your friends' screens – all without leaving the lock-screen. This could be a single person, or a whole group. With LokLok set as your lockscreen, you tap twice to make it editable (i.e. you choose to doodle), or swipe up to unlock and use your phone as normal. To draw, you simply use a single finger to make your markings, and to erase you pinch outwards with two fingers. There's a number of editing tools available including one that takes you directly to your camera or camera roll, while the palette option lets you choose your tool, brush-stroke and color. Next up, hit the three-dots at the bottom to share (or invite friends to join) and you're good to go.LokLok is effectively a synchronized whiteboard, making it as easy as possible to share notes, pictures and random doodles with anyone. Without anyone having to unlock their device.

Technical Buzz

A farmer bought a goat, a wolf and a cabbage from the market. On his way home, he has to cross a river. He has a small boat which only allows him to take one thing with him at a time. The farmer cannot leave the cabbage and the goat together (the goat would eat the cabbage) nor can he leave the goat and the wolf together (the wolf would eat the goat). How does he cross the river without losing any of the things he bought?

Answer: Seems easy enough, right? So let's start with the goat. The farmer takes the goat with him and leaves it on the other side of the river. Then he comes back to the side of the river where he left the wolf and cabbage together. He then takes the cabbage with him. When he reaches the other side, he leaves the cabbage and brings the goat back with him. Then he leaves the goat and takes the wolf with him. He then drops the wolf off with the cabbage and finally comes back for the goat. So this way, the farmer avoids leaving the goat and the cabbage or the wolf and the goat together unattended.

There is an alternate solution. The farmer first takes the goat with him and leaves it on the other side. Then he comes back and gets the wolf. He leaves the wolf on the other side, and brings back the goat. Then he leaves the goat and brings the cabbage with him. He then leaves the cabbage with the wolf and comes back to get the goat.

Funny Logical Puzzles

1. A little girl kicks a soccer ball. It goes 10 feet and comes back to her. How is this possible? (**Ever heard of gravity? She kicked it up.**)
2. A 10 foot rope ladder hangs over the side of a boat with the bottom rung on the surface of the water. The rungs are one foot apart, and the tide goes up at the rate of 6 inches per hour. How long will it be until three rungs are covered?(**Never. The boat rises as the tide goes up.**)
3. A is the father of B. But B is not the son of A. How's that possible? (**B is the daughter** you MCP's!)
4. A man dressed in all black is walking down a country lane. Suddenly, a large black car without any lights on comes round the corner and screeches to a halt. How did the car know he was there? (**It was day time.**)
5. A rooster laid an egg on top of the barn roof. Which way did it roll? (**It didn't roll – since when did roosters start laying eggs?**)
6. A truck driver is going down a one way street the wrong way, and passes at least ten cops. Why is he not caught? (**Because he was not driving! He's walking on the sidewalk.**)
7. An electric train is moving north at 100mph and a wind is blowing to the west at 10mph. Which way does the smoke blow? (**There is no smoke with an electric train.**)
8. How can a man go eight days without sleep? (**By sleeping during the night time**)
9. How can you drop a raw egg onto a concrete floor without cracking it? (**The Egg won't crack the concrete floor!**)
10. How can you lift an elephant with one hand? (**It is not a problem, since you will never find an elephant with one hand.**)
11. How much dirt is there in a hole 3 feet deep, 6 ft long and 4 ft wide? (**None, or else it wouldn't be a hole.**)

Vision

To produce technically competent and qualified professionals with cutting edge of research and innovative technology for the benefit of student community in particular and society in large.

Mission

M1: To be a centre of excellence in Technical and Higher Education

M2: To be a centre of excellence in Research

M3: To be a centre of excellence in Support Services

Program Educational Objective

PEO 1:

To prepare the students for entry into successful employment as software engineers in industry, service, consulting and/or government organizations or for advanced study at leading graduate schools in engineering, business, management or other technical or non-technical fields.

PEO 2:

To encourage teamwork skills among the students to design and implement complex software systems, particularly the ability to work with people from other fields in integrated engineering teams and develop the leadership skills for maximizing the performance of those teams.

PEO 3:

To offer a curriculum that encourages students to become broadly educated engineers and to equip with the attitudes and skills to foster learning themselves for life long, an ability to communicate effectively with various audiences and function as responsible member of the global society.

POs AND PSOs of Department

PROGRAMME OUTCOMES

(a) An ability to apply knowledge of mathematics, science and engineering.

(b) An ability to design and conduct experiments, as well as to analyze and interpret data.

(c) An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health & safety, manufacturability and sustainability.

(d) An ability to function on multidisciplinary teams.

(e) An ability to identify, formulates and solve engineering problems.

(f) An understanding of professional and ethical responsibility.

(g) An ability to communicate effectively.

(h) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.

(i) A recognition of the need for and an ability to engage in life-long learning.

(j) A knowledge of contemporary issues.

(k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.