

Vision

To form Engineers with an innovative bent of mind that caters to the ever-changing computing needs of the Industry and to serve the society at large.

Mission Statement

The Department of Computer Science and Engineering is committed to impart outstanding undergraduate education, provide state-of-the-art computing facilities, groom students for high quality research activities, and strengthen partnership with professional and technical societies.

EDUCATIONAL OBJECTIVES**The Computer Science and Engineering program prepares students to attain the following objectives**

1. Graduates will possess a thorough grounding in computing principles and practices and will apply their acquired skills and knowledge to the design and implementation of physical systems, consisting of software and/or hardware components, to meet customer requirements.
2. Graduates will possess an understanding of basic principles of general engineering and apply

this knowledge in analyzing and designing appropriate solutions for real-world problems.

3. Graduates will communicate effectively, work collaboratively and exhibit high levels of professionalism and ethical responsibility by considering the local and global impact of computing on individuals, organizations, and the society.
4. Graduates will have successful careers in the computer engineering field and successfully adapting to new ideas and emerging technologies as the field evolves or will have successfully pursuing or completed their higher studies.

Student's Achievements

The Head of the Department and the faculty members impart knowledge further encourage and motivate students to achieve greater heights. The 2011 batch students have attained four University Ranks. The department congratulates and encourages them to achieve greater heights.

- ♣ Lavanya B-Rank 21
- ♣ Priya M-Rank 28
- ♣ Nandhitha S- Rank 31
- ♣ Monisha A- Rank 45

Achievement in Sports

“It always seems impossible until it is done-Nelson Mandela”.

- ✓ S Lavanya of final year won Third place in the State level Inter University competitions for the game tennis conducted between 17th to 19th of July 2016 by Hindustan University.
- ✓ S Lavanya of final year won First place in the 2nd LICET tournament for the year 2015.
- ✓ S Lavanya of final year and S Saranya of second year won First place for both Singles and Doubles in the 3rd LICET tournament for the year 2016.
- ✓ S Lavanya of final year and S Saranya of second year won Second place in the State level Inter collegiate tennis tournament conducted by SRM University between 23rd and 26th of August 2016.

- ✓ R Rishi Kumar of second year played for U-19 city in the TNCA round robin league.
- ✓ R Rishi Kumar of second year played for the 3rd division in TNCA city league and scored 360 runs in 10 innings and 25 victims (wicket keeper)
- ✓ R Rishi Kumar of second year is playing for the college cricket team which won 2 tournaments and was the runner up in 3 tournaments.
- ✓ R Rishi Kumar of second year represented the Anna university inter zonal for cricket
- ✓ S Saranya of second year won fourth place in the South zone Inter University tennis tournament and represented Anna University.

Placement Record

“Is not about ideas, it's about making ideas HAPPEN”

The present final years (2013-2017 batch) have begun to place their record in the on-campus recruitments.

- ♣ Antony Vivian, S Asween, Depika, Hannah Andrew, Harish, Shalini, Sheeba Roshal got placed in M/S Tech Mahindra on campus interview conducted on 19th August 2016.

e-Yantra Participation

e-Yantra Robotics Competition (eYRC) is a unique annual competition for undergraduate students in Engineering/ Science/ Polytechnic colleges.

About 10 teams participated and one team was selected for the final round.

1. AmithShajan R.
2. Asween R.
3. Agnel Vishal F.
4. Jessie S.

SKANI101X

Making 3d models and 2d art is what I like to do. I love playing video games and developing them which is very exciting. I take this opportunity to express my gratitude to my mentor Prof.S.Nirmala mam, Head of Quality cell, LICET, Chennai who supported me. She advised me to enroll myself in the skani101x program. After joining the skani101x program, I submitted assignments and was recognized by the Course instructor Dr.Sameer Sahasrabudhe, Senior Project Research Scientist, at the Dept. of Computer Science and Engineering, IIT Bombay. My special thanks to him who helped me to not only improve my designing skills but also encouraged me to do well in my curricular activities as well. I was then a part of the Skani101x team as well as a student of the same course which was when I created 3d models and question papers, taught people, moderated the discussion Forum and many more. Skani101x Ended in 15 April, 2016.I successfully completed the course with 99%. After that, Skani101xA started in June,2016 and I was officially added as a team member in the course. We

have started working on the next course

Skani102X which is an advanced course in blender. I am proud to be a part of this team which has helped me to explore more about 3d Animation, how to manage and finish things on time , work as a group, meet different people and more. The only way to do great work is to love what you do.

**-Romey Christo
II Yr, CSE**

Red Hat Corner

The RHCSA- RedHat Certified System Administrator course training was conducted during the even semester of the academic year 2015-16. As open source paves the way for the next generation and is making its way into every possible area, learning to work on such a platform helped me to make myself comfortable with maintenance. Through hands-on labs, we were able to explore fault-tolerant and redundant configurations of Red Hat Enterprise Linux OpenStack Platform, and was also be able to look at the future plans of the OpenStack development community. Taste of Red Hat Training course excerpts, labs, presentations, and Webinars gave us a sample of the expert level of educational content that we would find in a full Red Hat course. We were also given a practical session about the various components used in the cloud computing, and how they are

being used in the industries as well as to set up a cloud infrastructure using Red Hat Enterprise Linux Open Stack Platform. We have also planned to do projects related to cloud computing to have a real time exposure. I thank the college management and staffs for giving us this wonderful opportunity to explore about the Red Hat Open Stack and for gaining new hands-on experience. The Red Hat Certified Open Stack Administrators from our department are, R.M. Depika, Evelin. F. Justus, R. Vinothini, A., Shalini Infanta, R. Saron Sai, J. Rejo, Venkatesh, Prasad, Amarnath, Madhan Kumar, Andrew Nigel

-Evelin F. Justus
IV Yr, CSE

Staff Achievements

“Caterpillars can fly, if they just lighten up”

Four of our department faculty members are pursuing their Ph.D

- ♣ Ms. Sharmila V.J.
Pursuing in Big Data
- ♣ Mr. Arul Suju D.
Pursuing in Web Technology
- ♣ Mr. Sathish B R
Pursuing in Hadoop
- ♣ Mr. Shivashankar R.
Pursuing in Internet Security

Staff Article

OPEN YOLO

It is very exciting to know **Dashlane** is working on a very special open-source project with **Google** to enhance and simplify your security!

Dashlane and Google, along with other leading password managers are collaboratively developing “**Open YOLO**” (*You Only Login Once*)—an open API for App Developers that will give Android apps the ability to access passwords stored in your favourite password manager, and effortlessly and securely log you into those applications!



Dashlane & Google

We know that strong passwords are the first line of defense against harmful data breaches and cyber-attacks. As headlines continue to be flooded with news of colossal data breaches and user passwords sold on the Dark Web, Google has taken notice of the tens of millions of consumers and businesses turning to password managers not only to protect their passwords and personal data but also to perform fast, secure account logins on various devices. To stay one-step ahead of the market demand, Google and Dashlane are helping create a seamless, universally-acceptable Android app authentication solution to increase your online security.

Their Development team believes that open source security projects make it easier for users to protect themselves online by giving them simple security options that work on

a variety of platforms. Dashlane is spearheading the collaboration with other top password management companies, who will contribute their unique security and software development expertise to improve the design and implementation of this open API. We're excited to cooperate on an open solution that puts the user's experience first when they choose how to manage secure logins. This project is the first big towards making security simple and accessible for every user, on every device. In the future, we see this open API going beyond just Android devices, and becoming universally-implemented by apps and password managers across every platform and operating system.

Ultimately, My question is !!! Can you do this without storing the password in CLOUD, if not, then how can we say the password is not public???

- **Mr. Remegius Praveen Sahayaraj L**

Student Articles

"Tell me and I forget. Teach me and I remember. Involve me and I learn."— *Benjamin Franklin*

CAN A COMPUTER GENERATE A TRULY RANDOM NUMBER?

It depends on what you mean by random...

"One thing that traditional computer systems aren't good at is they are deterministic, which means that if you ask the same question you'll get the same answer every time. Such machines are programmed to eliminate randomness in results by following rules and relying on algorithms when they compute.

Typically, a program starts with a common 'seed' number and then follows a pattern. The results may be sufficiently complex to make the pattern difficult to identify, but because it is ruled by a carefully defined algorithm, the numbers it produces are not true random. They are what we call 'pseudo-random' numbers. For most applications, a pseudo-random number is sufficient. For example a CD player in "random" mode is probably really playing in pseudo-random mode, with a pattern that is discernible if you listen carefully enough.

Not all randomness is pseudo, however. There are ways that machines can generate truly random numbers. Devices that generate truly random numbers rely on unpredictable processes like thermal or atmospheric noise rather than human-defined patterns. The results might still be slightly biased towards higher numbers or even numbers, but they're not generated by a deterministic algorithm.—Jason M. Rubin.

Intuitively one would expect generating a random number to be easy but it is not for producing a true random number.

-Balu C. (IV CSE)

HOW DO COMPUTERS PERFORM COMPLEX MATHEMATICAL OPERATIONS?

One small step at a time but very, very quickly)...

Computers perform dazzlingly complex tasks, but the microprocessor chips inside them are only capable of performing very basic mathematical operations, such as adding and comparing binary numbers. Utilizing this limited toolset to perform calculus and other advanced mathematical operations was a signal achievement of the early days of electronic computing.

Complex math requires the handling of two types of operations: numerical ones that involve specific numerical values, and symbolic ones, such as those in algebra and calculus, that involve symbols like “x” and “y.”

Numerical operations can be broken into addition, subtraction, multiplication and division. To accommodate a wider range of numerical values without overwhelming memory and processing resources, computers use the floating-point system. This approach usually produces only an approximation of the result, but with some care it renders values

extremely close to the correct answer. Symbolic operations are a bigger challenge. The first problem is how to represent symbols using only the 0s and 1s available in a binary computer. This is done with coding, where ‘x’ is represented by one number, and ‘y’ by another. The computer hardware and software understands these as codes, rather than numerical values. More complex expressions can be represented via a decomposition of expressions into simpler parts, which are connected by pointers in the computer’s memory.

Other operations, such as integration, can be even more complex, but the basic concept is usually the same: reduce the complex problem into simpler ones, and compute.

-Balu.C(IV CSE)

FAREWELL

The day had come where we had to bid farewell to our seniors. It was very emotional and memorable and was one of the best farewells that ever took place at LICET. The room was decorated with satin and balloons brought in the feeling of farewell time. The program started at 12:30 P.M in the afternoon. All the senior students wore traditional outfits and each one of them looked

unique in their own way. The session started with a prayer by the class advisor of the final year students followed by a video prepared by the third years for the final year students which included their past memories at LICET during their industrial visits, cultural , sports day etc., which they could reminisce for the rest of their lives...followed by the video we had an event called sorry, thank you, miss you where things started getting very emotional .Every person was given a chance to say a thank you, sorry or miss you to anyone they had to say it to. Then we had some games organized for our seniors where they got to know more about each other. Following this there was a musical performance by a third year student accompanied by one of the senior students who was one of the best at music among the 2012 batch. They sang a song which they had performed at the cultural together ,a song that was close to their heart. Then we had the mock awards for Mr and Ms CSE, best attire, best smile and best entertainer. It all ended with a farewell song that was sung by the girls of the third year. The most exciting part of the show was the thrill the senior students had exchanging printed t-shirts with one another with all their names printed on it which was prepared by the third year students. There was a selfie booth at the corner of the room with a farewell backdrop which included

the pictures of all the students of the final year batch with many funky props where they took pictures together. There was also a flex sheet hung up where they wrote their thoughts and signed in their signatures .After all the surprises and entertainment the show finally ended taking pictures with all the professors and students ,and wishing everyone the best for their lives.

-Supriya V.

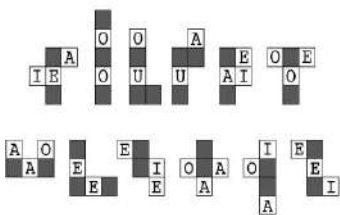
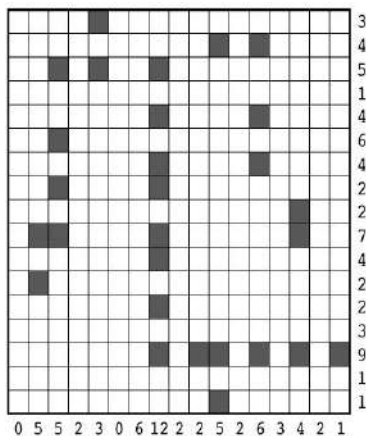
IV Yr, CSE

POLISH PENTOMINO CRISSCROSS

The Tetris Crisscross was an interesting puzzle from 2006 but unfortunately, without any rotation/reflection of the tiles, and with all placement locations given, seemed a bit too easy for its potential. I decided to take this style to another level with a few modifications in this Pentomino Crisscross. Since many USPC's often have a puzzle themed for the WPC host country, I used Polish city names (minus diacriticals) for my word list.

Rules: Place all the listed words into the grid crisscross-style (ignoring spaces) so that no other words are formed. The 12 pentominoes below the grid must also be inserted into the grid with rotation and reflection allowed. Pentominoes can touch, but cannot overlap. The numbers on the right and bottom of the grid indicate

how many pentomino cells belong in that row/column. Notice that the pentominoes contain some shaded squares and some vowels; all of the shaded squares are given in the grid and none belong in words, but all placed vowels from the pentominoes will be used in words.



- BIALA
- BIALYSTOK
- BIELSKO
- BYDGOSZCZ
- CHELM
- CIECHANOW
- CZESTOCHOWA
- ELBLAG
- KALISZ
- KATOWICE
- KRAKOW
- LESZNO
- LODZ
- NOWY SACZ
- OLSZTYN
- OPOLE
- PLOCK
- RZESZOW
- SIEDLCE
- SKIERNIEWICE
- SLUPSK
- SUWALKI
- SWIECIE
- SZCZECIN
- TORUN
- WARSAW
- WROCLAW

"DESTINY IS NOT A MATTER OF CHANCE, IT IS A MATTER OF CHOICE; IT IS NOT A THING TO BE WAITED FOR, IT IS A THING TO BE ACHIEVED"

William Jennings Bryan

**-OshineIdaa P.
(IV Yr, CSE)**

EDITORIAL TEAM

- Hannah Andrew (IV)
- Depika R.M. (IV)
- Harish R. (IV)
- Agnel Vishal (IV)
- Angela Miriam. A (III)
- Nisha Maria Arunkumar(III)
- Joish J. Bosco (III)

FACULTY IN-CHARGE

Ms A Jeevitha, AP/CSE