

# TECHtonic

Department of COMPUTER SCIENCE & ENGINEERING

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Presented By

**PERI**  
INSTITUTE OF TECHNOLOGY



*Mr. Saravanan Periasamy*  
CHAIRMAN

I am proud to have students from Computer Science and Engineering department to come up with such a good collection of information. I would like to encourage them to continue their good work.

*Mr. Sasikumar Veerarajan*  
COO

I congratulate all the students who have put their effort in bringing forth this newsletter of their department and also I like to congratulate all the faculty members and the HOD for motivating their students towards this fulfilment.

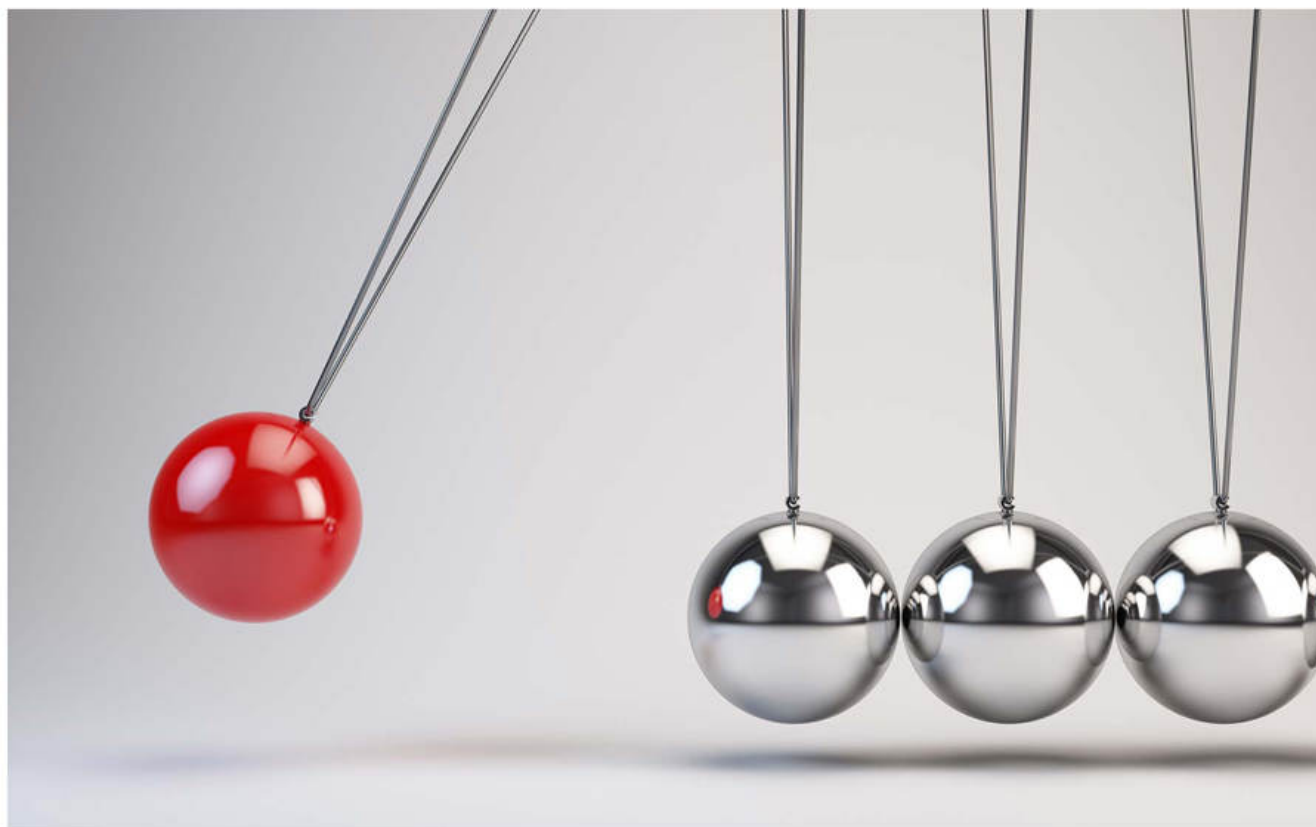


*Dr. R. Palson Kennedy*  
PRINCIPAL

Hearty welcome to the newly launched CSE department's first issue of the news letter for the academic year of 2016-17. It mainly focuses on achievements of the students & faculty members of the department in curricular & co curricular activities, the recent trends in the area of computer Science and Engineering & related areas. "The teachers are the architects of a country". Consequently the true education should extend our vision, widen our horizon and create a meaningful outlook. I congratulate all team members for their constant efforts in launching this NL.

## OUR VISION & MISSION

The goal of Education is to provide intelligence and character. The department of CSE keep this as our vision. Our mission is to provide a perfect platform not only to learn but also to be at the forefront of Technology and also provide an excellent education in computer related fields.



## EVENTS ORGANIZED FOR 2016- 2017

The department always strives to reach the latest technology and advancement in this field to the young learners as well as aspirants by inviting the corporate legends and experienced academicians to enlighten the IT community of our institution. We aim to show the new engineers a bit of the road ahead introduce opportunities available to them and discuss about expectations and core values to enhance the department.

The department of computer science inaugurated its association "GIST" – Global Information and software technocrats on 19th Feb 2012 by Dr.R.Shivaraman, Scientist, Centre for Nano Technology, SRM University . The aim of GIST is to develop leadership and initiative, and to inculcate a sense of responsibility to create a spirit of brotherhood and co-operation, and sharing the knowledge by conducting group discussions, seminars, debates, workshops and paper presentations etc. The Association periodically organizes symposium, conference, guest lectures and Industrial tour for the students to supplement their curriculum.

## SYMPOSIUM

The national level technical symposium “EXPERITZ” was inaugurated by Mr. Stanley George, Vice President and Head HR, Hexaware Technologies Ltd. The one day of EXPERITZ was graced by eminent personalities from various industries.



We were elated in engaging the participants from across the globe for EXPERITZ. More than 350 students were enrolled from various colleges. They participated and bagged medals in a range of events organized by the team of students and faculties of CSE.



## CONFERENCE

A national conference was conducted by the PERI family in collaboration with the CSE department on 7th april 2016 framed "PERISE'16". The national conference was based on Pure Emphatic Research in Science & Engineering.

Dr. T.V. GOPAL, Professor in the department of Computer Science and Engineering, College of Engineering, Guindy, Anna University, Chennai, inaugurated the conference and delivered the inaugural address.



We were delighted in inviting the participants from across the globe for the conference. More than 70 papers were presented by various scholars professors and students. They were further scrutinized and released. The speech by various personalities was of immense value and provided a broad insight on the conversion of engineers into future professionals. It was an eye opener for the upcoming trends especially in the IT industry. The requirements from various fields were elaborated clearly. Various events were organized by our students with their innovative ideas.



## GUEST LECTURE

Guest Lectures from various Institutional and Industrial Experts in the field were organized by the department for a better understanding of the subjects.

# “Effective Learning Methodologies”

An Informative Guest Lecture On “Effective Learning Methodologies” was conducted on 25.7.2016 in the conference hall by Dr.Lakshmi Narasimhan, Professor and Head ,CSE ,North Carolina University,USA.

A major message is that what works best for students is similar to what works best for teachers – an attention to setting challenging learning intentions, being clear about what success means, and an attention to learning strategies for developing conceptual understanding about what teachers and students know and understand.

Part 1 of the lecture looks at methods with negative, or very low effect sizes. Hattie points out that most educational debate is about things which do not really work well. Class size, charter schools, homework.... are in this less effective category.

Part 2 of the lecture outlined some of the most successful methods to promote learning.



## “Database Management Systems”

An effective lecture on “ Database Management Systems” was conducted on 25.7.2016 in the conference hall by Mr.Razik Ahammed , Oracle corporation.

A database management system (DBMS) is a collection of programs that enables you to store, modify, and extract information from a database. There are many different types of database management systems, ranging from small systems that run on personal computers to huge systems that run on mainframes..

The various fields in which DBMS is creating an impact were discussed thoroughly.

## INDUSTRIAL VISIT

The department takes immense effort to take the students to the industries for visits and hands-on trainings in order to provide them an opportunity to understand the practical aspects of the theoretical knowledge they acquire in the classrooms

Department of computer science arranged an industrial visit to “CHIPS Software System” at cochin on 21st sep 2015 for the final year students. Another visit was also organized to “CMC academy (TATA Enterprises)” at chennai on 25th march 2015.



An insight was provided on vast domain experience and advanced skills for employment in IT, Finance and Accounts, Design & Creative, Office Management and several other areas during the visit which turned to be beneficial.

## STAFF ACHIEVEMENT

We take great pride in congratulating our staff members for having produced 90% and above in academics. As we strive for increasing excellence in our teaching and learning we hope that we can build upon these great achievements and continue to ensure that our students have a positive and encouraging learning experience while with us.



Mrs.V.Nirmala receiving cash award of Rs.5000 for producing 94 %result in programming and Data structure paper.

Ms.E.Papitha receiving cash award of Rs.5000 for producing 92% result in Object Oriented Analysis and Design paper





Mrs.J.Ranganayagi receiving cash award of Rs.10000 for producing 100% result in Computer programming paper.

Mrs.P.Kalaiselvi is receiving cash award of Rs.10000 for producing 100% result in computer programming paper.



Ms. N. Sharmila Devi is receiving award for winning Carrom competition conducted during college sports day.

## STUDENT ACHIEVEMENT

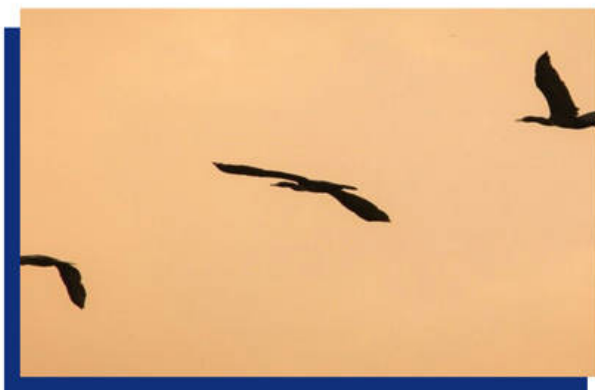
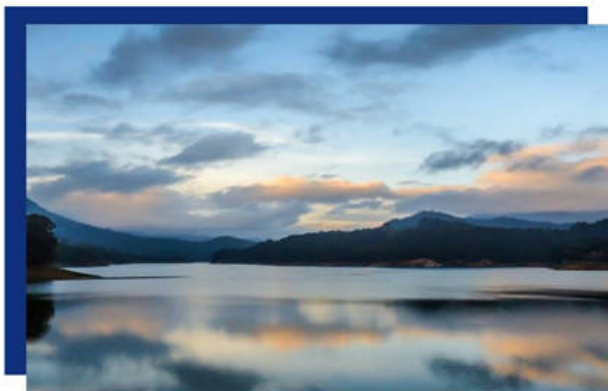
The department likes to recognize students who excel, not only in their studies, but also in a wider variety of ways. Our students have participated and exhibited their talents in various events conducted at different places in and around Chennai, the details are as follows ,

S.NO	STUDENT NAME	YEAR	EVENT PARTICIPATED	VENUE
1	K.DIVYA PRIYA	III YEAR	DEBUGGING, COIN BALANCING	DHANISH AHMED COLLEGE OF ENGG
2	P.ATSHAYA CHELLA SOWPARNIKA	III YEAR	DEBUGGING, COIN BALANCING	DHANISH AHMED COLLEGE OF ENGG
3	CAROLINE D	III YEAR	DEBUGGING, COIN BALANCING	DHANISH AHMED COLLEGE OF ENGG
4	V.K.BHUVANESHWARY	III YEAR	PAPER PRESENTATION	SL JOSEPH'S INSTITUTE OF TECH
5	V.ARUN	III YEAR	PAPER PRESENTATION	SL JOSEPH'S INSTITUTE OF TECH
6	R.VIDDYA	III YEAR	MEME MASTER	MEENAKSHI COLLEGE OF ENGG
7	R.VIDDYA	II YEAR	MINUTE MANIA	MEENAKSHI COLLEGE OF ENGG
8	R.VIDDYA	II YEAR	BLACK JACK	MEENAKSHI COLLEGE OF ENGG
9	R.VIDDYA	II YEAR	TECH TEACH	MEENAKSHI COLLEGE OF ENGG
10	K.MAHIBALA	II YEAR	PHOTO MANICS	UNIVERSITY COLLEGE OF ENGG
11	K.MAHIBALA	II YEAR	ONLINE PHOTOGRAPHY	MNM JAIN ENGG COLLEGE
12	K.MAHIBALA	II YEAR	CAPTURE IT	CHENNAI INSTITUTE OF TECH
13	MARIA ROGER KALVIN	II YEAR	MINUTE MANIA	MEENAKSHI COLLEGE OF ENGG
14	MARIA ROGER KALVIN	II YEAR	UNSCRAMBLE	MEENAKSHI COLLEGE OF ENGG
15	MARIA ROGER KALVIN	II YEAR	TECH TEACH	MEENAKSHI COLLEGE OF ENGG
16	MARIA ROGER KALVIN	II YEAR	NETWORKING AND CODING	MEENAKSHI COLLEGE OF ENGG
17	MARIA ROGER KALVIN	II YEAR	MEME MASTER	MEENAKSHI COLLEGE OF ENGG
18	MARIA ROGER KALVIN	II YEAR	GAMING	MEENAKSHI COLLEGE OF ENGG
19	K.MAHIBALA	III YEAR	SPOT LIGHT	BHARATH UNIVERSITY
20	M.DINESH KUMAR	II YEAR	CODE JAM	ANAND INSTITUTE OF HIGHER TECH
21	M.DINESH KUMAR	II YEAR	RESPAWN	ANAND INSTITUTE OF HIGHER TECH
22	M.DINESH KUMAR	II YEAR	SECONDS SMASH	ANAND INSTITUTE OF HIGHER TECH
23	M.DINESH KUMAR	II YEAR	CONNEXIONS	ANAND INSTITUTE OF HIGHER TECH
24	M.DINESH KUMAR	II YEAR	CARICATURE	ANAND INSTITUTE OF HIGHER TECH
25	PRASHANTH . P	II YEAR	SHARP SENSE	MEENAKSHI COLLEGE OF ENGG
26	PRASHANTH . P	II YEAR	TECH WHIZ	MEENAKSHI COLLEGE OF ENGG
27	PRASHANTH . P	II YEAR	MINUTE MANIA	MEENAKSHI COLLEGE OF ENGG
28	PRASHANTH . P	II YEAR	YOUR PAGE . IN	MEENAKSHI COLLEGE OF ENGG
29	MADHUMITHA	II YEAR	CODING	UNIVERSITY COLLEGE OF ENGG
30	V.HARISH	II YEAR	CODING	UNIVERSITY COLLEGE OF ENGG
31	R.ADARSH	II YEAR	WORKSHOP	UNIVERSITY COLLEGE OF ENGG

Our student Mahibala.K ( III CSE) has participated and proven his peculiar talent in various photography contests and have got remarkable awards .



A glimpse of his award winning photographs are as follows,



Our student Dinesh Kumar. M , Ajay Surve (II CSE), won in Cartcature Event conducted at Anand Institutte of Higher Technology.



Our student Sri Lakshmija of II CSE, won in various Atheletic events conducted at our college sports meet 2017.

Our student Mr.M.Sri Ram of III CSE, receiving certificate of merit in gaming event held at Jeppiaar SRR Engineering College .



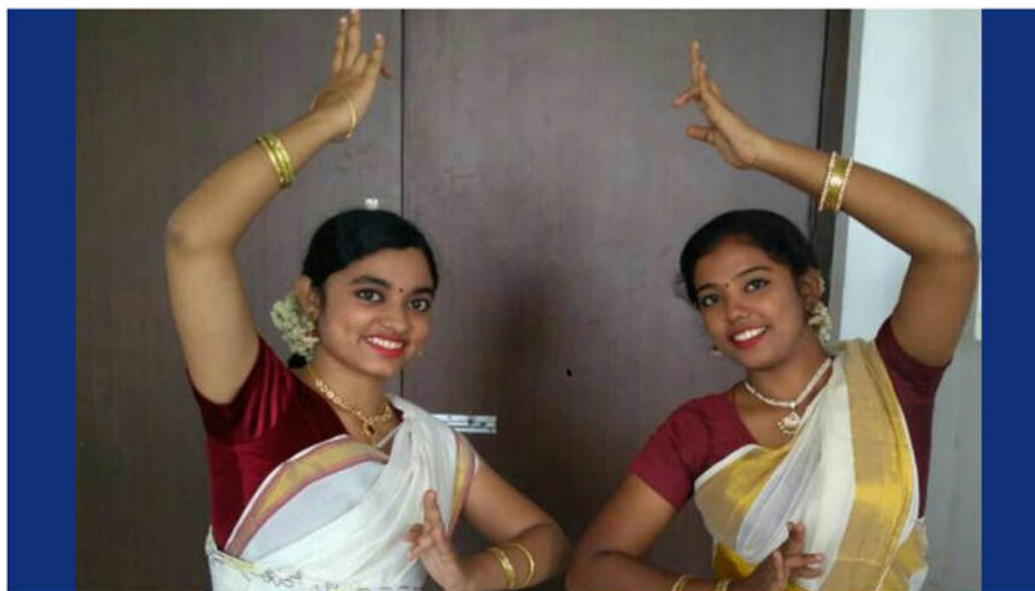
Our III year CSE students Mr.V.Arun and V.K..Bhuvaneshwary are presenting paper in a conference held at st.Joseph's Institute of Technology.



III year CSE students Ms.Atshaya Chella Sowparnika and D.Caroline are appreciated by our principal for their participation in technical events held at Dhanish Ahemed College

## STUDENTS CORNER

Our College cultural programme was organized on 25th February 2017 and the students staged their extraordinary performances , A few of those mesmerizing moment captured.





## STUDENT ARTICLE



Augmented reality is the integration of digital information with the user's environment in real time. Unlike virtual reality, which creates a totally artificial environment, augmented reality uses the existing environment and overlays new information on top of it. Boeing researcher Thomas Caudell coined the term Augmented Reality in 1990, to describe how the head-mounted displays that electricians used when assembling complicated wiring harnesses worked.

Hardware components for augmented reality are: processor, display, sensors and input devices. Various display technologies used in Augmented Reality rendering, includes optical projection systems, monitors, hand held devices, and display systems worn on the human body, Head Mounted Display (HMD), Eyeglasses, Head-Up Display (HUD), Virtual Retinal Display, Contact Lenses, etc.

A key measure of AR systems is how realistically they integrate augmentations with the real world. The Software must derive real world coordinates, independent from the camera, from camera images. The Sixth Sense augmented reality system lets you project a phone pad onto your hand and phone a friend without removing the phone from your pocket. An Example for Augmented Reality by Pranav Mistry from TED. Augmented Reality can be seen through a wide variety of experiences.

We distinguish 3 main categories of Augmented Reality tools. Of Engg.

Augmented Reality 3D viewers, like Augment, allow users to place life-size 3D models in your environment with or without the use of trackers. Trackers are simple images that 3D models can be attached to in Augmented Reality.

Augmented Reality browsers enrich your camera display with contextual information. For example, you can point your smartphone at a building to display its history or estimated value.

One of the first commercial applications of AR technology was the “yellow first down line” that began appearing in televised football games sometime in 1998. Today, Google glass and heads-up displays in car windshields are perhaps the most well-known consumer AR products, but the technology is used in many industries including healthcare, public safety, gas and oil, tourism and marketing.



AR applications for smartphones -Modern mobile computing devices like smartphones and tablet computers contain these elements which often include a camera and MEMS sensors such as accelerometer, GPS, and solid state compass, making them suitable AR platforms..

ARTICLE BY,  
HARISH,  
II CSE.



**“THE TECHNOLOGY YOU USE  
IMPRESSES NO ONE  
THE EXPERIENCE YOU CREATE WITH IT  
IS EVERYTHING”**