CENSIT

INITIATE..........INITIATE
INVOLUTE......... .......... INVOLUTE

INTEGRATE

COMPILED BY
TECHWINGS ASSOCIATION

Department of Computer Science and Engineering
Academic Year-2015-16

CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
EDITORIAL

“Every great and worthy human accomplishment which finds engraved in letters of gold in the pages of history depicting human civilization and progress, was in the first instance sprouted as a mere thought or conceived just as an idea by someone”.

It is the profound sense of gratitude and immense pleasure that we place in the hands of our well-wishers, friends and benefactors, this Year Book. We have always felt as students of this great institution we should always endeavor to make mark in the college’s prestigious history. CENSIT provided us with such an opportunity.

Our modest endeavor to bring out this Year Book this year is born out of enthusiasm to provide the students an opportunity to discover their dormant talents and to give vent to their feelings and imaginations and also exhibit their creativity. This little idea of a magazine became a reality entirely due to the enthusiastic response from the students. The content of this magazine covers a range of topics which are informative, thought provoking, humorous, and imaginative.

The event, the activities shall constantly remind us of the blessings and guidance rendered by our faculty members. We are forever thankful for the support and encouragement of seniors, friends and juniors.

As you turn the pages of this book we hope you relive the same excitement and exhilaration as we felt on the giant roller coaster ride that was CENSIT.

A heartfelt thanks to all the contributors of articles and coordinators and most appropriately all the generous hearts, without whose support, we could not have undertaken this monumental work.

EDITORIAL BOARD
CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
"I am greatly honored to serve the society as President of CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY at Chalapathi Nagar Lam. At CIET, students are trained to become not only efficient Engineers but also good people who render great service to the humanity in all aspects.

As production, software and service industries are shifting to India, our country needs lakhs of Engineers to fulfill the demand. These Engineers need to be creative in thinking, innovative in execution, proficient in oral and written communication, able to work for longer hours effectively in teams, on multi-disciplinary projects.

In fact, these are our core teaching values at our
Dr. P Suresh Babu

Principal

Chalapathi Institute of Engineering and Technology,

Guntur.

MESSAGE

It is great pleasure to note that the Department of Computer Science & Engineering is releasing an Annual Magazine CENSIT which briefs the activities of the association, brings out the hidden talents of the students of CSE.

Teaching & learning process is effective, unparalleled and effectively implemented by the dynamic Head of the Departments with the support of the respective faculty members.

We provide amenities like training for placement, internet, hostel for boys and girls, medical facility, additional training to the hostel students, transport from every corner of the district, canteen and parent interaction cell for continuous information and guidance.

(Dr. P. Suresh Babu)
Dr. K. KIRAN KUMAR

HOD, Dept of CSE,

CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,

GUNTUR.

MESSAGE

It is great pleasure to note that the Department of Computer Science & Engineering is releasing an Annual Magazine CENSIT which briefs the activities of the association, brings out the hidden talents of the students of CSE.

It gives me immense pleasure to lead the department of CSE. The department offers B.Tech CSE and M.Tech CSE. The aim of the department is to provide high quality education along with training the students with all the new advancements in computer science. The excellent infrastructure, the teaching faculty of the best kind of the department institutes quality education

(Dr. K. Kiran Kumar)
CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY was established in the month of June, 2007. The college is affiliated to Acharya Nagarjuna University and recognized by ALL INDIA COUNCIL FOR TECHNICAL EDUCATION (AICTE), New Delhi. It offers four year B.Tech courses in Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering. These courses are started right from the beginning of the college i.e. from 2007. Recently in the year 2009 B.Tech Course in Civil Engineering also started.

From the Academic Year 2012-13 onwards B.Tech course in Mechanical Engineering, an additional intake in B.Tech Computer Science and Engineering and M.Tech courses in Computer Science and Engineering, Electronics and Communication Engineering were introduced.

At this the burning objective of the college is to promote flowery education which is indispensable and useful for the society with professional and ethical values through the divine centres of excellence. Unique in its structure, amazing methods and goals, the college is strongly rooted in a philosophy of training and research that emphasizes the intimate relationship between knowledge and its application and seeks to promote the creation of an ideal society.

It is packed up with green belt, free from pollution and it is very near to the Historical place Amaravati at the banks of river Krishna where Kalachakra was held and this is the place where we got sculptures of Buddha, Situated in Chalapathi Nagar, Lam, Guntur. An ideal place for higher learning, it is just a stone's throw away from the heart of Guntur town. The taught are exposed to congenial atmosphere for diligent academic pursuit in Chalapathi Institute of Engineering and Technology.
ABOUT DEPARTMENT

The commencement of the department of CSE was accomplished in 2007-08 and had successfully integrated the years of excellence and still incomparable. The Department offers B.Tech Program in Computer Science and Engineering with an annual intake of 120 and M.Tech program in Computer Science and Engineering with an annual intake of 18.

The department has strategically gained experienced faculty members who expertise in various subjects makes academic excellence.

The department has engaged in training students towards industry needs with necessary software exposure right from the day of its establishment. The department has acquainted in conducting guest lectures, workshops, student paper presentation and conferences.

The department of CSE encourages students to participate in various extra-curricular activities and competitions held by other universities and colleges within the state and out-side the state. The students also have won laurels to the college by winning prizes in various competitions.

Department of CSE forms an association named CSE TECHWINGS for new environment and changes in students.
Techwings is a student association in the department of CSE. The main objective of the association is to serve the society and to bring out internal talent of the students.

**Vision:** To realize an institute of excellence for engineering and technology and provide world-class education and research opportunities to the students catering the needs of society.

**Mission:** Establishment of a state-of-the-art of engineering institute with continuously improving infrastructures and produce students with innovative skills and global outlook.
Dr. K Kiran Kumar


- Dr. K Kiran Kumar, Associate Professor presented a paper titled “A New Stenographic Algorithm Used to hide text in images” at Conference at NCETCS-2015, Bapatla Engineering College, Bapatla on 1st and 2nd July 2015.

- Dr. K Kiran Kumar, HOD published a paper titled “Leverage your data efficiently: following new trends of information and data security” in International Journal of Applied Engineering Research.

- Dr. K Kiran Kumar, HOD of CSE Department participated in Two day workshop on “Cloud Computing with Big Data” at St. Mary’s Engineering College Guntur on 26th to 27th February 2016.


Mr. P. Subba Rao

- Mr. P. Subba Rao, Associate Professor participated in two day National Level Faculty Development Programme on “Entrepreneurship Development Initiative In India” at JNTUA College of Engineering, Pulivendula on 16th and 17th March 2016.

- Mr. P Subba Rao, Associate Professor participated in “Faculty Development Programme on Advanced Web Technologies” at C-DAC, Hyderabad, from 18th to 27th May 2016.

**Mr. N. Jagajeevan**

- Mr. N Jagajeevan, Assistant Professor presented a paper titled “Designing an Efficient Keyword cover search” in National Conference on Recent Advances in Computer Science and Engineering, at Chalapathi Institute of Engineering and Technology, Guntur, on 30th and 31st Jan 2016.
- Mr. N. Jagajeevan, Assistant Professor participated in two day National Level Faculty Development Programme on “Eneterpreneurship Development Initiative In India” at JNTUA College of Engineering, Pulivendula on 16th and 17th March 2016.
- Mr. N. Jagajeevan Assistant professor of CSE Department participated in Faculty Knowledge Program by IBS ICFAI BUSINESS SCHOOL on 19th August 2015.

**Mr. K. Narendra Kumar**

- Mr. K. Narendra Kumar, Associate Professor, Participated in Workshop on Cryptology at NIT Trichy, from 29th May to 04th June 2016.

**Mr. B. Kiran Kumar**

- Mr. B. Kiran Kumar, Assistant Professor, Participated in Workshop on Cryptology at NIT Trichy, from 29th May to 04th June 2016.

**Mr. G. Ramchandra Rao**

- Mr. G Rama Chandra Rao, Assistant Professor published a paper titled “Social Transfer Cross Domain Transfer Learning from Social Streams for Media Applications” in International Journal of Research, ISSN: 2348-6848 Volume-3 Issue 10 June 2016.
- Mr. G Rama Chandra Rao, Assistant Professor attended Six Day Faculty Development Programme on “Hadoop and Big-Data Analytics” at Chirala Engineering College from 23rd to 28th May 2016.


Mr. J. Bhargav, Assistant Professor presented a paper titled “A Review on Novel Method of Drowsiness Detection System” in National Conference on Recent Advances in Computer Science and Engineering at Chalapathi Institute of Engineering and Technology, Guntur, on 30th and 31st Jan 2016.

Mr. J. Bhargav, Assistant professor participated in Three day FDP on “Big data Analytics” at Gudlavalleru Engineering College on 25th to 27th February 2016.

Mr. B. Babu, Assistant Professor published a paper titled “Data Mining with large amount of Data” in International Journal of Research in Computer Science Engineering, ISSN NO. 2321-0338, vol-5 issue-4 july-aug-2015.

Mr. B. Babu, Assistant Professor published a paper titled “A Novel Approach for mining model to support the drug reviews” in International Journal of Research in Computer Science Engineering, ISSN NO. 2321-0338, vol-5 issue-4 july-aug-2015.

B Babu, Assistant Professor participated in two day National Level Faculty Development Programme on “Eneterpreneurship Development Initiative In India” at JNTUA College of Engineering, Pulivendula on 16th and 17th March 2016.

Mr. B. Babu, Assistant Professor participated in Faculty Development Programme on “Data Structure and Algorithms” at National Institute of Technology, Warangal from 16th to 21st May 2016.

Mr. B Babu, Assistant Professor published a paper titled “Developing An Anomaly Software Agent Collusive Piracy Prevention Scheme in Multichip Wireless Networks” in International Journal of Emerging Technology in Computer Science and Electronics, ISSN NO. 0976-1353, Volume-23 Issue-1 June 2016.

Mr. A. Nagaraju, Assistant professor participated in one day workshop on “Big data and cloud computing” at Chalapathi Institute of Technology on 29th October 2015.

Mr. P Vijay Babu

Mr. P Vijay Babu, Assistant professor participated in one day workshop on “Big data and cloud computing” at Chalapathi Institute of Technology on 29th October 2015.

Mr. K Ramesh Babu

Mr. K Ramesh Babu, Assistant professor participated in one day workshop on “Big data and cloud computing” at Chalapathi Institute of Technology on 29th October 2015.

Ms. G Pavani

Ms G Pavani, Assistant Professor published a paper titled “False positive rule processing for test packet generation” in International Journal of Innovative Technologies, ISSN NO: 2321-8665 vol-3, ISSUE-9 OCT-2015.

Ms. G Pavani, Assistant Professor Participated in Faculty Development Program on “Security Engineering” at C-DAC, Hyderabad from 30th May to 08th June 2016.

Mr. G Bharath Kumar

Mr. G Bharath Kumar, Assistant Professor participated in Faculty Development Programme on “Data Structure and Algorithms” at National Institute of Technology, Warangal from 16th to 21st May 2016.


Mr. G Kishore Babu

Mr. G K Kishore Babu, Assistant Professor, Participated in Workshop on Cryptology at NIT Trichy, from 29th May to 04th June 2016.


Mr. N Srikanth

Mr. N Srikanth, Assistant Professor presented a paper titled “CHARM: A Cost-Efficient Multi-Cloud Data Hosting Scheme with High Availability” in National Conference on Recent Advances in Computer Science and Engineering at Chalapathi Institute of Engineering and Technology, Guntur, on 30th and 31st Jan 2016.
Mr. N Srikanth, Assistant Professor, Participated in Faculty Development Programme on “Advanced web technologies” at C-DAC, Hyderabad from 18th to 27th May 2016.


D Naga Uma Maheswara Rao presented a paper titled “A New Stenographic Algorithm Used To Hide Text In Images” at Conference At NCETCS-2015, Bapatla Engineering College, Bapatla on 1st and 2nd July 2015.

A Sriharsha presented a paper titled “A New Stenographic Algorithm Used To Hide Text In Images” at Conference At NCETCS-2015, Bapatla Engineering College, Bapatla on 1st and 2nd July 2015.

K Navya (Y12CS1231) got 3rd prize in BRAINETIKS conducted at Sri Krishna college of Engineering & Technology, Coimbatore on 17th March 2017.

K Naveen Chowdary (Y12CS1237) got 3rd prize in BRAINETIKS conducted at Sri Krishna college of Engineering & Technology, Coimbatore on 17th March 2017.


TECHWINGS STUDENT ASSOCIATION ACTIVITIES

1) TEACHERS DAY CELEBRATIONS
2) TREE PLANTATION
3) TECHNICAL EVENTS
4) NEW YEAR CELEBRATIONS
5) SPORTS

TECHWINGS ASSOCIATION IS CONDUCTED TREE PLANTATION PROGRAM
TECHWINGS ASSOCIATION IS CONDUCTED TEACHERS DAY
Congratulations to the students those who got placed in campus placement drives

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<th>S.NO</th>
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<td>13</td>
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<td>21</td>
<td>MUKIRI AKHIL SWAROOP</td>
<td>WEST LINE SHIP</td>
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# LIST OF HIGHER EDUCATION STUDENTS:

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This is the name of the computers that are made by Apple Computer. The first Macintosh was introduced in 1984 and was seen as a major innovation in computing ease of use. The Macintosh was the first personal computer to use graphical user interface (GUI), which allowed the user to interact with the operating system by using a mouse to click andrag objects. Since 1984, Apple has continually revised and upgraded the Macintosh product line and now makes both laptop and desktop versions of the Macintosh. The Macintosh product line includes the following models:

- Power Mac—a high performance desktop computer for professionals.
- Power Book—a high performance laptop computer for professionals
- iMac—a creatively designed consumer desktop computer
- iBook—a laptop computer for student and home users
- EMac—an all in one desktop computer for educators and entry-level consumers.
- Mac mini—a super small, fully functional computer sold without a monitor, keyboard or mouse

Apple also makes other equipment such as displays, MP3 players, and Networking hardware, but the Macintosh is the heart and soul of the company. Macintosh computers run the Macintosh operating system, creatively named the “Mac OS”.

A Sriharsha 3/4 CSE
**SUPER COMPUTER**

Black holes are the result of the collapse of giant stars. They cannot be studied using telescopes or other instruments that rely on light waves but by using gravitational waves.

Scientists hope that a new super computer being built by Syracuse University’s department of physics may help them identify the sound of a celestial black hole. SUGAR (SU Gravitational and Relatively Cluster) is a collection of 80 computers, packing 320 CPU’s of power and 640 GB of RAM, 96 terabytes of disk space on which LIGO (Laser Interferometer Gravitational wave Observatory) data is stored.

Before they can isolate the sound of a black hole from LIGO data, the scientists must figure out what a black hole sounds like. That’s where Einstein’s theories come in. For this the scientist brown will use SUGAR and Einstein’s equations to create models of gravitational wave patterns from the collision of two black holes.

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**THE ART OF DIGITAL PERFUME**

To enhance the virtual reality experience add several flavors to it, technology is now targeting your nose and taste items offered by virtual world. Now you can add perfume to your e-mails and also smell the products offered on websites. But how?

**DIG SCENTS, DIG SCENTS, THE SMELL LEADER**

California-base Dig scents Inc. (www.digiscents.com) has developed the smell personal scent synthesizer. This small peripheral device connects through USB port of the PC and has it’s own driver. The device contains a consumable odour cartridge containing 128 primary odours. Digiscents has created thousands of scents based on their chemical structure and their place in scent spectrum. This scent is digitized into instructions to create smell from the primary odour and coded into small files. When you run a scent-enable application or click on scented mails, your smell device will create scent using the coded files embedded in the application.

**CATCH THE TASTE CATCH THE TASTE**

Trisenx’s SENX is small desktop device that gives you smell and also the taste of a flavor. It is similar to dig scent and can print out flavors’ on a foil-like paper. You can lick the paper to get taste of flavor. Since our sense of taste is totally dependent on our sense of smell, the same device can used to generate flavors that can be licked.

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*M. Latha sree 2/4 CSE*
**A MOUSE GETS A 1GB MEMORY**

We can now use of all things your mouse to store up to 1GB of data. Microsoft Hardware recently introduced the Microsoft Mobile Memory Mouse 8000. The all-in-one transceiver offers a wireless freedom combined with 1GB of Flash memory. The mouse comes with a magnetic connection for easy recharging, and can be charged using USB transceiver, while you work. Its features include an advanced magnifier button, and it is engineered for fast, comfortable, and precise gaming action. The wireless signal can get to your PC from up to 30 feet (9 meters) away, and scrolling system allows you to scroll from side as well as up and down. Its cost is Rs.61

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**L Chiranjeevi**  
2/4 CSE

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**IMAGE TRACKING MOUSE**

The image tracking mouse system can be developed to provide computer access for people who are not able to move their hands. The system tracks the computer user’s movements with a USB web camera and translates them into the movements of the mouse pointer on the screen. Body features such as the tip of the user’s nose or finger can be tracked. The visual tracking algorithm is based cropping an online template of the tracked feature from the current image frame testing where this template correlates in the subsequent frame. User tracking algorithm moves the mouse pointer to the corresponding location on the screen. Various body features can be tested for tracking robustness and user convenience. Here we finally use nose as the tracking feature and use the blink of eyes as the clicking feature of the mouse.

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**P Vijay Babu.**  
Assistant Professor.
**ATTENTIVE TOYS**

We describe a multimodal attentive environment system that performs joint audio-visual information processing to enable it to interact intelligently with people. It pays attention to people and attend to people needs using visual and audio sensors. It integrates real-time video and audio processing techniques to detect and track multiple people in the scene, and speech recognition and eye contact to develop a communication interface with them in a natural way that human uses.

It has been implemented as a visually interactive toy robot (VTOYS) and was demonstrated successfully too many people in different age class to explore new ways.

on human-machine interactions and this interfaces on how people interact with machines when machines have some ability to perceive around them. It allowed testing interactive strategies between human and attentive devices. The rapid embedding of computers in the human environment is being made more human friendly by adding visually interactive capabilities both at the level of perceptual understanding of human body and facial movements, and the human reaction to robotic emulation of human traits.

K Ramesh Babu.
Assistant Professor.

**HOW INTERNET SEARCH ENGINES WORK**

The good news about the Internet and its most visible component, the World Wide Web, is that there are hundreds of millions of pages available, waiting to present information on an amazing variety of topics. The bad news about the Internet is that there are hundreds of millions of pages available, most of them titled according to the whim of their author, almost all of them sitting on servers with cryptic names. When you need to know about a particular subject, how do you know which pages to read? If you're like most people, you visit an Internet search engine.

Internet search engines are special sites on the Web that are designed to help people find information stored on other sites. There are differences in the ways various search engines work, but they all perform three basic tasks:

- They search the Internet or select pieces of the Internet based on important words.
- They keep an index of the words they find, and where they find them.
- They allow users to look for words or combinations of words found in that index.
Early search engines held an index of a few hundred thousand pages and documents, and received maybe one or two thousand inquiries each day. Today, a top search engine will index hundreds of millions of pages, and respond to tens of millions of queries per day.

Ch Sai Sudha
Assistant Professor.

**COOPERATIVE LINUX**

Employing the novel idea of a co-operative virtual machine (CVM) cooperative linux or colinx can support the kernel of both the Microsoft windows and the linux, to run parallel on the same machine. Unlike in the traditional VMs where every guest is in the unprivileged mode to control the real machine also where the resources are virtualized for every OS, the CVM gives both the OSs complete control of the host machine. Since the system hardware of today is not compatible to deal with two different operating systems at a time, the word co-operative used to denote two bodies working in parallel would only theoretically suit the whole idea. So, although each of the kernels has its own complete CPU context and address space, and can also make a decision when to give control back to its associate what really happens is that the host kernel is left in control of the real hardware and the guest kernel that has some special drivers can communicate with the host and provide various important devices to the guest OS.

J Bhargav.
Assistant Professor.
A successful man is one who makes more money than his wife can spend. A successful woman is one who can find such a man.

K. SRIVANI
IV/IV B.Tech

Boss comes up to an employee:
Yesterday you did a great job - in one day you managed to do as much work, as you did in previous month!
Thanks boss, that's because Face book was shut down for the whole day.

K. MOUNIKA
IV/IVB.Tech

A husband asks his very ill wife at the hospital:
Tell me what is your last wish?
Nothing more, I just want to check my status on Face book.

D. Venkatesh
IV/IV B.TECH
FACULTY MEMBERS

J. BHARGAV
P. VIJAY BABU
K. RAMESH BABU
N. SRIKANTH

STUDENT MEMBERS

T. VARSHITH III/IV-CSE
K. NAVEEN CHOWDARY IV/IV-CSE
A. SUSmithA IV/IV-CSE
N. BHAVANA IV/IV-CSE