

NEWS LETTER

Volume 4

Issue 5



Nothing Succeeds than Success...

This month has been a special one for our Department because we were made proud by our student, Ms Anusree . She had secured **first place** in the Kannur University M.Tech results declared on November 2016. With perseverance and enthusiasm, success was a definite result. Brad Henry has said “A good teacher can inspire hope, ignite the imagination, and instill a love of learning”. I hope that at least some of us have done their part in inspiring you , Ms Anusree. Hearty congratulations.



iDUP-A New Stepping stone....

iOS Developer University Program (iDUP) is a program for accredited, degree granting, higher education institutions planning to incorporate iOS development into their curriculum to teach iOS app development courses using iOS SDK and other Apple technologies. Students will be benefited by budding entrepreneurs on App development, live final year projects that can be done in-house, industrial-ready talented students etc. As an initial stage, an official meeting with Mr. K.N.Jayapraksh, Managing Director and Mr. Arun A. V., Director of CDNS Technology India Pvt. Ltd. and Mr.Sooraj.N, Account Manager, Denave India Pvt. Ltd. along with Fr. Dr. Thomas Melvettath (Chairman), Dr. Benny Joseph (Principal) and Mr. Manoj Thomas (HoD of CSE) was held on 20th September 2016 regarding how to take up iDUP program at campus . A one day workshop was held at our campus by Mr.Noor Mohameed Jeelani, Apple Certified Technical Trainer, Mr. K.N.Jayapraksh, Mr. Arun A. V., and Mr.Sooraj.N regarding Apple Introduction, Why iOS, Apple Approach and contribution, Apple in Education – iOS Development University Program (iDUP), iDUP - Benefits to the Institution / students and Job opportuni-



...Page 4

VIMAL JYOTHI Engineering College

Department of Computer science and Engineering

Bi-monthly News Letter
December , 2016

VISION

To contribute to the society through excellence in scientific and knowledge-based education utilizing the potential of computer science and engineering with a deep passion for wisdom, culture and values.

MISSION

To promote all-round growth of an individual by creating futuristic environment that fosters critical thinking, dynamism and innovation to transform them into globally competitive professionals.

To undertake collaborative projects which offer opportunities for long-term interaction with academia and industry.

To develop human potential to its fullest extent so that intellectually capable and optimistic leaders can emerge in a range of professions.

Page Article

2 Welcome New Faculty

2 Printable Electronics

3 New Threat for the Cashless Era



Merry Christmas!

HAppy New Year
2017



Welcome to new faculty

Yes, with due respect and heart full of love we welcome, Ms.Anisha, to boost our team and to attain Zenith with their distinguished capabilities.

Ms. Anisha has pursued her B.Tech Degree from College of Engineering Trikarippur in the year 2012 and M.Tech in the branch of CSE in the year 2015 from Govt. Engineering College, Trivandrum under Kerala University. Her Area of interest includes digital Image Processing and Cyber Securtiy . It's worth mentioning as this is a great achievement as far a person is considered.



Congratulations

Department of CSE Congratulates Mr. Amal, S1 CSE for his attainment of Second Prize in the Quiz competition conducted in relating with IEEE Day 2016 celebrations Organized by the IEEE SB

Department of CSE Congratulates Mr. Nijal Jacob , S7 CSE , for being placed in SLK Software Ltd. Chennai which is subsidiary of Kirlosker India , The Interview was conducted at Vidya Academy of Science &Technology -Thrissur .



BEAUTIFUL MOMENTS OF TODAY ARE SWEET MEMORIES OF TOMORROW

A scream of happiness was burst out on 6th OCT 2016, from VJEC campus when we the third-year students started our Industrial Visit to Mysore. A three day programme was planned which includes, visit to industry “Aniframes Technology, Mysore” and educational leisure trip to Hogenakkel and Kodaikanal. The group constituted 44 students accompanied by our department teachers Mr. Sunder V, Mr. Anoop Jose, Mrs. Neena V V, and Mrs.Vidhya S S. Various animation tools demonstrated by Mr. Reddy of “Aniframe Technology” made everyone surprised and interesting. He also explored the scope in the field of animation and sow the seeds of interest of this field in our heart. The art of sharing and sweet essence of love and friendship in the college life was enjoyed by all of us, which was evident from each and every one of our face and activities throughout the tour. Care, love and affection for their fellow friends at many places such as Hogenakkel, suicide points etc strengthened our bond of friendship. At the end of day, with sweet memories in our heart and a collection of more cherished moments we signed out with the promise of maintaining this sweet friendship forever. As the quoting goes “Life bring tears, smiles and memories. Tears dry, the smiles fade, but the memories last forever” – let this friendship and sweet moments stay ever.

Mr. Joe C Jose S5 CSE



PRINTABLE ELECTRONICS

Engineers at MIT have invented a fast, precise printing process that may make such electronic surfaces an inexpensive reality. In a paper published today in Science Advances, the researchers report that they have fabricated a stamp made from forests of carbon nanotubes that is able to print electronic inks onto rigid and flexible surfaces. The

... Page 3



Student Corner





NEW THREAT FOR THE CASHLESS ERA

In the age of “cash not present” transactions online payment sounds like the one word answer for keeping our money safe and going cashless. But the online transaction arena might have unwittingly made our money more vulnerable. Research published in the academic journal IEEE SECURITY AND

PRIVACY says that there is a so called **Distributed Guessing** attack that is able to circumvent all security features of online payment. The research shows that it takes as little as six seconds of guesswork for the hackers to work out our personal credit/debit card details. The two factors that generate unlimited guessing options are that, the current online systems do not detect multiple invalid payment requests from different websites and different websites ask for different validation details that is, various combinations of Card number + Expiry date + CVV. Different variations of card details like the above three are generated and send out to numerous websites for validation, the reply to the transactions will let them know if the guess was right. However it was found that it was only the VISA network that is vulnerable. But the worst part is that there is no particular way to keep our money safe. Experts say that right now we can only minimize the impact by simple steps like, using only one card for online payments and keeping a low spending limit on that account. And vigilantly checking our balance regularly and watching out for odd payments.



From Page 2...

PRINTABLE ELECTRONICS

Next time when you place your coffee order, imagine slapping onto your to-go cup a sticker that acts as an electronic decal, letting you know the precise temperature of your cappuccino. Someday, the high-tech stamping that produces such a sticker might also bring us food packaging that displays a digital countdown to warn of spoiling produce, or even a window pane that shows the day’s forecast, based on measurements of the weather conditions outside.

To scale up the process, Dhanushkodi Mariappan, graduate students in mechanical engineering, MIT together with Sanha Kim a Post doc at MIT built a printing machine, including a motorized roller, and attached to it various flexible substrates. The researchers fixed each stamp onto a platform attached to a spring, which they used to control the force used to press the stamp against the substrate. This research was supported, in part, by the National Science Foundation and the MIT Energy Initiative.

Mr Pranav C—S7 CSE

Ms. Aparna — S5 CSE

PEO’s of Department

- I. Graduates will achieve broad and in-depth knowledge of Computer Science and Engineering relating to industrial practices and research to analyze the practical problems and think creatively to generate innovative solutions using appropriate technologies.
- II. Graduates will make valid judgment, synthesize information from a range of sources and communicate them in sound ways appropriate to their discipline.
- III. Graduates will sustain intellectual curiosity and pursue lifelong learning not only in areas that are relevant to Computer Science, but also that are important to society.
- IV. Graduates will adapt to different roles and demonstrate leaderships in global working environment by respecting diversity, professionalism and ethical practices.



Inside the Department

- Three of our Faculty Members Ms Divya B , Ms. Neena VV and Mr. Jilson P Jose attended five day a hands-on workshop on Android Application Development at GEC Kannur from 7 to 11 November 2016.
- Our Faculty Members Mr. Rahul AjithKumar and Mr. Akhil Paulose M attended a workshop on Free and Opensource Softwares at CAPE Vadakara from _____ to _____ Novmber 2016



Paper Publication

- **Dr. Chandrasekar, V.** and Mahalakshmi M “End to End Delay Improvement in Heterogeneous Multicast using Fuzzy Genetic Approach” Institute of Integrative Omics and Applied Biotechnology” IIOAB Vol.7, No.9, pp 535-541,2016.

From Page 1

POs and PSOs of Department

UDP.: New Beginning

ties / Startups etc. on 16th November 2016 for faculty of CSE and M.Tech students. Further iDUP training program, the commercials, setting of iDUP lab and registering college for iDUP program was finalized on 06th December 2016 and the meeting members were Mr. K.N.Jayapraksh, Mr. Sanjeev Jorapur and a trainer along with dignitaries from management, principal and HoD of CSE.

Editorial Board

Staff Support:

Mr. Sunder V
Mr. Midhun TP
Mr. Anisha Joseph
Ms. Derroll David
Students Corner
Ms. Aparna M

Engineering Graduates will be able to:

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering Fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

1. An ability to apply development principles to analyze and design complex software and systems containing hardware and software components of varying complexity.
2. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the trade-offs involved in design choices.