STUDENT ACHIEVEMENTS/ FACULTY PUBLICATION/ FDP

PRIZE WINNING ARTICLE - ACM CONTEST

RED HAT CERTIFIED FACULTY AND STUDENTS

CAMPUS PLACEMENT

ESPERANZA

NEWSLETTER

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

From The HODs Desk

Where there is teamwork and collaboration wonderful things can happen. The Department of CSE is blessed to have a group of teaching and non-teaching staff, whose selfless work paved the way for the progress and growth of the Department. This same spirit of unity should persist in the coming NBA reaccreditation process and we hope to come through with flying colours. As the current semester is coming to an end, I extend my heartfelt gratitude to all faculty and students who have contributed to the department's growth and to one's own individual growth. It is heartening to note that a considerable number of our final year students, acquired jobs in leading MNCs such as TCS, CTS, MindTree, WIPRO etc. I also congratulate Ms. Bhagya Girish (2014-2018 Batch) for securing Third Rank in Kannur University B.Tech Examination.

Best Wishes to all my students who are writing the KTU University exams of this semester.

As Christmas and New Year are round the corner, I wish all faculty and students a *"Merry Xmas and Happy New Year"* in advance.

Dr. Manoj V. Thomas
Professor & HOD, CSE

VIMAL JYOTHI ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BIMONTHLY NEWSLETTER

DECEMBER 2019

VISION

To contribute to the society through excellence in scientific and knowledge-based education utilising 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.

"The harder you work for something, the greater you'll feel when you achieve it"

Ms. Bagya Girish
Third Rank
Kannur University

Ms. Sincy Varghese
Outstanding Performance Award

Faculty Publications

Dr. Manoj V. Thomas published a paper on "iSee : Artificial Intelligence based android application for visually impaired people", at Second International Conference on Innovative and Advanced multidisciplinary Research, held on 12-13/10/2019 at Park Avenue Convention Centre, Singapore.

Faculty Development Program

- *Ms Ancy K. Sunny and Mr. Sibi Joseph attended five day FDP on "Natural Language Processing using Python" at Government College of Engineering, Kannur from 14/10/2019 to 19/10/2019.*
- *Ms Achala Prasad attended five day FDP on "Robotics" at Model Finishing School, Trivandrum Sponsored by AICTE from 27/11/2019 to 1/12/2019.*

Kerala Catholic Council Meet 2019

- *Dr. Manoj V. Thomas attended the General Body Meeting of the Kerala Catholic Council at POC, Kochi on 4/12/2019.*

At the 'Edge' of the Future

FIRST

Prize Winning Article

ACM WRITE-A-THON CONTEST

At the 'Edge' of the Future

Written by Uvais Hassan (SI CSE A)

"The future is bright" - these must be the group of words anyone from anywhere related to Computer Science disciple have heard the most in their life. Abacus is told to be the first computer device, but Analytical and Differential engines changed the way the world think about these magical machines. Since then, it has been a journey of the steepest climbs and peaks, but with no gravitational pull to slow it down.

Today the world, be it any department or scope of life, thank the computers for what they have become today. Technology has been evolving exponentially since the first days. Any new technology becomes obsolete within just a few weeks. Such has been the competence in the field.

Artificial Intelligence, the concept that was said to be destined to revolutionise the way machines work for us and effectively change the way world works, started turning more and more heads toward Computer Science field. Realising that its probable applications are essentially limitless, investments began pouring in for better research, both in money and mind power. The world started feeling the difference this brought and started benefitting from it.

The concept of Artificial Intelligence or AI was made more feasible with the application of Machine Learning – popularly known as ML – to train the models. This brought a rapid change in efficiency and performance of AI concept in real-life applications. Image and voice recognition tools are evolving at a scary rate. Banks are deploying smarter algorithms every day to detect fraudulent activities. Piece of codes fed with huge chunks of data can predict a heart attack now. The news like DeepMind AI beating chess world champions, AI dominating over champions in competitive games like Dota are proofs for the fact that ML brought an unprecedented influence even in fields like sports and entertainment.

The latest celebrity term in the society is 'Edge AI'. The idea is to produce efficient equipments or devices that can do the processes and provide services without relying on distant or 'cloud' servers. This enables quicker and more efficient implementation of Internet of Things (IoT) devices. IoT catalysed the smartening of the world. It helped connect more and more devices and services together, progressing a step towards a not-too-distant future where everything and everyone is connected to each other, like in some sci-fi movies of today

Experts began realising the importance of higher bandwidths and low latencies, even though modern machines offered crazy performances. This led to the thinking that IoT devices can deliver better results if it could stop depending too much on cloud servers, which happened due to the adoption of cloud computing technologies by almost everybody in the field. Thus, 'edge AI' started becoming popular. Sophisticated smart devices like health monitors can now output results rapidly due to local computation, which can sometimes the difference between a person's life and death. Low latencies became much more lower. Computation speeds hit an even higher rate. The market for IoT devices started expanding rapidly and is now predicting a crazy amount of growth in the near future. Because the applications are endless, more and more creative uses started to be implemented by geniuses all over the world.

As of now, as much as I hate to repeat it, the future is really bright for a young student or entrepreneur. Success will only be limited by our imagination. Every single advancement in modern technology is reaping huge benefits for the end user. This is really an exciting time to live in.

Red Hat CERTIFICATION

Congratulations

Ashik S N
(VML16CS019)

Kavya Rajeev E
(VML16CS040)

Dhanya Sudhakaran
(VML17CS029)

Ms. Ancy K.Sunny
(Assistant Professor)

Merin John
(VML16CS046)

Kavya Rajeev E
(VML16CS040)

Mr. Ajvad Haneef
(Assistant Professor)

Harshin Ramesh
(VML16CS033)

Akash Augustine K
(VML16CS007)

Varada M V
(VML16CS056)

We are extremely proud to announce that two of our faculty members and seven students of our department cleared the Red Hat Certified System Administrator (RHCSA). Mr. Jilson P. Jose, Assistant Professor, CSE was the course instructor.

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S7 CSE

Cognizant


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ARUNIMA PRADEEP


JUHI KRISHNA


VARADA M V

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TATA CONSULTANCY SERVICES


GOKUL K


APARNA UDAYAKUMAR


JUHI KRISHNA


VARADA M V

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Mindtree


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BINDYA RAJEEV


DHARSANA NARAYANAN P.

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CONGRATULATIONS

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2020 PLACEMENT
S7 CSE


AADARSH UNNI WILSON


AJAY JOY


AMAL


ATHULYA MARIA BABU


AKSHAY T


MALAVIKA MURALIDHARAN

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DHARSANA NARAYANAN


MIDHUN DEVASIA


BINDYA RAJEEV


WISSAM


AADARSH UNNI WILSON


MERIN JOHN

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2020 PLACEMENT
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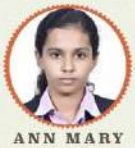
NIRMAL SUDHARMAN


FARHANA MOHAMMED ALI


ANN MARY GEORGE


MALAVIKA MURALIDHARAN


ATHULYA MARIA BABU


WISSAM SALIH ABDULLA


AKASH AUGUSTINE


ASHLIN K WILSON

ACM WRITE - A - THON CONTEST

Mr. Uvais Hassan(S1 CSE B

Ms. Aleena Joseph(S5 CSE)

Ms. Kavya Padmanabhan(S7 CSE)

One Day Workshop on R for Teacher

Dr. Jeethu. V. Devasia organised “One Day Workshop on R for Teacher” on 09/11/2019 in association with IIT Bombay. Participants were faculty from SNGC,Kannur and Vimal Jyothi Engineering.

BID FAREWELL






"Your Smile is the Greatest Gift of All"

Mr. Jilson P. Jose after his 8 years of service in the department had bid farewell to aspire his dream to become a "Software Trainer". In this occasion we the Department of CSE wish him All Success and Happiness in his new venture. The selfless work you rendered for the department will be remembered forever.

We Will Miss You Sir...

POs and PSOs of Department

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 analyse 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 modelling and design of computer - based systems in a way that demonstrates comprehension of the trade-offs involved in design choices.

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STUDENT EDITOR : Mr. ARJUN GOVINDAN & Ms.VARADA(S7 CSE)