Department of Computer Science & Engineering

OUR VISION

Creating eminent and ethical leaders in the domain of Computational Sciences through quality professional education with a focus on holistic learning and excellence.

OUR MISSION

- To create technically competent and ethically conscious graduates in the field of Computer Science and Engineering by encouraging holistic learning and excellence.

- To prepare students for careers in Industry, Academia and the Government.

- To instill Entrepreneurial Orientation and research motivation among the students of the department.

- To emerge as a leader in education in the region by encouraging teaching, learning, industry and societal connect.

PROGRAMME OUTCOMES (POs)

Students in the programme at the time of their graduation are expected to possess the following capabilities :

1. Ability to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Ability to Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Ability to 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. Ability to 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. Ability to 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. Ability to 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. Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

10. Ability to 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. Ability to 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. Ability to recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

- The graduates shall have sound knowledge of Mathematics, Science, Engineering and Management to be able to offer practical software and hardware solutions for the problems of industry and society at large.

- The graduates shall be able to establish themselves as practicing professionals, researchers or Entrepreneurs in computer science or allied areas and shall also be able to pursue higher education in reputed institutes.

- The graduates shall be able to communicate effectively and work in multidisciplinary teams with team spirit demonstrating value driven and ethical leadership.

ACHIEVEMENTS

Fr. Dr. A K George, Professor (CS) and **Dr. C K Raju** visited **Asian Institute of Technology**, Thailand from 29/5/2017 to 3/6/2017.

Ms. Seenia Francis, completed 3 day workshop on "Cloud Computing" at LiveWire Thrissur from 20/5/2017 to 21/5/2017.

Ms. Sobha Xavier, **Ms. Jisna V A** and **Ms. Snitha Thomas** attended 5 day FDP on "**Building Private Cloud using Free Software Tool**" at GEC Thrissur from 20/6/2017 to 24/6/2017.

Ms. Seenia Francis, **Ms. Diana Davis**, **Ms. Sobha Xavier**, **Ms. Jisna V A** completed a MOOC on "**SQL and XML**" from Stanford Online Lagunita University.

Ms. Ninu Francis cleared KTU PhD entrance eligibility exam.

In tier 2 and tier 3 PMS awards of 2017 secured **Ms. Jyothis T S, Ms. Aswathy Wilson, Ms. Diana Davis, Mr. Anil Antony and Ms. Divya M Menon**.

Ms. Aswathy Wilson completed MOOC on "**Machine Learning- Dimensionality Reduction**" and "**Predictive Modelling Fundamentals I**" from Cognitive Class.

Ms. Seenia Francis completed MOOC on "**SQL**" from Stanford Online.

Ms. Jyothis T S completed MOOC on "**Diploma in Computer Networking**" from Alison Certification.

Mr Aneesh Chandran received D License coach of All India Football Federation.

Ms. Aswathy Wilson, Mr. Aneesh Chandran, Ms. Seenia Francis, Ms. Swapna B Sasi attended 2 day FDP on "**Network Programming Lab**" at FISAT from 13/12/2017 to 14/12//2017.

Ms.Ninu Francis, Ms. Reshma K V attended 2 day FDP on "**Web Technologies : An Industrial Perspective**" at Muthoot Institute of Technology and Science from 15/12/2017 to 16/12//2017.

Mr. Anil Antony, Mr. Aneesh Chandran attended 3 day FDP on "**Arduino for Automation**" at Govt. Engineering College from 28/11/2017 to 01/12//2017.

Mr. Anil Antony, Mr Shaiju Paul, Mr. Dany Varghese attended 5 day FDP on "**Machine Learning**" at CET from 18/12/2017 to 22/12//2017.

Mr. Anil Antony attended 2 day FDP on "**Design Thinking**" at Sahrdaya Engineering College from 28/12/2017 to 29/12//2017.

Dr. C K Raju and **Dr. Fr. A K George** attended 5 day FDP on "**Deep Learning for Visual Computing**" at Siksha 'O' Anusandhan from 19/12/2017 to 23/12//2017.

Ms. Sobha Xavier and **Ms. Jisna V A** attended 6 day FDP on "**Design and Analysis of Algorithms**" at Sahrdaya Engineering College from 27/11/2017 to 02/12//2017.

Congratulations!

JISNA V. A.
12-12-1987

Ms. Jisna V A, Assistant Professor, CSE got admission for PHD at NIT Calicut.

TECH-BYTE:-

A block chain is, in the simplest of terms, a time-stamped series of immutable record of data that is managed by cluster of computers not owned by any single entity. Each of these blocks of data (i.e. block) are secured and bound to each other using cryptographic

ACHIEVEMENTS

Ms. Fraceena Francis of CSE B(2013-2017 batch) secured first position in S7 Results with 8.16.

Ms. Sona S of CSE B(2013-2017 batch) secured first position in S7 Results with 8.27.

Ms. RESHMA T P of S5 CSE B(2015-2019 batch) secured first position in S4 Results with 9.24.

Ms. Anju Maria K B of S5 CSE A (2015-2019 batch) secured first position in S4 Results with 8.52.

Ms. Fraceena Francis of CSE B(2013-2017 batch) secured first position in S8 Results with 9.27.

Ms. LUFIYA GEORGE.C of CSE B(2013-2017 batch) secured first position in S8 Results with 9.0.

Aiswarya Karunan of S7 CSE B and **Athira Lalmon** of S7 CSE A got scholarship to attend the **Grace Hopper Celebration of Women in Computing India(GHCI).**

Project titled **"Design of Integrated speed tracking and toll management system for express highways"** by **Allen Francis, Gautham, Anju and Keerthana** of S7 CSE A under the guidance of **Ms. Divya M Menon** selected for Yuva Mastermind.

Mr. Allen Francis of S7 CSE A was selected as College Union Chairman of the academic year 2017-18. **Mr. Amal Prem K P** of S5 CSE A was selected as College Magazine Editor of the academic year 2017-18. **Ms. Hima Haridas** of S3 MTech was selected as 2 nd Year PG Representative.

Edwin Lingson of S7 CSE A, Lippin Pius, Susmitha Sunny of S7 CSE B got placed in IBS.

Surya R , Noel Vincent and Vishnu K of S5 CSE B got 2 nd prize for Ibeto grand finale conducted by Govt. Model Engineering College , Thrikkakara.

Philip Roy, Rony, Deepak, Leon of S7 CSE B got 5 th position in the event **" The best Management team The Wolfpack "**held at Rajagiri.

Project entitled **'Agni'** of S3 CSE B **students, Shijith M S, N Rahul, Roy Eluvathingal, Mathews, Tenwin** has provisionally approved for financial assistance under INNOVATE scheme of KSCSTE 2018 under the guidance of Anil Antony.

Project entitled '**Integrated Speed Tracking and Toll Management System'** of S7 CSE A students, **Allen Francis Antony, Arnold Anto, Deepa Rajendran, Jinu Jose, Keerthana Sasikumar** has provisionally approved for financial assistance under INNOVATE scheme of KSCSTE 2018 under the guidance of Divya M Menon.

Vishnu A V got placed at Zaliyo Technologies Pvt Ltd. **Athira and Edwin** of S8 CSE A got placed in Xperia Technologies Pvt Ltd

Congratulations!

Ms. Nicy Thomas of S5 CSE B(2015-2019 batch) secured first position in S3 Results with 9.04.

Congratulations!

Ms. Anju Maria K B of S5 CSE A (2015-2019 batch) secured first position in S3 Results with 8.94.

ACHIEVEMENTS

Aiswarya Roy, Anju P, Nisha K, Asha K Murali, Joseph Joy Chiramel, Emritta Johson, Filvin Mathew, Arnold Anto, Albin K Jose, Aiswarya K Prabhakaran, Allen Francis Antony of S7 CSE A, **Urmila M M, Leon Jose, Lipin Pius, Swathi P, Sneha Sunny, Poornima Sankar, Sibi Biju** of S7 CSE B got placed in Amazon Development Center.

Athira L I, Gresshma .P. Benny of S7 CSE A secured first position in S5 Result with CGPA 7.29. **Urmila M M** of S7 CSE A secured first position in S5 Result with CGPA 7.93.

ACTIVITIES

CESA organized invited lecture on **"Issues in Cyber Security"** by **Mr. M V Sangameswaran**, Software Architect, Symantec, Canada on 6/7/2017.

Fr. Jaison Paul Mulerikal inaugurated CESA 2017-18 on 23rd September 2017

Dr. Abdul Hakkim V M inaugurated World Environment Day Celebrations on 23rd September 2017 organized by CSE Department.

Fr. Jaison Paul Mulerikal delivered an informative talk on **"High Performance Computing"** for CSE Department students on 23rd September 2017.

Mr. Rohith Radhakrishnan delivered an informative talk on **"Out of Syllabus"** for CSE Department students.

Dr. Abdul Hakkim V M delivered an informative talk on **"Scientific water management with special reference to kerala"**.

CSI and CESA jointly conducted a one day workshop on **"Technical Bootcamp"** on 28th October 2017.

FOSS club was inaugurated on 28th October 2017.

One day workshop on **"GNU/Linux System administration"** held on 28th October 2017 organized by FOSS Club.

New course for **"Junior Software Developer"** was sanctioned for CSE department under Pradhana Manthri Kaushal Vikas Yojana.

2 week **'On The Job training'** programme was conducted for VHSE students, Desamangalam from 9/11/2017.

TECH-BYTE:-

Augmented reality (AR) is an interactive experience of a real-world environment where the objects that reside in the real-world are "augmented" by computer-generated perceptual information, sometimes across multiple sensory modalities, including visual, auditory, haptic, somatosensory, and olfactory.