Alva's Institute of Engineering & Technology
Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

E-NEWS LETTER

Volume-2, Issue-1

Academic Year 2018-19 ODD Semester

SPECIAL POINT OF INTEREST

MESSAGE FROM HOD

IN THIS ISSUE

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DEPARTMENT VISION

"Engendering competent, excellent professionals by transforming the knowledge and computing skills to individuals through modern innovative tools and techniques"

DEPARTMENT MISSION

- *To produce skilled, creative software developers through rigorous training.*

- *To conduct specific technical courses to keep abreast to the latest technological developments and transformations in the domain.*

- *To establish Industry-Institute Interaction programs to enhance the skills of employability and entrepreneurship.*

- *To implement the ideas of research and innovations in interdisciplinary domains*

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I welcome once again for the 2nd Volume of E-News Letter for this academic year 2018-19. The Department of CSE is striving hard towards the goal of providing innovative and quality education with high standard to achieve academic excellence and provides platform for the students to achieve their career goals. The Department has a team of highly experienced and motivated faculty members who are in the process of tuning the young minds to make them globally competitive. Innovative methods of teaching and learning process are adopted to achieve learning abilities through practice, exposure and motivation. I wish once again all the editorial team for bringing this news letter.

Dr. Manjunath Kotari

Professor & Head

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TECHNICAL TALKS

TECHNICAL TALK-1

Topic: "cocoa and swift"

Date & venue: 25/08/2018 at engineering seminar hall

Resource person: Mrs. Krishnaveni, Technical architect, Infosys, Mangalore

Mrs. Krishnaveni briefly explained Cocoa applications which are typically developed using the development tools provided by Apple, specifically Xcode (formerly Project Builder) and Interface Builder (now part of Xcode), using the languages Objective-C or Swift. ... For end-users, Cocoa applications are those written using the Cocoa programming environment.

TECHNICAL TALK-2

Topic: "Evolutionary Computing"

DATE & VENUE: 03/09/2018 at MBA Seminar Hal lResource Person: Dr. Shridhara K S, Professor, Dept. of CSE, UBDTCE(BOS), Davanagere.

Dr.Shridhara briefly explains about the different topics of fuzzy logic, artificial intelligence, data compression, machine learning. Fuzzy logic is an approach to computing based on "degrees of truth" rather than the usual "true or false" (1 or 0) Boolean logic on which the modern computer is based.. Artificial Intelligenceis a way of making a computer, a computer-controlled robot, or a software think intelligently, in the similar manner the intelligent humans think . Compression can be either lossy or lossless. Lossless compression reduces bits by identifying and eliminating statistical redundancy.

TECHNICAL TALK-3

Topic: "Cloud Based Technologies"

DATE & VENUE: 22/09/2018

Resource Person: Mr.GururajaHegde, Co-Founder, Kambala Solutions Pvt. Limited, Mangalore.

Cloud computing networks are large group servers and cloud service providers that us take advantage of low-cost computing techn with specialized connections to spread processing chores across them. This shar infrastructure contains large pools of systems are linked together. Virtualization technique often used to maximize the power of cloud computing.

TECHNICAL TALK-4

Topic: "Web Application Development, Android App Development, Python &amp Networking"

DATE & VENUE: 09/10/2018

Resource Person: Mr. Sagar, Corporate Trainer, HPE, Mangalore.

A Web application (Web app) is an application program that is stored on a remote server and delivered over the Internet through a browser interface and web-based application is any program that is accessed over a network connection using HTTP, rather than existing within a device's memory. Android software development is the process by which new applications are created for devices running the Android operating system. Python is an interpreted high-level programming language for general-purpose programming.

TECHNICAL TALK-5

Topic:"Data Analytics"

DATE & VENUE: 13/10/2018 at MBA Seminar Hall

Resource Person: Dr. Rajkumar R, Associate Professor, Dept. of CSE, VIT, Vellore.

Data analytics refers to qualitative and quantitative techniques and processes used to enhance productivity and business gain. Data is extracted and categorized to identify and analyze behavioral data and patterns, and techniques vary according to organizational requirements. Modern data analysis tools empower users to retrieve, combine, interact with, explore, and visualize data from any combination of sources, providing them with greater insight into their business processes, their industries, and their customers

TECHNICAL TALK-6

Topic :"Career Development in IT Industry for Students"

DATE: 13th November 2018

Resource Person: Vinutha Rao, Vice President, HCL, Bengaluru.

Mrs. Vinutha explained how a career in information technology can take on many different forms. IT developers might create software programs or be involved in creating the digital infrastructure for a company. Many IT developers work as consultants and do projects for a variety of different organizations. In today's information age, developers in any area of technology need to have an understanding of their market, and many developers specialize in a specific area. Every industry today is in some way affected by technology, and companies large and small need knowledgeable tech developers to help them build and maintain a useful infrastructure. Additionally, as technology grows and expands, each industry needs new software to help them keep up with a changing

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CERTIFICATION PROGRAMME

Apple iOS App Development using Swift C and XCode

The Certification Programme was conducted in 2 different slots First Phase was conducted 10-07-2018 to 03-08-2018 and Second Phase was conducted during 24-09-2018 to 06-10-2018. Mrs. Seema Nair, CEO, CalibreCode Solutions Pvt. Ltd was the Resource Person for the Certification Programme. The resource person Mrs. Seema Nair trained around 25 students of 5th SEM BE CSE, AIET. Mr. Venkatesh Senior Associate Professor, Dept of CSE was the coordinator of this internship program.
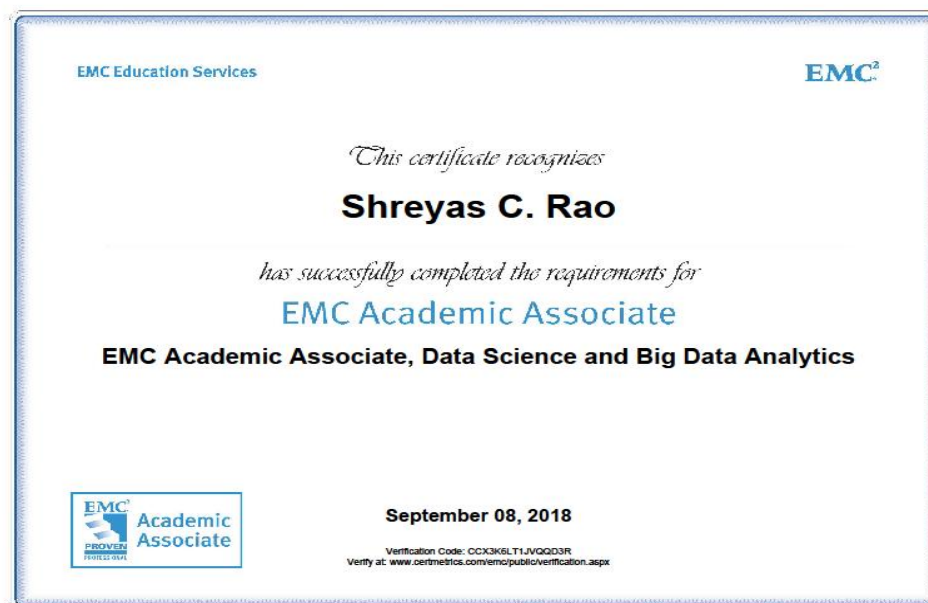

The following apps were published in Apple App Store and available to public to freely download

TITLE OF iOS APP DEVELOPPED	LINK FOR THE APP IN APPLE PLAY STORE
MERGIO	https://itunes.apple.com/in/app/yogastation/id1439488896?mt=8
YOGA STATION	https://itunes.apple.com/in/app/yogastation/id1439488896?mt=8
FITREAT	Currently in the waiting list (Yet to be upload)
MUSICAL EXPRESS	https://itunes.apple.com/in/app/musicalexpress/id1438653274?mt=8

Data Science and Big Data Analytics

This Certification programme was held in association with ICT Academy Chennai and Dell-EMC, Bangalore. Mr. Dineshkumar Gandhi, Sr. Technical Trainer, ICT Academy ,Ms. Fareha Hareem Sr. Trainer Dell-EMC and Mr. Basavadarshan, ICT Academy Relationship Manager were present during inauguration. Mr. Vivek Alva, Managing Trustee inaugurated the Certification programme along with Dr. Manjunath Kotari, HOD CSE and Resource Persons of the Certification Programme. About 121 CSE students were participated and obtained a Certificate from the DELL-EMC after competition of Certified Exam.

Machine Learning using Python Programming

This Certification programme was held in association with Dlithe Software, Bangalore. Mr. Arun Rajpurohit and Mr. N.Sridhar Murthy Dlithe Software were the resource persons of the Certification Programme. About 81 CSE students were participated in this hands-on training session of Machine learning using Python.

Innovative Social Activities

KALIYONA COMPUTER

Kaliyona Computer Camp was organized by CMANIAX forum from 29th October to on 31stoctober 2018, Rural Computer Education Camp to students of Govt Kannada Medium School, Marodi. Inauguration was done by Mr. Ravindra Poojari, President of Lion's Club, Shirthadi, Dr. Peter Fernandes, Alva's Engineering College Principal and Dr. Kurian, Alva's Degree college Principal. Further there was an orientation about Kaliyona Computer lead by Shreyas Rao, Event Coordinator followed by forum coordinators. During the inauguration AIET donated 3 Computer System to School.

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STAFF ACHEIVEMENT

1. Dr. Manjunath Kotari published a paper on "Framework of Security Mechanisms for Monitoring Distributed m-Healthcare Systems" in International Journal of Trend in Research and Development (IJTRD) ISSN: 2394-9333, Volume-5 | Issue-4, August 2018

2. Dr. Mohideen Badhusha S. – Book chapter "Advanced Engineering Research And Application Volume- II", Research India Publication.

3. Dr. Mohideen Badhusha S. – Book chapter "Advanced Engineering Research And Application Volume- VIII", Research India Publication.

4. Mr. Sayeesh published a paper on "A REVIEW OF DEDUPLICATION ON ENCRYPTED BIG DATA IN USING HDFS FRAMEWORK", in IJARIIT

5. Mr. Chanchal Antony published a paper on "A Review On Wireless Sensor Networks" in IJRESM

6. Mrs. Deeksha M, Selected for Ph.D program at NITK, Surathkal on sponsored quota.

PRE- PLACEMENT TRAINING

Pre-placement training was organized for final year students which focused on current industry concepts as well as training for placement. Pre placement training focused on over all development of candidate in order to prepare for various placement drives.

In-house Placement training

Topics covered: Basics of C, Data Structures, C++ and Java.

Mr. Tahir N and Mr. Venkatesh trained students on various Data Structure concepts like Structures, Unions, and Operations on Stacks & Queues along with Linked lists. Hands-on sessions and MCQ's were an important part of it. Assignments were given at the end of each session, which was collected and evaluated the next day.

Ms. Ankitha Shetty and Ms. Shruthi Shetty J handled the various object oriented concepts like Encapsulation, Abstraction, inheritance, Polymorphism, virtual functions etc. Hands-on sessions and MCQ's were an important part of it. Assignments were given at the end of each session, which was collected and evaluated the next day.

Mrs. Deeksha, Ms. Megha, Mr. Parikshith, Mr. Sayeesh and Ms. Reena covered the topics on Java like classes, inheritance, exceptions, packages, Applet-class, String handling, JSP, JDBC etc. Hands-on sessions and MCQ's were an important part of it. Assignments were given at the end of each session, which was collected and evaluated the next day.

Quantitative Aptitude

Mr. Abhilash Trainer for Quantitative Aptitude trained final year students on various short cut methods that can be used to solve quantitative aptitude questions quickly from 14th July 2018 to 19th July 2018. Students got better insight on solving aptitude problems easily. The trainer covered various aptitude related topics.

Personality development and Public Speaking

Ms.Kannan Thandi trained students on Personality development and public speaking from 20th July 2018 to 21st July 2018. She emphasized the need for being confident in public speaking which helps the students to face the interview. Trainer also spoke about various skills that students need to develop for their future.
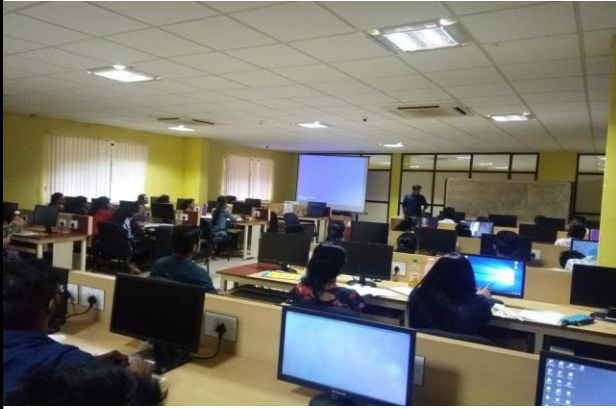

Advanced C & Data Structures

Students were trained on advanced concepts of c & data structures by "Expert Training by Innovation Unlimited, Bangalore" from 23rd July2018 to 28th July 2018. Concepts on C such as arrays, strings, functions, pointers, memory allocations etc. were covered. Data Structure concepts like Structures, Unions, and Operations on Stacks & Queues along with Linked lists were also

Advanced Java, JQuery, Node JS, Angular JS

The training was taken up by Mr. Charles & Team, Techno Voice, Mysore from 29th July 2018 to 31st July 2018. Java is one of the most popular programming languages used to create Web applications and platforms. It was designed for flexibility, allowing developers to write code that would run on any machine, regardless of architecture or platform. Students were trained on various aspects of advanced java like as stated above.

Dot Net and Web Technology

Students were trained on Dot Net and Web technology by Mr. Venkatesh and Dr. Mohideen Badusha S respectively. They were given extensive hands on training by the trainers and assignments were also given. Students were introduced to the new programming concepts of web programming and Dot net.

FACE training

Face aptitude training, which was held from 03rd Aug 2018 to 11th Aug 2018, helped the students to understand the aptitude topics such as number systems, percentage, perfect loss problems, preposition, problems on time and work, speed time and distance, probability, direction problems, questions related to blood relations, permutation and combination, simple equation. More than sufficient questions where solved in the class. They also gave useful tips to answer the group discussion and interview rounds.

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PLACEMENT NEWS

EY

- ADITHYA VISHWANATH SHETTY
- ASHWINI P SHETTY
- DEVIKA SHETTY M
- RAKSHITHA M
- SUMITH KUMAR S K
- SHETTY NIKETHA S
- SURAKSHA R B
- BHARGAVI RAVI
- CHAITHRA
- HEMA R

ACCESS6

- SRUJANA G B
- SHETTY AISHWARYA S
- RAI ADARSH C

ABC

- SRIDEVI PRABHU B S

IWAVE

- ANKITH

MOBINIUS

- MEGHA
- PRIYANKA S P
- HEISNAM SURSITA DEVI

IBM

- RAKSHITHA M
- PRAMOD K S

AMPHI SOFT

- SHREYAS C RAO
- SRIDEVI
- SHETTY NIKETHA S

VALTECH

- ADARSH MS
- JASMINE PRINCY LOBO
- THRIPTHI A H
- ADITHYA MARUTHI NAIK
- JAGADISH RATHI

TCS

- ADARSH M S
- POOJA K

TVM

- SRIDEVI PRABHU B S
- SACHIN PANDITH
- SUSHANTH
- VILAS RAJ S

MPHASIS

- DIVYA R
- VARSHA S
- ASHRITHA JAIN R
- MADHUKARA
- KUMARASWAMY V S
- SUDARSHAN G

WIPRO

- SRIDEVI PRABHU B S
- ANKIT
- DEEKSHITHA
- SHETTY AISHWARYA S
- VILAS RAJ S

ACCORD

- YOGESH

KAMBALA SOLUTIONS

- POORNA SHETTY

SLK SOFTWARE

- SHRADDHA B SHETTY
- PRAMOD K S

INSTITUTE VISION

"Transformative education by pursuing excellence in engineering and management through enhancing skills to meet the evolving needs of the community"

INSTITUTE MISSION

- *To bestow quality technical education to imbibe knowledge, creativity and ethos to students community.*
- *To inculcate the best engineering practices through transformative education.*
- *To develop a knowledgeable individual for a dynamic industrial scenario*
- *To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society.*

PROGRAM OUTCOMES (PO'S)

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

A graduate of the Computer Science and Engineering Program will exhibit:

PSO1: Professional Skills: The ability to understand & implement the computer programs in the areas of Computer Architecture, System Software, Database Management Systems, Web Design, Multimedia and Computer Networking.

PSO2: Problem-Solving Skills: The ability to solve real-world problems by suitable mathematical model with strong technological concepts in rapidly growing arena of computer technology.

PSO3: Successful Career and Entrepreneurship: Knowledge in diverse areas of Software Engineering and Management & Entrepreneurship for IT Industry, conducive in cultivating skills for successful career development.

PROGRAM EDUCATION OUTCOMES

PEO1: To provide students with fundamental strength in core disciplines of computer engineering to solve the problems of computing world

PEO2: To ensure that graduates conquer the difficulties of emerging adaptive technological changes.

PEO3: To prepare students for successful career in the industry of international standard.