



**KUMARAGURU**  
college of technology  
character is life

# COMPUTER SCIENCE & ENGINEERING SILICON MAGIC

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## NEWSLETTER

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# ONE CREDIT COURSES

## APPLICATION DESIGN DEVELOPMENT ON IAAS CLOUD



Course on Application Development in IAAS Cloud course was conducted on March 28 - 29 , 2018 for CSE. The resource persons were Mr.Ajith Narayanan & Team from Infrastack Lab,Bangalore. The main objective of the course was to expose students to basic knowledge in open stack cloud.

Faculty Coordinator :

Ms.R.Kalaiselvi AP III/CSE , Mr.G.Kanagaraj AP/CSE

## MACHINE VISION



A course on Computer Vision and Machine Learning was conducted on March 27-28, 2018. This course focused on the importance of Machine learning in the field of Image and Video Analytics. The course was facilitated by Dr Mohanraj V., Data Scientist, HCL Technology Ltd, Chennai. He worked as Senior Research Fellow in Madras Institute of Technology, Department of Electronics Engineering, Anna University, Chennai. The participants were given explanation about the basics of Computer Vision and techniques for feature extraction. In addition, it helped them to gain knowledge to apply appropriate machine learning algorithms for solving various problems in image processing domain.

Faculty Coordinator :

Dr.D.Chandrakala P/CSE , Mr.S.P.Siddique Ibrahim AP/CSE,  
Mr.V.Senthilkumar AP/CSE , Ms.S.Nithya Roopa AP/CSE

## EMC-BIG DATA



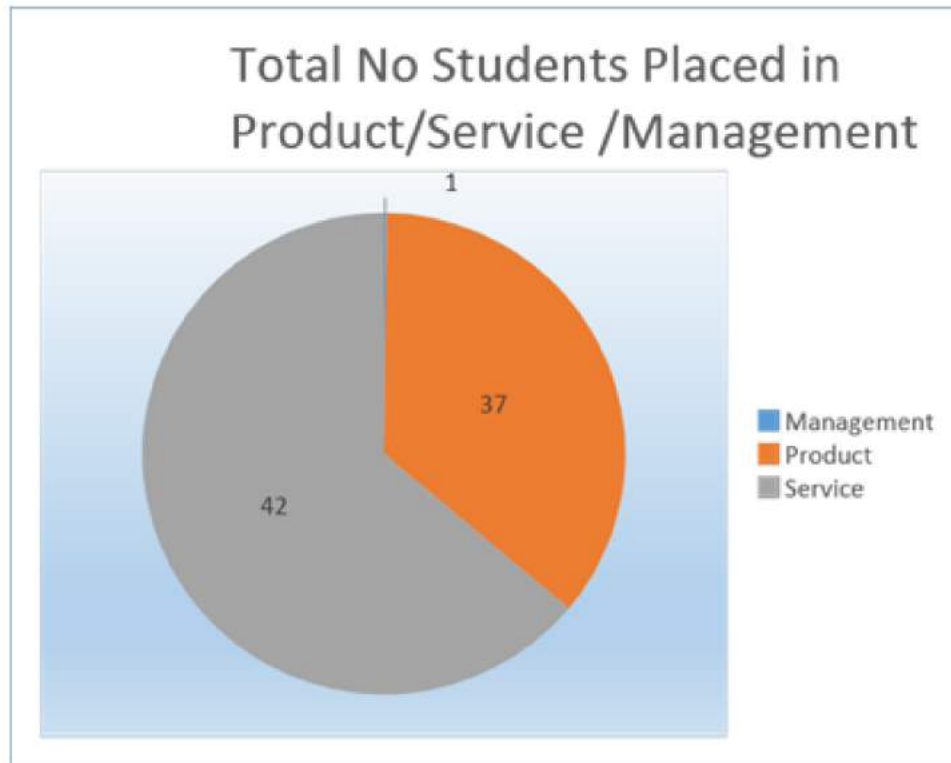
Our department has established a Center of Academic Excellence (CoAE) for Data Science and Big Data Analytics in collaboration with ICT academy of Tamil Nadu and EMC IT Solutions India Private Limited, Bengaluru. By establishing this CoAE, our faculty members got trained in the area of Data Science and Big Data Analytics. The trained faculty in turn conducted "EMC – Data Science and Big Data Analytics " course for our students to provide strong practical foundation and to take up Big Data and other analytics projects. The course also helps the students to prepare for the EMC- Data Science Associate (EMC-DSA) certification exam.

Faculty Coordinator :

Dr.D.Chandrakala P/CSE , Mr.S.P.Siddique Ibrahim AP/CSE,  
Mr.V.Senthilkumar AP/CSE , Ms.S.Nithya Roopa AP/CSE

# STUDENT PLACEMENT DETAILS

Total number of B.E./CSE(2014 – 2018 Batch) students  
placed: 80



## INDUSTRY INTERNSHIPS:

To meet the industry requirements, final year students are encouraged to do internships in various industries. A total of 68 internships including dual internships were offered in the academic year 2017-2018 with stipend of Rs.8,69,921. The highest stipend was Rs.40,000 offered by Amazon for two students.

**amazon** **ThoughtWorks®**





# CAREER BUILDING

## Campus Engagement Program



Department of CSE, in association with Sirius Computer Solutions, Inc. organized 'Campus Engagement Program' on Augmented Reality and Virtual Reality on January 10, 2018. The students were empowered with the ability to develop their own 3D Modelling AR/VR application using Unity Software. Ms.Malarvizhi Saravanan, Consultant Trainee, Ms.Ruphaa Ganesan, Consultant Trainee, Ms.Varshinee Venkatesan, Consultant Trainee, Ms.Oviya Apachi, Consultant Trainee and Mr.Debrup Banerjee, Senior Consultant from Sirius were the Resource persons.

## Career Awareness Program for Pre-Final Year students



Getting clarity on the pathway to future! With great expectations and a handful of questions came the 250 pre-final year students from CSE,IT and MCA departments to the Career Awareness Program organized by the CSE Department on 23 April, 2018. The ultimate aim of the program was to facilitate students in getting their doubts cleared as they were about to leave college and face the industrial world in a while.

Mr. Ramesh Kumar V (Alumni), Developer, Pockeworks Mobile Limited, Coimbatore was the speaker to deliver his experiences and clarifications. He clearly pointed out the industry trends and the opportunities readily available that students could make use of. He emphasized the technical requirements for a full stack developer and the commitment a student has to invest, as a goal-oriented person. He also promised to provide internship to 20 students from KCT in his new startup.

Faculty Coordinator :

Ms.S.Uma Maheswari AP/CSE ,Ms.C.Bharathi Priya AP II/CSE,  
Mr.V.Senthilkumar AP/CSE

# CAREER BUILDING

## Stream Based Training program

Stream Based Training Program adapted to Final Year students based on their area of interest

STREAMS	CRITERIA
Data Analytics	Students with high aptitude, good analytical/logical skills, statistics, analyze large amount of data etc
Employment at Japan	Students with interest in programming and interest in learning Japanese and interest in working in Japan in IT.
Full Stack programming with latest technologies (Javascript, Swift, TypeScript, Ruby etc)	Students excellent in programming and high aptitude, analytical and logical skills.
Infosys	Students completing this program will be technically stronger for pursuing a career in IT industry. Students, who complete the qualifying criteria, will also receive an FP certificate from Infosys.

## Industry Elective

In the even semester 2017-18, U15CSTE40 -Analytics using python was introduced as professional elective course. It was handled by adjunct faculty members Mr. Balaji.M and Mr.Manjunath.A.M from Teknoturf Info Services Pvt.Ltd and faculty members Ms. V.P.Sumathi AP SRG/CSE and Ms.D.Yamunathangam AP/CSE from KCT.140 students had registered in the course and 9 technical papers were submitted in ISTEM and selected for publication. Tool used for learning Exploratory Data Analysis is Anaconda 3.



# DEPARTMENT OUTREACH PROGRAMS

## Summer Faculty Internship



Indian Academy of sciences offered two-month Summer research fellowship for Ms.K.Saranya, AP/CSE at Indian Statistical Institute, Kolkata with stipend of 30,000. She worked there on the topic of "Machine learning Algorithms for clustering gene expression datasets" from May 3,2018 to June 28,2018 under the guidance of Dr.PratiptaMaji, Machine Intelligence Unit, ISI.

## Faculty Delivering Lectures in Various Institutions

S.NO.	Name of Faculty	Topic	College	Month
1	Dr.J.Cynthia, HOD/CSE	FDP on Python Programming	Sri Ramakrishna Engineering College	June 2018
2	Ms.X.Francis Jency, AP/CSE Ms.D.Yamunathangam, AP/CSE	Workshop on IOT using Arduino Programming	Jeppiaar Engineering college, Chennai	January 2018
3	Ms.V.P.Sumathi, AP SRG/CSE	National Workshop on Data Science and Data Analytics	Government Arts College,Salem	March 2018



# EVENTS ORGANIZED IN THE DEPARTMENT

## Seminar on Trends and Troubles with Cyber security



Department of CSE organized Seminar on Trends and Troubles with Cyber security on 31st January 2018 at KCT by Dr. John S Bay, Professor of Electrical and Computer Engineering, Watson School of Engineering and Applied Science, The State University of New York, BINGHAMTON University. Mr. Peter Partell and Ms. Lisa Gallegher had an interactive session with the students regarding admissions and higher education opportunities in Binghamton University.

## Seminar on Machine Vision



A Seminar on an interesting topic called 'Machine Vision' was organized by the CSE Department on March 2, 2018. The Resource Person was Mr. Mohanraj.V, Data Scientist, HCL Technology Limited, Sholinganallur, Chennai. He explained in detail about the technology and various methods used to provide imaging-based automatic inspection and analysis in the industry. Machine vision attempts to integrate existing technologies in new ways and apply them to solve real world problems.

## Seminar on Artificial Neural Network



Department of Computer Science Engineering organized Guest Lecture on "Artificial Neural Networks" by Dr. Sisha J P Simon, Professor from NIT, Trichy on March 2nd 2018 at KCT. The main objective of the seminar was to expose the significance of Artificial Neural Networks and its applications.



# EVENTS ORGANIZED IN THE DEPARTMENT

## Parents Meet

The Department of CSE, organized the Parent – Teacher Meeting for the Even semester of the academic year 2017 - 2018 on March 3, 2018 for CSE parents in Admin Block Seminar Hall from 9:30 am – 1:00 pm. The objective of the one to one mentor parent meeting aims to create awareness in parents about the progress of their ward with his/her attendance status and assessment mark statements, involve them in his/her career building process. Around 200 parents attended the meeting and showed keen interest by actively taking part in the deliberation.



## I STEM

I-STEM, an International Conference on Science, Technology, Engineering and Management was organized on 11th & 12th June 2018. The conference had wide area of advances and developments in Mathematics, Biology, Physics, Computer, Social Sciences and Management and served as a platform for faculty and students to present the results of their research work. It will also serve as a venue for networking with national and international experts in Sciences, Engineering and Technology. The papers presented in the conference will become part of the proceedings of Scopus indexed international journals. The conference has witnessed one of the largest gatherings of experts in Science and Technology. About 48 research papers were presented in the Conference by CSE faculty along with their UG/PG Students.





# FACULTY AND STUDENT ACHIEVEMENTS

## Faculty Achievements

Faculty Name	Awards
Mr.G.Kanagaraj, AP/CSE	Bronze Award level Certificate From Infosys Campus Connect for the academic year 2018[Recognition/Award-State]

## SMART INDIA HACKATHON 2018

The Smart India Hackathon 2018 focuses to develop innovative solutions for the various set of problems and challenges. The Grand Finale of Smart India Hackathon 2018 was held at the Welingkar institute, Mumbai on 30th and 31st March, 2018. M. Esakkimuthu (15BCS211) had won the first prize along with iQube Team members for their work in Incubation for startup and Mentorship. They ideated and worked at iQube to make the prototype. The team got appreciation for using the best technology stack for the prototype. About 27 Central Government Ministries and 18 State Government Ministries had come together and posted 408 problem statements to the students who participated in this grand initiative. Totally, 17539 ideas were received from various technical institutions in India.





# FACULTY AND STUDENT ACHIEVEMENTS

## Summer Course on Big Data Analytics at National University of Singapore



Yamini(15bcs044) & Vishnu (15bcs100) from Third Year CSE Student attended a summer course on Big data analytics using ANN at National University of Singapore(NUS) during June 2018. It was a wonderful experience at NUS. It was a great opportunity to explore the campus and their way of teaching. Students had come from the top institutions in the country. She was offered an internship in which I had to create a forum for big data analytics and machine learning and facilitate the students in our college.

## Engineering Research and Innovation of KCT at USA

Sumanth(15BCS010) and Pon Mahil Arasu(15BCS005) along with Dr.J. Senthil,Principal ,KCT attended 2018 American Society of Engineering Education(ASEE) Conference at Salt Lake City,Utah,USA.The Students presented the following researches on behalf of KCT and Teams working in each of the projects.

Students presented the following researches on behalf of KCT and the teams:

- Smart De Huller- A machine to help small farmers process the millet they cultivate cost effectively.
- Kash- A billing system to address distributed accounting and time consuming cash handling.
- Computer Vision for Textile Industries- A system to trace unwanted objects in production line.
- Kenaf- A biodegradable napkin from kenaf fibre





# ALUMNI CORNER



## Malarvizhi Saravanan

Batch(2013-2017)

Sirius Computer Solutions,  
Chennai

Hello Friends,

I am glad to share some thoughts on how our world of computer science will march towards the future.

Before, entering into some of the technical jargons, I would suggest you all to adapt to continuous learning to grow in your career and set goals according to your passion.

Whether the business is looking to stay ahead of the curve with the integration of advanced digital devices or beef up your cyber security, the tech trends of the year are sure to help. You will need to keep an eye out for advancement in AI, IoT and VR in particular. Commoditised Artificial Intelligence, chatbots where you can create ML and AI in few hours with existing tech fronts available. Augmented analytics forms a more deeper root in analytics where the industry may rely full on data-as-service. Augmented Reality and Virtual Reality gives a new era of user experience to the end users. In other hand infrastructure to support these powerful technologies puts the pressure to the industries to move to the cloud. In addition to all these there are some cyber security investments growing to meet the essentials.



## Sadham Hussain

Batch(2009-2013)

Hey guys!

I am working in data protection platform. It has been 5 years since I joined Commvault. It taught me lots of things in terms of professionalism. Programming or language never matters.

Market trends expects one to do the job per engineering models. Software engineering is the key for your sustained success. It is the most integral part of software engineering and it is derived from real situations that got applied in coding methods. Mobility devices will dominate the next wave of technology advances and it includes IOT as well. Would recommend to contribute for open source projects where one can contribute for a piece of code (GOOGLE - <https://goo.gl/dnD3WZ>). Home cloud (private cloud) will be the next advancement in the internet.

# GLIMPSE OF VARIOUS EVENTS



Faculty at the wedding of  
Ms.X.Francis Jency  
on May 14,2018.



Farewell of 2014-2018  
Batch



OBT of 2015-2019  
Batch on  
February 16,2018



Alumni Get-together  
98 CSE Batch





வணங்குகிறோம் வழிநடப்போம்  
உங்கள் வாழ்க்கை - எங்கள் பாதை



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