Amal Jyothi College of Engineering
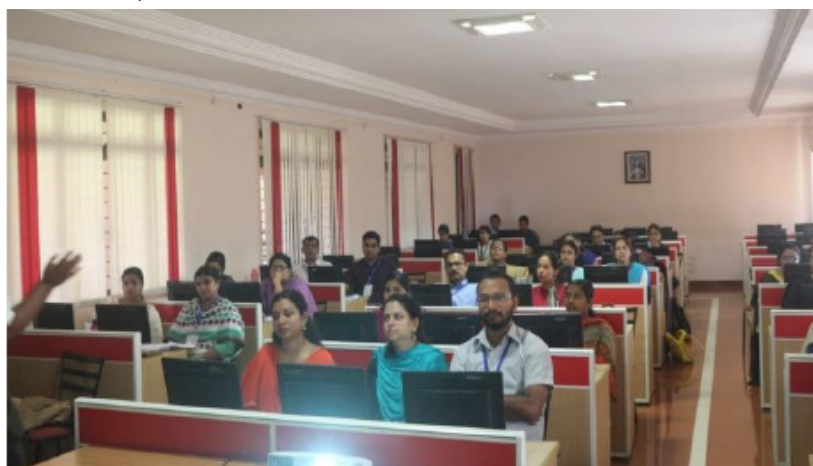## Kanjirapally, Kerala

Bytes

Dept. of Computer Science & Engineering

JUNE 2019

Python Boot Camp

Computer Science Department together with our local ACM chapter was organizing a Python Boot Camp for high school teachers. DSC AJCE provided them with all the technical needs and resource persons. There were 6 sessions conducted in 2 days. Members from the core team conducted 2 sessions on Python basics and its packages(intro). There was a hand on lab session and other interactive activities. The Network lab and seminar halls were used to conduct several sessions. Python Boot Camp was conducted on March 15 & 16,2019.

python
SUMMER BOOT CAMP
for
CBSE HIGHER SECONDARY TEACHERS

Organized by Dept of Computer Science & Engineering, Amal Jyothi College of Engineering Kanjirappally in association with ACM-Kottayam Professional Chapter, ICFOSS and DSC-AJCE
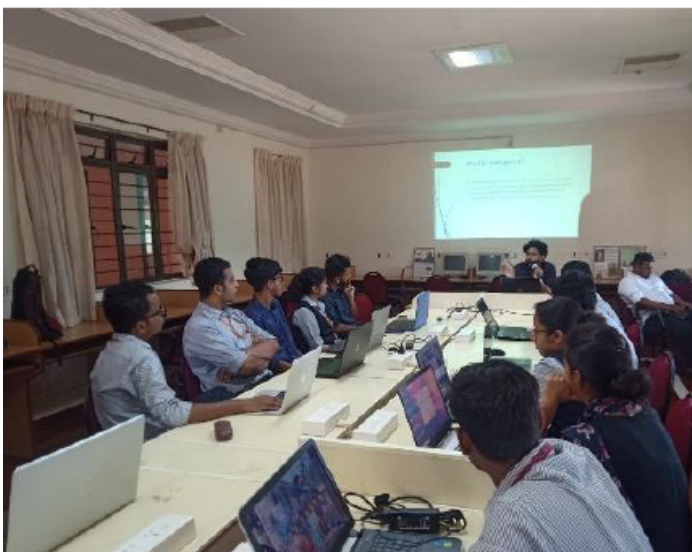
/ 15-16 MAR 2019 /

AMAL JYOTHI COLLEGE OF ENGINEERING

Two-day ML Study Jam

Two-day ML Study Jam was conducted on March 29 & 30, 2019 Machine learning is the science of getting computers to act without being explicitly programmed. In the past decade, machine learning has given us self-driving cars, practical speech recognition, effective web search, and a vastly improved understanding of the human genome. Machine learning is so pervasive today that you probably use it dozens of times a day without knowing it. Many researchers also think it is the best way to make progress towards human-level AI.

Study Jam took place on 29 & 30 of March and the event had a strict participant policy hence only 15 students were selected for the same. We had two guest speakers from the industry to take the sessions for the students. Project Lab was chosen as the venue for the study jam.

Intro to Flutter Development

One of the latest technologies that have taken the industry by storm and continually leading its way into the market with ease in its development and integration into multiple platforms. Intro Flutter Development Programme was organised on February 16,2019. Google introduced Flutter in the 2015s and since then most companies are switching to this platform for mobile app development.

Introduction to Flutter was a beginner session for our students to get to know more about flutter and how to start out in flutter. The event concluded with a new enthusiasm among the students to learn about the technology.

A BIRD'S EYE VIEW ON CYBER SECURITY

Amal Jyothi College of Engineering celebrated the National Science Day on 27th February 2019. The programme was sponsored by KSCSTE (Kerala State Council for Science Technology and Environment) and DST. The formal inauguration was done by Dr.Z.V. Lakaparambil, Principal, AJCE. The programmes were conducted on 27th February 2019

• Seminar on Cyber Security Awareness

Cybercrime is where the perpetrators usually use or target the computer or mobile devices for their unlawful acts to gain any information which can cause heavy damage/loss to the owner of that sensitive information. Internet is the most common mean to illegally access such information from individuals.

Cyber Security Awareness seminar educated common woman to recognise potential cyber-attacks from email phishing, ransomware and social engineering and discussed about the preventive measures to avoid cybercrimes.

• Workshop on Basics of Internet and use of various Communication Medias

This workshop has provided the participants with an understanding of the most popular and current technologies which is used in their daily lives. The participants had gained the skills and knowledge required to operate their computer and perform common tasks.

Art of Decision Making

India's First Decision making talk series led by Sri Ajith Doval, National Security Advisor GOI held on 19th March 2019,11.30 am. Ajit Kumar Doval KC is a central civil servant of the IPS cadre serving as the fifth and the current NSA National Security Advisor to the Prime Minister of India, with the precedence equivalent to Cabinet Minister.

Talk was about the topic Art of Decision Making. The talk enlightened the students of both B. Tech and MTech.

FDP/Courses Attended

- Mr. Jerin Thomas and Mr. Tom Kurian has participated in the TEQIP- Phase II sponsored Faculty development programme on "Research Trends in Biomedical and Satellite Image Processing", organized by the Department of Computer Science and Engineering, Thangalkunju Musaliar College of Engineering, Kollam on 01-01-2019-05-01-2019

- Ms. Bini M Issac attended DST sponsored two weeks FDP on "Entrepreneurship" at AJCE scheduled on 03/01/2019-16th January 2019

Seminar /Webinar / Workshop attended /Conducted

- Seminar on "Cyber Security" for S8 students by Kerala State Education Development Society (KSTEDS). Resource persons: Mr. Swaroop (Centre head), Mr. Basith (Academic Head) and Sachin (Marketing head) on 12/02/2019

- PhP workshop for S8 students by Right Soft Options, Kaloor. Resource Persons: Mr. Abraham George (CEO, RSoft) and Mr. Kiran (Senior Programmer) on 14/02/2019

Seminar /Webinar / Workshop Conducted/Organised

- Latex workshop was led by Ms. Shiney Thomas, Assoc.Prof, CSE for S8 CSE students on 14th March 2019, in association with ACM chapter.

- Department of Computer Science and Engineering organised a Two-Day Hands-on Workshop on 15th 16th of March 2019 for Higher Secondary Teachers of CBSE Schools "PYTHON SUMMER BOOTCAMP", in association with ACM Kottayam Professional Chapter, ICFOSS & DSCAJC. The workshop was intended for Higher Secondary CBSE school teachers who are handling the programming language Python for class XI. Around 27 participants attended, and the resource persons were Mr. Jayakrishna V, Mr. Tom Kurian, and Ms. Neethu C Sekhar (AP, CSE). The workshop was coordinated and organised by Ms. Anishamol Abraham, Ms Bini M Issac, Ms, Aleena T Xavier (AP, CSE) and Mr Manoj Joseph (LI, CSE).

- Python Boot Camp was organised on 5,6,26,27th April 2019

- As part of National Technology Day celebrations 2019, Department of Computer Science and Engineering conducted a One-day Programme for Start-up Aspirants, "CLIMB THE HILL" on 10/05/2019, Friday. The programme is sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE) which included Interactive Session on "Challenges faced in establishing a start-up and its scale up" and an Idea Pitching Competition. Mr. Jerin Thomas and Ms Anishamol Abraham coordinated the event and Mr. Krishnalal G also took a session

Department Initiatives

- The Department of Computer Science and Engineering of our college in association with Mary Queens Mission Hospital Kanjirappally organized the 2nd "Heart your Kidneys"- Kidney Camp in memory of Aswin Ipe Thomas (2014-2018 CSE batch), on 16th March 2019, Saturday, from 9:30 AM at Divisional Block A.

Expert Talks

- A motivational talk by Antony Varkey (Trainer & Alumni 2018 Batch) for S8 CSE students was organized on 16th March 2019

Student/ Staff, Awards/Achievements

- Aby M Joseph, Christine Mathews, Athul B Dominic, and Jithin K Jose from S6 CSE A won First prize for the Deep Learning Hackathon titled "ZealHack" held on 15/03/2019 organized by College of Engineering, Cherthala.

- Two teams from S8 CSE B won Second and Third prizes in "Kode Kochi Kode Hackathon" held on 16/03/2019 organized by Rajagiri College. Second prize winners: Shine Abraham, Srijith Sasikumar, Suhail Harris, and Vineeth J Palatty. Third prize winners: Martin Siby, Philson K Philip, Rajat Jaic Mendus and Seby Joseph.

- S8 CSE A students Dona Sunny, Farsana Rahim, Jerin Raju and Jasna Jaleel guided by Ms. Shiney Thomas, Associate Prof, CSE secured Second prize in presentation of a technical paper titled "Hand gesture keyboard for Blind" on 16/03/2019 at the National Conference on Scholastics of Industry and Innovation (NCSTI) organized by St. Thomas Institute for Science & Technology, Trivandrum

- Mr. Jerin Thomas, AP CSE, co-authored a book "Q-Solve" - Solved Question Papers for CSE, Btech 4th Semester published by ECREFERENCE Books.

Faculty as Resource Person

- NextGuard Session led by Manoj T Joy, Nikil Thomas, M Geo James (S8 Students) and assisted by Shiney Thomas, Aleena T Xavier at Holy Family Syro Malabar Forane Church, Ponkunnam on 22/01/2019

- One-day Workshop about Cyber security "A BIRD'S EYE VIEW ON CYBER SECURITY " sponsored by Kerala State Council for Science on 27/02/2019, Technology and Environment. Coordinator: Anju Joseph and Tintu Alphonsa Thomas
Resource Persons: Prof. Manoj T Joy, Ms. Shiney Thomas and Ms. Neenu R

PLACED STUDENTS

SAYONE TECHNOLOGIES

Suhail Haris

Vineeth Palatty

CLEAR GLASS

Chriss Martin

SURVEY SPARROW

Seby Joseph

Rajat Jaic Mendus

Martin Siby Mathew

TRAVANCORE ANALYTICS

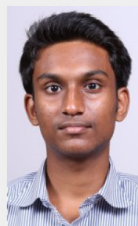Bini Sara Jacob
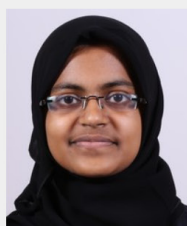
INFOSYS

Philson K Philip

Riya Rachel Samuel

PLACED STUDENTS

TCS

Abey Antony

Farsana Rahim

Aparnna S

Alphy Abraham

Johns Soney

Binoo B Thomas

Jithin K George

Keerthy Vinod

Tini Thomas

SPERIDIAN

Jitto Thomas Palathra

EXPERION

Christina Johns

R Vinayak

FEDERAL BANK

Justin Saji

Liya Joy

Sandra Suresh

Shine Abraham

WIPRO

Aiswarya Suresh
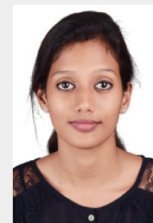
Ann Mary Abraham

Jerin Raju

Keziya Ann Mathew

Riya Susan Thomas

Sera Jose

Srijith Sasikumar

MPHASIS

Aleena Thampi

Merry Mol Joseph

Estha Thomas

IBS

Dona Sunny

Nivin Emmanuel

BYJUS LEARNING APP

M GEO JAMES

Shine Abraham

COGNIZANT

Subin Suresh

Jitto Thomas Palathra

Vision of the Department

The Computer Science and Engineering department is committed to continually improve the educational environment in order to develop professionals with strong technical and research backgrounds.

Mission of the Department

To provide quality education in both theoretical and applied foundations of Computer Science & Engineering.

Create highly skilled Computer Engineers, capable of doing research and also develop solutions for the betterment of the nation.

Inculcate professional and ethical values among students.

Support society by participating in and encouraging technology transfer.

Programme Educational Objectives

PEO1 Be successfully employed in computing profession as well as multidisciplinary domains in supportive and leadership roles.

PEO2 Participate in life-long learning through successful completion of advanced degrees, continuing education, certifications and/or other professional development.

PEO3 Promote design, research, product implementation and services in the field of Computer Science and Engineering through strong technical, communication and entrepreneurial skills.

PSO1 Apply Engineering knowledge to analyze, design and develop computing solutions by employing modern computer languages, environments and platforms that can solve complex problems.

PSO2 Anticipate the changing direction of computational technology, evaluate it and communicate the likely utility of that for building software systems that would perform tasks related to industry, research and education.

PSO3 Inculcate the knowledge of Engineering and Management principles to manage projects effectively and create innovative career paths.

Programme Outcomes

B Tech Computer Science and 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.