

HEX

A NEWSLETTER FOR DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



HIGHLIGHTS

- Department Activities
- Class Toppers
- Students Achievements
- Faculty Achievements
- Association
- Gallery
- Placements



MAHAGURU INSTITUTE OF TECHNOLOGY

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ABOUT THE DEPARTMENT

We, the students and faculty of Computer Science comprise of the biggest department on campus. Striving toward creating an excellent ambience for budding engineers, coders, most importantly, innovators. We are driven forward by self-motivated goals. New ideas, research and scholarship flourish in our laboratories. This is just the right place for leaders and innovators of tomorrow to emerge! The Computer Science and Engineering department strives towards building progress that not only concentrate on logic and design, but also in inculcating soft skills such as team-work, leadership and self-confidence. The programs intend to train students in advanced core courses that have been the foundation of our field, as well as emerging technology that are being used in latest revolutionary concepts, such as Artificial Intelligence, Virtual Reality, and so on.

VISION

- *To provide quality education, research and development with human values to mould globally competent and qualified computer science and engineering professionals with creative skills.*

MISSION

- *Provide the quality education through value added course, theory and practical session for developing creative and innovative problem solving skills.*
- *Promote learners in entrepreneurship activities, placement and higher studies.*
- *To inculcate ethical and professional values and encourage moral values of social commitment among students.*

CORE VALUES

- *Discipline, Dedication and Determination*
- *Gain Strength Through Organization.*
- *Gain Freedom Through Education.*

EDITORIAL PANEL

Staff Editor:

Preeti Mariam Mathews

Student Editors:

Abhijith P

Athul Mohan

Mrinal M Prasad



MESSAGE FROM PRINCIPAL - DR. MANJU J



"Success comes to those who work hard and stays with those, who don't rest on the laurels of the past."

Education is not merely acquirement of facts but also of values which help us improve the different facets of mankind. A pivotal role of education lies in shaping the personality of a student into a healthy mind and happy soul, who is not only equipped with 21st century skills and aptitude required for academic excellence but also face the challenges of life in a balanced and harmonious way. It gives me immense pleasure to note that the Computer Science Engineering Department students are bringing out department newsletter HEX 2K22- 2K23, such activity brings out the creativity of the students and helps them learn valuable lessons of cooperation, leadership and team work. HEX 2K22-2K23 is a perfect blend of literary articles, art, personal experiences and wonderful memories of students which reflect their creativity and potential. I am very happy to convey my congratulations and best wishes to all the students and faculty for their endeavors in bringing out this wonderful newsletter.

MESSAGE FROM ACADEMIC DEAN - DR. ARUN ELIAS

It gives me immense pleasure to note that Department of Computer Science & Engineering bringing out the News letter " HEX" for the academic year 2022-23. The objective of this newsletter is to bring out the significant activities and achievements of the department's faculty members, students as well as alumni. Computer Science and Engineering has now a role to play in every field of life and in all sections of society. It is penetrating deeper into the rural areas and trying to uplift the lives of underprivileged people using smart technology and Industry 4.0. India is currently going through a revolution in digitization and innovation. I congratulate and convey my best wishes to the Department of Computer Science and Engineering and the entire editorial team on the launch of their newsletter "HEX". Together, let us strive to achieve significant new milestones.



MESSAGE FROM HOD - SUMA S G



I am happy that the Department of Computer Science and Engineering is releasing its Newsletter for the academic year 2022-23 enumerating the various activities and achievements of our students. The Newsletter is an academic venture to encourage students and respective faculty members and indulge them in academic friendly and institutionally approved activities. The department offers excellent academic environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and inculcate the spirit of team work in them. The intake for UG program in Artificial Intelligence and Machine Learning was expanded

to 60 seats. Department is actively involved in academic as well as research work in current areas of Computer Science and Engineering and multi-disciplinary streams We have registered for professional body membership in CSI and have started different activities under CSI student chapter. The department is actively involved in activities in association with various professional societies such as CSI, ISTE, ICFOSS. I hope that this newsletter will serve the purpose of reflecting all the activities of the department and I wish good luck to the entire team of editors and look forward to your kind patronage of our newsletter.

ACTIVITIES

MACHINE LEARNING USING PYTHON



MAHAGURU INSTITUTE OF TECHNOLOGY
WEBCASTED BY ISTE, AFFILIATED TO APJ Abdul Kalam Technological University
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WEBINAR ON
MACHINE LEARNING USING PYTHON

ORGANISED BY
COMPUTER SCIENCE AND ENGINEERING

RESOURCE PERSON

SANITHA SAID
SENIOR SOFTWARE ENGINEER
360 GROWERS
CANADA

19th NOVEMBER 2022
10:00 AM - 11:30 AM

CO-ORDINATOR: CHIPPY T

www.mahagurutech.ac.in

The webinar on Machine Learning Using Python was conducted by Ms. Sanitha Said, a senior software engineer at 360 Growers Canada on 19th November 2022 in association with ISTE. The workshop was coordinated by Assistant Professor Chippy and was held on a full-day basis. The workshop began with an introduction to machine learning and its applications in various industries. Ms. Sanitha explained the different types of machine learning algorithms and their use cases, such as supervised and unsupervised learning, and shared examples to illustrate the concepts.

VERSION CONTROL USING GIT AND GITHUB



MAHAGURU INSTITUTE OF TECHNOLOGY
WEBCASTED BY ISTE, AFFILIATED TO APJ Abdul Kalam Technological University
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WEBINAR ON
VERSION CONTROL USING GIT AND GITHUB

ORGANISED BY
COMPUTER SCIENCE AND ENGINEERING

RESOURCE PERSON

SIRAJ THANKAPPAN
ACD SOFTWARE SOLUTIONS
DUBAI

03rd DECEMBER 2022
10:00 AM - 11:00 PM

CO-ORDINATOR: SUMA S G

www.mahagurutech.ac.in

The "Version Control Using Git and GitHub" webinar was conducted by Mr. Siraj Thankappan, a Senior Software Engineer at Infosys, and coordinated by Mrs. Suma S G, Assistant Professor of Computer Science and Engineering department in association with CSI on 3rd December 2022. The webinar was held online and was attended by a diverse group of Students from various other branches. The webinar began with an introduction to version control and its importance in modern software development. Mr. Siraj explained the benefits of using version control, such as the ability to track changes to code over time, collaborate with others on projects, and revert back to previous versions if necessary.

SECURITY IN CYBERSPACE



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SEMINAR ON
SECURITY IN CYBERSPACE

ORGANISED BY
COMPUTER SCIENCE AND ENGINEERING

RESOURCE PERSON

NEENU R
AMAL JYOTHY COLLEGE OF
ENGINEERING, KANJARAPPALLY

04th FEBRUARY 2023
10:00 AM - 11:30 AM

CO-ORDINATOR: AMITHA R

www.mahagurutech.ac.in

The Cyberspace seminar conducted by Ms. Neenu R, Assistant Professor at Amal Jyothi College of Engineering, Kanjarappally, and coordinated by Assistant Professor Ms. Amitha R. The webinar was held on 4th February 2023 in association with ISTE and was attended by 60+ participants. The purpose of the webinar was to educate the audience on the importance of cybersecurity in the digital age and to provide tips and best practices for maintaining online security. Ms. Neenu began the webinar by discussing the various types of cyber threats that individuals and organizations may face, including malware, phishing attacks, and ransomware.

INTRODUCTION TO MICROSOFT OFFICE AND OPEN SOURCE TOOL



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WEBINAR ON
INTRODUCTION TO MICROSOFT OFFICE AND OPEN SOURCE TOOL

ORGANISED BY
COMPUTER SCIENCE AND ENGINEERING

RESOURCE PERSON

JOSHY THOMAS
PROJECT MANAGER, TADMUR
QATAR

25th FEBRUARY 2023
10:00 AM - 12:00 PM

CO-ORDINATOR: PREETI MARIAM MATHEW

www.mahagurutech.ac.in

The "Open Source tools" workshop conducted by Mr. Joshy Thomas, Project Manager Tadmur Qatar, and coordinated by Assistant Professor Preeti Mariam Mathews. The workshop was held on 25th February 2023 and was attended by 60+ of participants. The purpose of the workshop was to provide an introduction to open source tools and their use in software development. Mr. Joshy began the workshop by discussing the concept of open source software and the benefits it offers, including the ability to access and modify source code, collaborate with a community of developers, and avoid vendor lock-in.

WORKSHOP ON PYTHON



MAHAGURU INSTITUTE OF TECHNOLOGY
KATTACHIRA, PALLICKAL PO, KAYAMKULAM, ALAPPUZHA, 690503
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
IN ASSOCIATION WITH CSI CHAPTER

1 Day Workshop
on Python

Date: 03-03-2023

RESOURCE PERSON:
MALAVIKA M
SOFTWARE DEVELOPMENT FACULTY
CADD CENTRE, MAVELIKARA

The "Python" workshop conducted by Mrs. Malavika M, Software Development Faculty, CADD Centre Mavelikara in associated with CSI. The workshop was held on 3rd March 2023. Python 1-Day Fundamentals Workshop is the interactive and hands-on way to get started on exploring and visualizing your data. You will dive head first into Python, skill up with exercises, and by the end of the day you'll have a handle on data analysis, automating business tasks, and web development. Start writing basic syntax with Python scripts that store and manipulate data in the form of variables, for a more powerful, customizable Python programming experience. Use dictionaries and lists to format and organize information; use conditionals and loops to allow your programs to make intelligent, logic-driven decisions; use functions to organize code according to the problems they solve and start taking on code challenges to build your programming skills.

MYTHS AND FACTS ON PCOS



MAHAGURU INSTITUTE OF TECHNOLOGY
COMPUTER SCIENCE AND ENGINEERING DEPARTMENT
A Women Cell Initiative

ONLINE SESSION
ON
MYTHS AND FACTS ON PCOS

"Digit-It! Innovation and Technology for Gender Equality."

RESOURCE PERSON
DR. SRUTHY SREERAMACHANDRAN
MEDICAL OFFICER,
FE DEL MUNDO MEDICAL CENTRE,
MALDIVES

8TH MARCH 2023
07:00 PM - 08:30 PM

CO-ORDINATOR : PREETI MARIAM MATHEWS
STUDENT CO-ORDINATOR : POOJA SHIBIKUMAR

Women's club organized a session on "Myths and Facts of PCOS" on Women's Day. The cell is intended to awaken the students' awareness on health issues related to women. The cell promotes the all-round development, fosters leadership qualities and creates a social awareness in the students through extension and outreach programs. Students are encouraged to develop their inherent talents, create new skills and empower themselves through the various initiatives undertaken by the cell. Orientation programs and workshops aimed at promoting self-esteem, confidence and self-defense are also arranged to equip the members to face life in a better manner. They are empowered to face the challenges of today's globalized world.

ALUMINI TALK ON INTRODUCTION TO BLOCK CHAIN



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ALUMINI TALK
INTRODUCTION TO BLOCK CHAIN

ORGANIZED BY COMPUTER SCIENCE AND ENGINEERING
IN ASSOCIATION WITH FIRST YEAR INDUCTION PROGRAM 2022

RESOURCE PERSON
G HARIDEV
FULL STACK DEVELOPER, BEINEX SOLUTION

10.00 AM TO 11.00 AM
4th NOVEMBER 2022

CO-ORDINATOR : SREELEKSHMI B

www.mahagurutech.ac.in

On 4th November 2022, G Haridev, a full-stack developer at Beinex Solution, gave an alumni talk on the topic of "Introduction to Blockchain." The talk was organized by Department of Computer Science and Engineering. The talk began with a brief introduction to the concept of blockchain, which is essentially a distributed ledger technology that allows multiple parties to have access to the same database of records, without the need for a centralized authority. Haridev then explained how blockchain technology has been used in various industries, such as finance, supply chain management, and healthcare, to increase transparency, reduce costs, and improve efficiency. Haridev then delved deeper into the technical aspects of blockchain, including the various components of a blockchain network, such as nodes, blocks, and transactions. He also discussed the different types of blockchain, such as public, private, and hybrid, and their respective pros and cons.

"A computer would deserve to be called intelligent if it could deceive a human into believing that it was human."

- Alan Turing

CLUB ACTIVITIES

- Ecoclub organized action based activities like tree plantation, cleanliness drives both within and outside the campus on 25th November 2023.
- MSigma Gokulam was conducted "Mock Aptitude Test" for final year CSE students to asses general abilities and intelligence which was organized by training and placement cell on 1st March 2023.
- Coding Club conducted two days workshop on Introduction to R Programmimg" on 12th November 2022.
- A technical talk on "An introduction to Artificial Neural Networks and its Applications" was conducted under the banner of CSI - MIT on December 2022.
- CSI students branch in association with Geetha Meenakshi, Enxcl Business Solutions conducted a workshop on "Full Stack Development Using Java" on 25th February 2023.
- Expert Talk on "SQL BASICS" by Santhosh Udayanan Founder, CEO Enxcl Business Solutions was conducted a master class on 26th February 2023 in associated with FOSS Cell.
- Huddle Global - Huddle Global is Asia's biggest startup conclave where investors and entrepreneurs from around the world discuss idea's and interact with students and young innovators in association with IEDC. Around 15 students from our college attended this event as volunteers and gained unmatched hands on experience.

PLACEMENT



SURABHI SURESH
(QUEST GLOBAL)



JAYADEV P U
(TURING MINDS)

CLASS TOPPERS



SURABHI SURESH
S6 CSE
CGPA 10



NANDHANA R
S6 CSE



JAYADEV P U
S6 CSE



ANAGHA RAJ
S6 CSE



S SREE LEKSHMI
S6 CSE



SWETHA S
S4 CSE



DARSH S KUMAR
S4 CSE



SIDHU S KUMAR
S4 CSE



POORNIMA M P
S4 CSE



ARYA S KUMAR
S4 CSE



G R LEKSHMIPRIYA
S2 CSE



AKHILA SHANKAR
S2 CSE



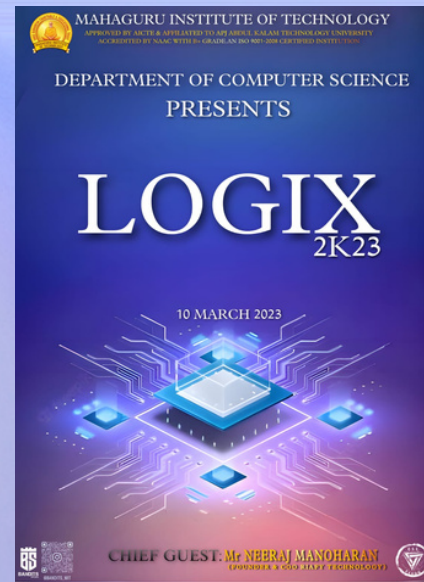
BHAVANA BYJU
S2 CSE

FACULTY ACHIEVEMENTS

- SUMA S G SUBMITTED A PUBLICATION ON "AN INTELLIGENT IOS USING FEATURE ENGINEERING ON SOFT COMPUTING " IN SPRINGER JOURNAL.
- SUMA S G SUBMITTED A PUBLICATION ON "DBN BASED INTRUSION DETECTION SYSTEM FOR SECURED COMMUNICATION FOR WIRELESS PERSONAL COMMUNICATION" IN SPRINGER JOURNAL.
- AMITHA R GOT APPROVAL FOR PUBLISHING ON "TRAINING AND CLASSIFICATION OF PCD WITH LRM MODEL FOR DIABETICS PREDICTION" ON INTERNATIONAL FORMAL PERFORMABILITY ENGINEERING JOURNAL IN SCOPUS.
- CHITHRA S RAVI, AMITHA R, PREETI MARIAM MATHEWS PARTICIPATED IN A 3 DAY FACULTY DEVELOPMENT PROGRAM ON "MACHINE LEARNING AND CYBER SECURITY" AT KMCT COLLEGE OF ENGINEERING.
- TESSY ABRAHAM, MATHU UTHAMAN, MEGHA VASUMOCHAN PARTICIPATED IN A 3 DAY FACULTY DEVELOPMENT PROGRAM ON "DISCOVER THE POWER OF DIGITAL VISION HOW AI SEE THE WORLD" FROM 31ST JANUARY TO 2ND FEBRUARY 2023 AT MANORAMA HORIZON KOTTAYAM.
- CHIPPY T, SREELEKSHMI B, NAMITHA T N HAD PARTICIPATED IN A 4 DAY HANDS ON TRAINING FOR " MACHINE LEARNING AND DEEP LEARNING " FROM 25TH - 28TH JANUARY 2023.
- PREETI MARIAM MATHEWS GOT APPROVAL FOR THE PATENT ON "IOT ENABLE SMART CAR PARKING METER" ON SCOPUS.

STUDENT ACHIEVEMENTS

- POOJA SHIBIKUMAR AND SHUKAIRA BEEGAM T OF S8 PARTICIPATED IN A 3 DAY RESIDENTIAL CAMP IN MACHINE LEARNING IN PYTHON AS A PART OF GENDER AND EQUALITY PROGRAM AT ICFOSS TRAINING CENTRE , SPORTSHUB, GREEN FIELD, KARYAVATTOM. THE STUDENTS PRESENTED A PROJECT ON WINE QUALITY PREDICTION SYSTEM USING MACHINE LEARNING USING PYTHON. THE EVENT TOOK PLACE FROM 16TH - 18TH SEPTEMBER 2023.
- MRINAL M PRASAD, ATHUL MOHAN AND ABHIJITH P OF S6 DESIGNED A CALENDAR FOR THE YEAR 2023 OF MIT.
- POOJA SHIBIKUMAR , SACHU P ,NIRIL AJAY ,JAYADEV P U, ANANDU R DAS, SALMA K AND SHUKAIRA BEEGAM T OF S8 AND DARSH S KUMAR AND ANANTHA KRISHNAN R OF S6 PARTICIPATED IN THE HUDDLE GLOBAL 2022 WHICH WAS ASIA'S GREATEST MEETUP OF ENTREPRENEURS ORGANIZED BY KERALA STARTUP MISSION.
- DARSH S KUMAR AND ANANTHA KRISHNAN R OF S6 PARTICIPATED IN THE PROFESSIONAL STUDENTS SUMMIT ORGANIZED BY THE GOVERNMENT OF KERALA ON 11TH JANUARY 2023 AT ADLUX CONVENTION CENTRE ANGAMALY, KOCHI.
- ABHINAND S AND AKHIL BABU OF S8 PARTICIPATED IN SITEWISE - A WORKSHOP BY WORDPRESS ON TOPICS RELATED TO WEBSITE DEVELOPMENT AND MANAGEMENT CONDUCTED ON THE IEDC SUMMIT AT RAJAGIRI SCHOOL OF ENGINEERING AND TECHNOLOGY, KAKKAND ON 11TH MARCH 2023.
- AKHIL RAJ R SUCCESSFULLY COMPLETED 7 DAYS FREE BOOTCAMP ON TINDER CLONE USING HTML AND CSS.
- POOJA SHIBIKUMAR HAD BEEN INVITED TO BE A PART OF THE "GDSE WOW'S CORE TEAM MEMBER.

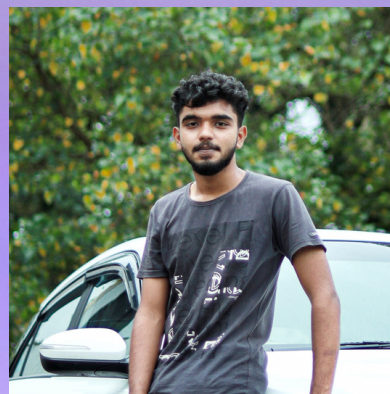


"Logix" is an association event organized by the Computer Science and Engineering department association that focuses on providing students with practical knowledge and experience in the field of computer science and engineering. The program includes workshops and guest lectures from industry experts and academic professionals. Students can also participate in various technical and non-technical events such as coding competitions, gaming tournaments, and cultural programs. "Logix" aims to enhance the technical and professional skills of students, foster innovation and creativity, and promote teamwork and collaboration among students.

ASSOCIATION COORDINATORS:



Mrs. Amitha R
Staff Coordinator
CSE Association



Nikhil Ashok
Student Coordinator



Pooja Shibikumar
Student Coordinator

TALENTS



A ROSHAN MUHAMMED
Mr. ALAPPUZHA (Title Winner)



Pooja Shibikumar
Title Winner (Magazine)

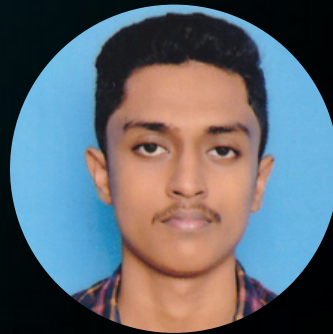
BLOGGER



DARSH S KUMAR



ABHIJITH P



ATHUL MOHAN



MRINAL M PRASAD

DESIGNERS



S8 CSE



S6 CSE



S4 CSE



S4 AI & ML

AARAVAM 2K22





AGE GAP

Ever wonder what this phrase truly means? We've all heard this classic line, "Today's kids are insane" or, "These adults just don't understand". I've always wondered what really fuelled this massive war we just accept in the name of age. The root cause often seems to point at kids just not knowing their limits, often causing said adults to lose patience. But often I ponder this one thought, why don't adults remember what it was like to be a kid? Younger and more hopeful, learning the ropes of life, stumbling and falling. It isn't easy to be young and have everything figured out. You were also once this age. Another root cause might just be kids just assuming that adults will not understand. This often results in a total stoppage of communication. Trust me. They do get it. They've been there and done that a million times over. We've often let slip a lot of issues over this issue of age gap, sweeping our issues under the rug till one of us trips and falls. Lets make a change and talk it out.

NIKHIL ASHOK
Student Chairman
S8 CSE



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Our Sister Concern : MAHAGURU INTERNATIONAL SCHOOL

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