HEX

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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:
Ms. AMITHA R

Student Editors:

Mr. Jayadev P U
Mr. Nikhil Ashok

MESSAGE FROM PRINCIPAL - DR. MANJU J

Greetings from Mahaguru Institute of Technology! I am delighted to address you all through the pages of the "Hex" newsletter, bringing exciting updates and insights from our esteemed Computer Science and Engineering (CSE) department. The CSE department at Mahaguru Institute of Technology is a dynamic hub of innovation and knowledge. With a diverse team of experienced faculty members and passionate researchers, the department is committed to providing a comprehensive and industry-relevant education to our students. Our CSE department prides itself on fostering an environment that encourages creativity and critical thinking. Through cutting-edge labs, state-of-the-art infrastructure, and interactive learning methods, we strive to equip our students with the skills and expertise needed to excel in the ever-evolving world of technology."Hex" newsletter serves as a platform to showcase the remarkable achievements of our students and faculty, as well as the groundbreaking research being conducted in the CSE domain. From organizing innovative events to participating in national and international competitions, our students continuously make us proud with their achievements. As we move forward, our commitment to excellence remains unwavering. Together, let us continue to embrace the spirit of curiosity, collaboration, and perseverance that defines the Mahaguru Institute of Technology community. I extend my best wishes to the CSE department and the "Hex" newsletter team for their dedicated efforts in sharing inspiring stories and fostering a sense of belonging among all members of our institution.

MESSAGE FROM ACADEMIC DEAN - DR. ARUN ELIAS

Our CSE department stands at the forefront of technological advancements, fueled by a team of dedicated faculty and enthusiastic students. We take pride in fostering a culture of innovation and intellectual curiosity that ignites a passion for excellence among our learners. At Mahaguru Institute of Technology, we understand that the tech industry is constantly evolving. Therefore, our CSE department offers a cutting-edge curriculum that combines theoretical knowledge with practical hands-on experience. Through industry collaborations, internships, and workshops, we ensure that our graduates are industry-ready and capable of tackling real-world challenges. The "HEX" newsletter has serves as a window into the numerous achievements and accolades earned by our CSE students and faculty members. From securing top ranks in coding competitions to publishing research papers in renowned journals, their contributions continue to make us proud. As the Dean, I am committed to fostering an environment that encourages diversity, inclusivity, and mutual respect.

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 2021-22 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 o 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.

DEPARTMENT ACTIVITIES

ANDROID APPLICATION DEVELOPMENT

The CSE department of Mahaguru Institute of Technology organized an Android application development workshop conducted by Mr. Prince V Jose, Assistant Professor of St. Joseph's College. The workshop aimed to equip participants with the necessary skills and knowledge to develop Android applications. Throughout the event, attendees learned about various aspects of Android app development, including coding, user interface design, and app deployment. Mr. Prince V Jose shared his expertise and provided valuable insights, making the workshop an insightful and beneficial experience for all participants.

ENGINEERING TRENDS IN IOT

The CSE department of Mahaguru Institute of Technology hosted an enlightening workshop on emerging trends in the Internet of Things (IoT) with Mr. Rahul Vamanan as the esteemed resource person. As an industry expert in IoT, Mr. Vamanan delved into the latest advancements and innovations within the IoT landscape. During the workshop, participants gained valuable insights into cutting-edge technologies, such as edge computing, AI integration, and blockchain applications in IoT. Mr. Vamanan's expertise and engaging presentation style ensured that the attendees left the workshop with a deeper understanding of the potential of IoT and its impact on various industries. The event was a resounding success, leaving the participants inspired to explore and contribute to the ever-evolving world of IoT.

COOLEST PROJECTS ONLINE RASBERRY PI FOUNDATION

Mr. Sebin Sunny, the IEDC Nodal Officer of Mahaguru Institute of Technology, enthusiastically organized an event showcasing the "Coolest Projects Online" by the Raspberry Pi Foundation. The event aimed to highlight innovative projects developed by students using Raspberry Pi technology. Participants showcased their creativity and technical skills by presenting a diverse range of projects, including home automation systems, robotics, environmental monitoring, and more. The event provided a platform for students to share their passion for technology and learn from each other's ideas. Mr. Sebin Sunny's guidance and encouragement inspired the participants to explore the full potential of Raspberry Pi and its applications in real-world projects

INTRODUCTION TO AI & ML

Mahaguru Institute of Technology organized an insightful webinar on "Introduction to AI & ML" featuring Mr. Karthik Suresh, a distinguished Data Scientist at 360 Technology in Toronto, Canada. The webinar aimed to provide participants with a foundational understanding of Artificial Intelligence (AI) and Machine Learning (ML) concepts. During the event, Mr. Karthik Suresh delved into the fundamentals of AI and ML, explaining their applications, algorithms, and real-world use cases. Attendees gained valuable insights into the latest trends and advancements in the field, including natural language processing, computer vision, and deep learning.

DEPARTMENT ACTIVITIES

PYTHON FOR BEGINNERS

Ronicz Technovation, a startup founded at Mahaguru Institute of Technology, organized an engaging workshop on "Python for Beginners." The workshop aimed to introduce participants to the fundamentals of programming using the popular Python language. Attendees, ranging from absolute beginners to tech enthusiasts, embarked on a journey to explore the world of Python programming.During the workshop, participants learned about Python's syntax, data types, control structures, and functions. Practical coding exercises and hands-on examples were provided to reinforce the concepts and foster a deeper understanding of Python's capabilities. The workshop also covered essential libraries and frameworks that make Python versatile for various applications, including web development, data analysis, and automation.

ENGINEERING TRENDS IN IOT

Grandeur Innovations, founded by Mr. Ranveer, organized an insightful workshop on "3D Printing" at Mahaguru Institute of Technology. The workshop aimed to introduce participants to the fascinating world of additive manufacturing and its applications across various industries.

During the workshop, Mr. Ranveer shared his expertise in 3D printing technology, explaining the fundamentals of the process, materials used, and different types of 3D printers. Attendees learned about the wide-ranging possibilities of 3D printing, including rapid prototyping, custom manufacturing, and even medical applications like creating prosthetics.

ANDROID APP DEVELOPMENT

Mahaguru Institute of Technology hosted a comprehensive workshop on "Android Application Development" led by the skilled and experienced SEBIN SUNNY. The workshop aimed to equip participants with the necessary skills to create functional and user-friendly Android applications.

Throughout the workshop, SEBIN SUNNY shared his expertise in Android development, covering essential topics such as user interface design, coding practices, and integrating various features and functionalities into Android apps. Attendees learned about the latest tools, frameworks, and best practices used in the industry.

INTRODUCTION TO ETHICAL HACKING

Mahaguru Institute of Technology conducted an enlightening workshop on "Ethical Hacking" featuring Mr. Anwar Sathic, a certified ethical hacker. The workshop aimed to introduce participants to ethical hacking, emphasizing cybersecurity and responsible hacking practices.

Mr. Anwar Sathic shared his expertise, explaining the difference between ethical hacking and malicious hacking. Attendees learned common hacking techniques and vulnerabilities while engaging in hands-on exercises to uncover weaknesses in simulated environments.
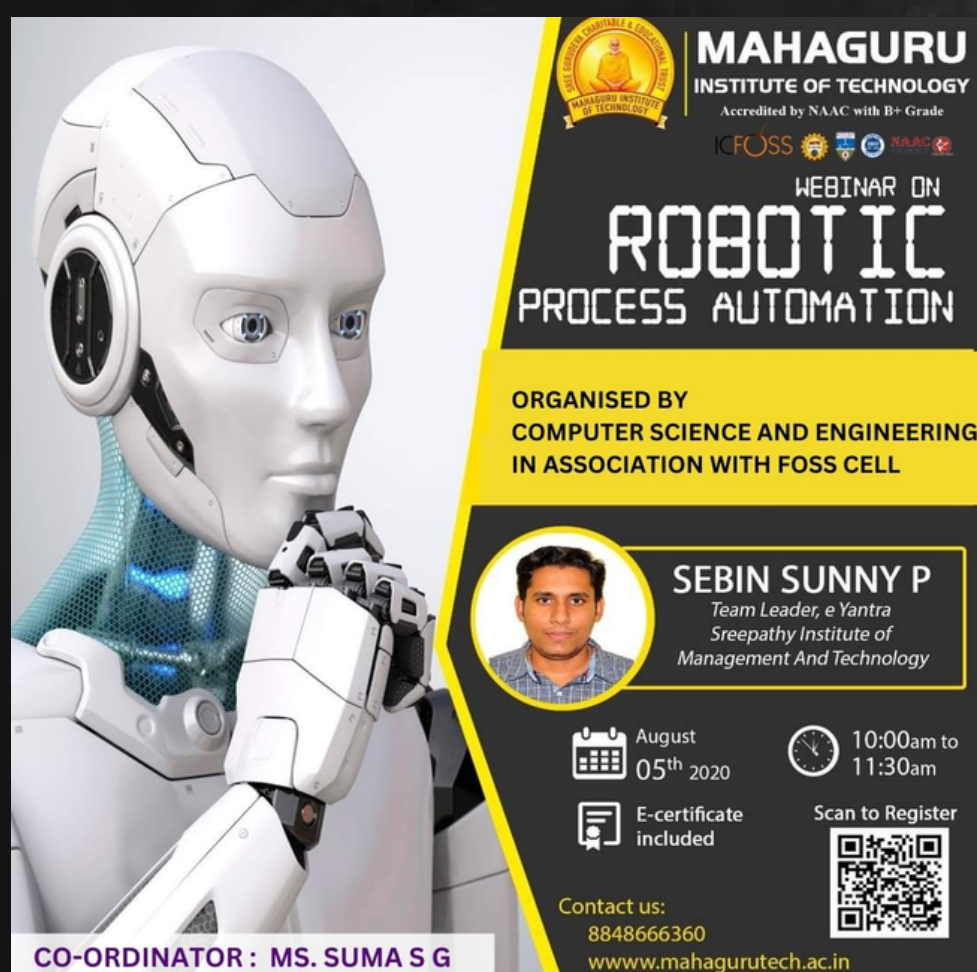
DEPARTMENT ACTIVITIES

WHY BECOME A CODER ?

An engaging webinar titled "Why Become a Coder?" was hosted by Mahaguru Institute of Technology, featuring Mr. Prabeesh Surendran, a seasoned Software Engineer from ALLIANZ Technology. The webinar aimed to inspire participants to consider a career in coding and software development. Mr. Prabeesh Surendran shared his personal journey and experiences in the tech industry, highlighting the immense potential and rewarding nature of a career in coding. During the event, he explained the significance of coding skills in today's digital era and its impact on various industries, including finance, healthcare, and entertainment.

ROBOTIC PROCESS AUTOMATION

TMahaguru Institute of Technology organized an informative webinar on "Robotic Process Automation (RPA)" featuring Mr. Sebin Sunny P, a skilled Team Leader from e Yantra. The webinar aimed to introduce participants to the fascinating world of RPA and its applications in streamlining business processes. Mr. Sebin Sunny P delved into the fundamentals of RPA, explaining its potential to automate repetitive tasks, reduce human errors, and enhance operational efficiency. During the event, attendees learned about popular RPA tools and platforms, as well as real-life case studies demonstrating the successful implementation of RPA in various industries. The webinar also addressed the challenges and best practices related to RPA adoption

WORKSHOP ON E-SIM

Mahaguru Institute of Technology conducted an enlightening workshop on "eSim - Electronic Circuit Simulation" with Mr. Sebin Sunny as the knowledgeable resource person. The workshop aimed to introduce participants to the concept of electronic circuit simulations using eSim software.

During the workshop, Mr. Sebin Sunny explained the importance of electronic circuit simulation in the field of electronics and electrical engineering. Attendees learned how eSim software allows designers and engineers to simulate and analyze circuits virtually, reducing the need for physical prototypes and facilitating faster design iterations.

The interactive sessions guided participants through hands-on exercises using the eSim software, where they learned how to create, analyze, and troubleshoot various electronic circuits

DEPARTMENT ACTIVITIES

POST COVID-19 LABOUR MARKETS BY AVODHA

Avodha, an upskilling platform, organized an insightful webinar on "Post COVID-19 Labour Markets." The webinar aimed to shed light on the changing dynamics of the job market in the aftermath of the pandemic.

During the webinar, industry experts and thought leaders shared valuable insights on the impact of COVID-19 on the labor market, emerging trends, and the evolving skills required by professionals to thrive in the new work landscape.

Attendees gained a deeper understanding of the industries that experienced growth during the pandemic and those that faced challenges. They also learned about the importance of upskilling and reskilling to adapt to the demands of the post-pandemic labor market.

FDP ON ADAPTIVE SYSTEM & MACHINE LEARNING TECHNIQUES

The CSE department of Mahaguru Institute of Technology organized an enriching 4-day Faculty Development Program (FDP) on "Adaptive Systems and Machine Learning." The FDP aimed to equip participants with the latest advancements in adaptive systems and machine learning technologies.

The esteemed resource persons for the FDP were Dr. Karthik Vaidhyanathan, Shaija N, and Ravisankar S, all renowned experts in the field. Throughout the program, they shared their vast knowledge and expertise, offering valuable insights into adaptive systems, machine learning algorithms, and their real-world applications.

The interactive sessions during the FDP provided participants with hands-on experience in designing and implementing adaptive systems and machine learning models. Attendees explored various techniques for data analysis, feature engineering, and model evaluation, deepening their understanding of the machine learning workflow.

"We know the past but cannot control it. We control the future but cannot know it."

- Claude Shannon

DEPARTMENT ACTIVITIES

EMPLOYABILITY IN IT INDUSTRY

The CSE department of Mahaguru Institute of Technology organized an insightful webinar on "Employability in the IT Industry," featuring Mr. Sharath Nair, a talented Talent Acquisition Manager. The webinar aimed to provide participants with valuable insights into the skills and attributes required to succeed in the ever-evolving IT job market.

During the webinar, Mr. Sharath Nair shared his extensive experience in talent acquisition, offering valuable advice on how to enhance employability in the IT industry. Participants learned about the key skills that recruiters seek, such as technical proficiency, problem-solving abilities, teamwork, and communication.

The interactive session allowed attendees to gain practical knowledge on how to build a compelling resume, prepare for interviews, and effectively showcase their talents to prospective employers. Mr. Sharath Nair's expertise and insider tips gave participants a competitive edge in the job search process.

ACHIEVEMENTS

- Mr.Christopher Sunil Isaac and Mr.Prince from batch were placed in Infosys Limited as System Engineers.
- Ms.Sneha Susan Sam 2016-2020 batch was placed in IBM in 2021 .
- Ms.Amalendu Anilkumar, Ms. Kripa Kunjumon and Mr.Pranav P from 2016-2020 batch were placed in STROKX TECHNOLOGIES as Junior Program Developer.
- Ms.Sreelekshmi Satheesh from 2017-2021 batch is placed in Infosys Limited.
- Ms. Aiswarya Jayaraj, Bhava S , Aiswarya S G , Sooryan S and Aditya S from 2017-2021 batch are placed in AL Khidma Systems.

TOPPERS

CELEFIESTA - ONLINE CULTURAL FEST

Celefestia, the computer science department's online cultural festival, promises to be an electrifying extravaganza of creativity and camaraderie. Join us for a week-long celebration packed with thrilling events, including meme making, reel creation, music contests, quizzes, debugging challenges, logo designing, and daring games that will test your wit and skills. Whether you're a coding enthusiast, a design maestro, or simply someone who loves to have fun, there's something for everyone at Celefestia. Don't miss out on this unique opportunity to showcase your talent and connect with like-minded tech aficionados from around the globe. Virtual experiences and unforgettable memories at Celefestia!
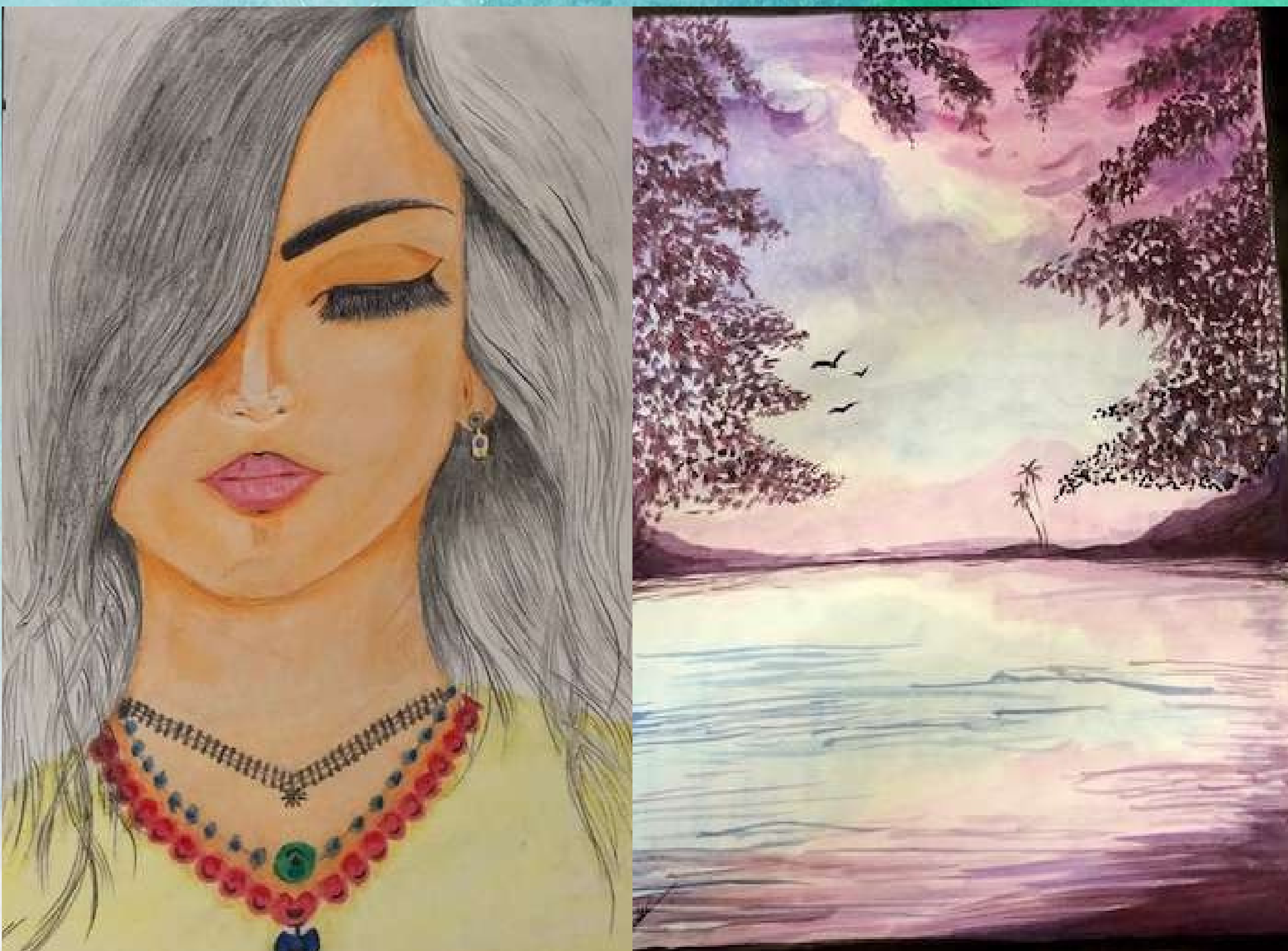

MAHAGURU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CELEFIESTA
DEBUGGING

1st Anandhu R Das S4 CSE
2nd Bovaz Stanly S6 CSE
3rd Darsh S Kuma S2 CSE
Congratulations!

MAHAGURU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CELEFIESTA
MUSIC COMPETITION

1st Vaishnavi R S6 CSE
2nd Athira M S6 CSE
Congratulations!

MAHAGURU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CELEFIESTA
VIDEO MAKING

1st Pranav S2 CSE
2nd Aravind K S2 CSE
3rd Aswathy Suresh S8 CSE
Congratulations!

MAHAGURU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CELEFIESTA
LIVE DRAWING

1st Ardra Krishnakumar S8 CSE
2nd Adhya Das S2 CSE
3rd Vibitha B S6 CSE
Congratulations!

MAHAGURU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CELEFIESTA
TROLL MAKING

1st Gayathri G Murali S4 CSE
2nd Akhil Raju S4 CSE
3rd Jyothish A S2 CSE
Congratulations!

MAHAGURU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CELEFIESTA
MUSIC COMPETITION – INSTRUMENTAL

1st Vishnuprasad S6 CSE
Congratulations!

MAHAGURU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CELEFIESTA
SOLO DANCE

1st DhanyaMol S S6 CSE
2nd Bhavana S S8 CSE
3rd Dhyuthi S Vijay S4 CSE
Congratulations!

MAHAGURU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CELEFIESTA
PHOTOGRAPHY CONTEST

1st Akhila S S4 CSE
2nd Devu J S8 CSE
3rd Prabhudeva M S6 CSE
Congratulations!

MAHAGURU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CELEFIESTA
REELS CONTEST

Bhavana S8 CSE
2nd Sruthy Dharan S8 CSE
3rd Meenu S2 CSE
Rimshina N R S2 CSE
Congratulations!

MAHAGURU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CELEFIESTA
LOGO REDESIGN

1st Jins Francis S8 CSE
2nd Devika Saha S6 CSE
3rd Meenu J S8 CSE
Congratulations!

MAHAGURU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CELEFIESTA
DARE GAMES

1st Jins Francis S8 CSE
2nd Rimshina S2 CSE
3rd Prabhudeva S6 CSE
Congratulations!

Mrs. Neethu Krishna
Staff Coordinator
CSE MIT

ART GALLERY

Devika Saha
S6

Kavya Sulthan
S6

Gayathri G Murali
S4

MAHAGURU INSTITUTE OF TECHNOLOGY

Approved by AICTE & Affilated to APJ Abdul Kalam Technolofical University

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