

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CS MAIL

NEWSLETTER VOLUME 9, ISSUE II, AUG 2021

Dear Readers,

It is with great pleasure that we bring you **Volume 9, Issue II** of our department newsletter "**CS MAIL**". The current newsletter highlights the activities of the department, achievements of faculty and students during the past six months. It also features workshop organized and attended, paper publication details and other social activity undertaken from CS Department. Your valuable comments and suggestions are appreciated.

We wish all the readers an enjoyable reading.

VISION OF THE DEPARTMENT

To develop highly talented individuals in Computer Science and Engineering to deal with real world challenges in industry, education, research and society.

MISSION OF THE DEPARTMENT

- To inculcate professional behavior, Strong ethical values, innovative research capabilities and leadership abilities in the young minds & to provide a teaching environment that emphasizes depth, originality and critical thinking.
- Motivate students to put their thoughts and ideas adoptable by industry or to pursue higher studies leading to research.

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

- Empower students with a strong basis in the mathematical, scientific and engineering fundamentals to solve computational problems and to prepare them for employment, higher learning and R&D.

- Gain technical knowledge, skills and awareness of current technologies of computer science engineering and to develop an ability to design and provide novel engineering solutions for software/hardware problems through entrepreneurial skills.
- Exposure to emerging technologies and work in teams on interdisciplinary projects with effective communication skills and leadership qualities.
- Ability to function ethically and responsibly in a rapidly changing environment by applying innovative ideas in the latest technology, to become effective professionals in Computer Science to bear a life-long career in related areas.

PROGRAM SPECIFIC OUTCOMES (PSO'S)

- Ability to apply skills in the field of algorithms, database design, web design, cloud computing and data analytics.
- Apply knowledge in the field of computer networks for building network and internet based applications.

Message From Principal

ATMECE has emerged as a prominent institute offering quality education. All round continuous changes in infrastructure and academics standard have helped us to build a brand name. It gives me immense pleasure to introduce the **Volume 9, Issue II OF THE HALF YEARLY NEWSLETTER "CS MAIL"** of Computer Science Department. I am pleased to know that the newsletter will showcase the activities and credentials of CS&E department. I hope this will become a platform for students and staff to exhibit their talents in science and technology. On behalf of management, I appreciate the newsletter committee for their efforts in bringing out this edition.



I wish the editorial all success!!!

**Regards
Dr L Basavaraj
Principal,
ATMECE**

DON'T WAIT FOR OPPORTUNITY CREATE IT

Message From Chief Editor



**DrPuttegowda D
HoD, CS&E**

Department of Computer Science & Engineering commits to work towards developing dedicated professional with a rich blend of competent, technical, managerial and social skills to contribute nation building. I am happy to inform that our department newsletter **"CS MAIL"** is being released in the month of Aug2021. The newsletter encourage departments technical activities and also motivate students to bring out their innovative ideas, hidden talents and also provide a common platform to share their knowledge, in turn gain technical knowledge.

I wish all the readers an enjoyable reading!!!

EDITORIAL TEAM

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DrPuttegowda D
HOD, CS&E

Editor
Ms. Lavanya N
Assistant Professor,
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Student Cordinators
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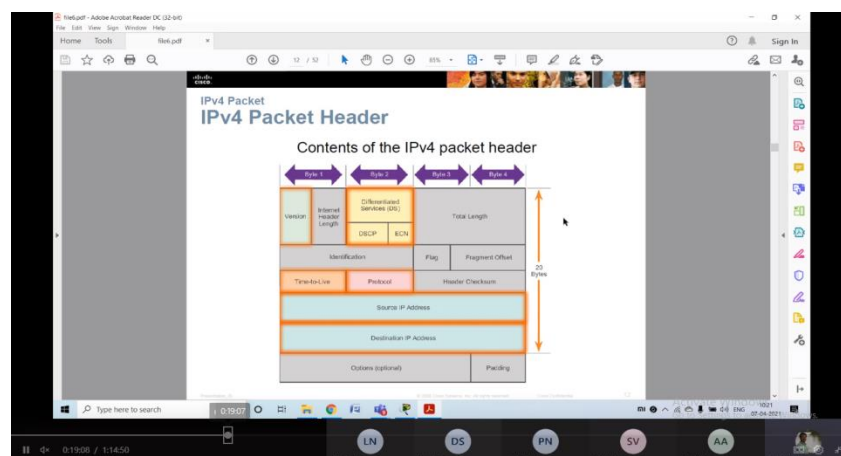
A DREAM BECOMES A GOAL WHEN ACTION IS TAKEN TOWARD ITS ACHIEVEMENT

DEPARTMENT ACTIVITIES

“NETWORK-KING”

The Department of Computer Science and Engineering of ATME College of Engineering organized five days FDP on “Network-king” from 05/04/2021 to 09/04/2021. The resource persons were Mr Anil Kumar and Mr Kiran B, Assiatant professor, ATMECE. This course is designed to impart knowledge about detailed knowledge of Computer Networks, various protocols used in Communication, Managing and configuring Cisco Switches and Routers and various WAN technologies.

The Department of Computer Sciences Engineering had signed MoU with CISCO Systems, Bangalore on 21-01-2018. The CISCO center of excellence on Advanced Networking available in the department provides world class networking infrastructure. The faculty members have been constantly trained by CISCO Networking Academy, to offer the latest industry relevant networking curriculum.



“ONLINE WORKSHOP ON BASICS OF OBJECT ORIENTED PROGRAMMING USING C++ ”

The department of Computer Science and Engineering, ATME College of Engineering, Mysore organized Three Day Workshop on Basics of Object Oriented Programming using C++ for IV Sem Students from 19th April 2021 to 21st April 2021 at 2.00 pm to 5.00 pm. The resource Persons are Kiran B, Asst. Prof. Dept. of CSE, ATMECE, Mysuru.

“IMPORTANCE OF DATA SCIENCE IN MODERN WORLD”

The Department of Computer Science and Engineering of ATME College of Engineering organized a webinar on the topic “Importance of Data science in modern world” on : 22/06/21. The resource person was : **MrShashank S** , an Application Specialist, Koch Business Solution. This webinar was organized to impart knowledge about data science in modern days for students. Data science is an important field focused on understanding and drawing specific business, financial, manufacturing and medical research and forecasting. The data science process is about analyzing, visualizing, extracting, managing and storing data to create insights from analytics. These insights and reports help companies analyze their marketing strategies, make powerful data-driven decisions and create better advertisements. Easy access to continuously growing sets and data is possible in collaboration with financial technology companies, who use technology to innovate and enhance traditional financial products and services.



“CAREER PATHWAY & STUDY ABROAD OPPURTUNITIES”

The Department of Computer Science and Engineering of ATME College of Engineering organized a webinar on the topic “CAREER PATHWAY AND STUDY ABROAD OPPORTUNITIES”. The Objective of the webinar was to help aspiring students to acquire a challenging engineering career in life. Webinar session was conducted on June 23, 2021 from 3:30 pm to 4:30 pm.

The Speaker of the webinar was Ms Nandini M, Team Leader @ AECC GLOBAL. She gave an Overview on the Importance of Education, also provided insights on career prospects. She also spoke about the studies in Abroad. She mainly discussed about some of the topics that are mentioned below,

- 21st century-Importance of Education
- Mentorship
- Our belief
- Why study abroad
- Who are we
- Our study destinations
- Student spotlight
- Important Facts
- Expenses and ROI
- Conclusion

“HACKFEST -2021”

Department of Computer Science & Engineering had organized 2 days National level hackathon(online) from 2nd to 3rd July 2021. There were around 43 groups with each group had 2-3 participants and entire process was conducted in online mode. Several participants came from eminent institution across the nation. The goal of a hackathon is to create functioning software or hardware by the end of the event. Hackathons tend to have a specific focus, which can include the programming language used.

The cash prize of rupees 8000 for the first place and rupees 4000 for the second place was awarded to encourage the students to participate in the events. The E-certificates were also provided to all the registered participants. The main objectives of the events were to provide space for the students to showcase their technical skills and also provided a platform for creating solutions for social causes, to inculcate teamwork spirit among the students.

Day-1

Chief Guest: Dr. Saranya, customer success manager GUVI chennai

Guest of honour: Mrs.Sahanaramesh, business management professional Sony India

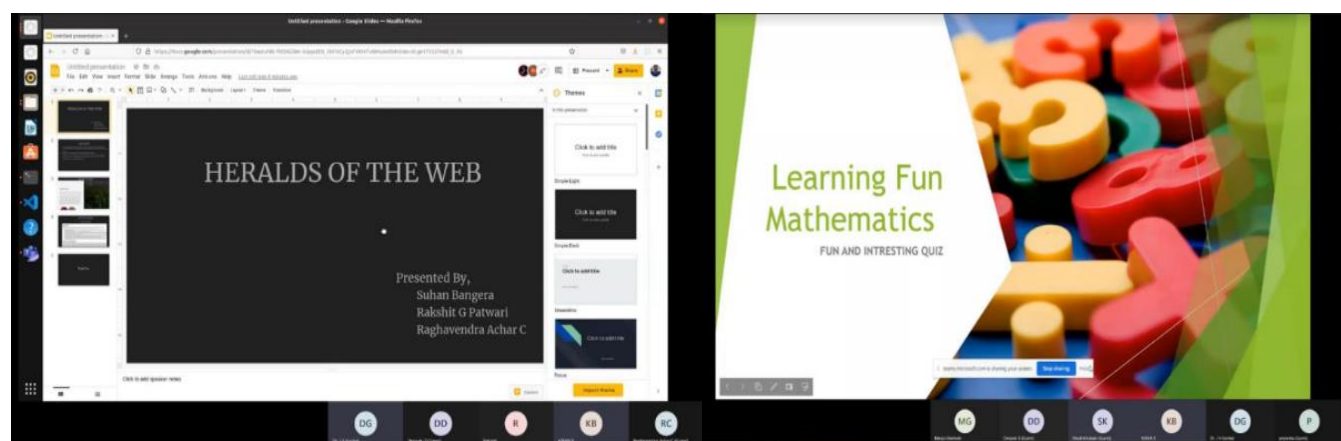
Day 2

Chief Guest: Smt. K A Anithavenkatesh, state student co-ordinator CSI Karnataka

Guest of honour: Prof. Mohamed Minaz, chairman CSI Mysore

The winners of the events were as follows:

	Team Name	Participants	Institution
Winner	Coding Geeks	Their zephanial, Nithinkumar, Soumya surrender	Indian institute of information technology and management, Gwalior
Runner	Buzzinga	Goutham M, Dhanjaya S	KSIT, Bengaluru



FACULTY PARTICIPATION

CONFERENCES/ JOURNALS

1. Dr. Puttegowda D, Rajeshwari D, "A Hybrid Approach With Machine Learning Towards Opinion Mining For Complex Textual Content", 10th Computer Science On-line Conference, April 2021.
2. Dr. Puttegowda D, "Enhanced Wi-Fi-Li-Fi system", International Conference on Recent Trends in Science and Technology (ICRTST-2021) July 2021.
3. Dr. Puttegowda D, Bhoomika P, Chandana A S, Krithika G, Srivathsa S Raghavan, "A Robust Approach to Detect the Text in Images and Video Frames", International Conference on Recent Trends in Science and Technology (ICRTST-2021) July 2021.
4. Dr. J V Gorabal, "Survey on Multimodal Biometric Authentication System using Fingerveins and fusion at match Level", International Conference on Recent Trends in Science and Technology (ICRTST-2021) July 2021.
5. Mr Anilkumar C J, Madhushree S, Meghana R, Mohammed Shoaib, Farhaz Khan, "Early Prediction of Sepsis from Clinical Data", International Conference on Recent Trends in Science and Technology (ICRTST-2021) July 2021.
6. Mr Anil Kumar B H, Mrs Kavyashree E D, "An Epigrammatic Study on Android Architecture, Framework and its Challenges.", International Conference on Recent Trends in Science and Technology (ICRTST-2021) July 2021.
7. Sneha N P, Rakshitha M S, Rakshitha Y. S, Renuka S, Rakhith Kumar, "An Android Application for farmers to sell their product at better rate", International Conference on Recent Trends in Science and Technology (ICRTST-2021) July 2021.
8. Mr Raghuram A S, Mr Kiran B, "Survey on Traffic Accident Monitoring System", International Conference on Recent Trends in Science and Technology (ICRTST-2021) July 2021.
9. Jyothi M Patil, "Early Detection of Diabetes using Machine Learning", International Conference on Recent Trends in Science and Technology (ICRTST-2021) July 2021.
10. Sushma V, "Delay Analysis and Efficient Scheduling Policies for Multihop Wireless Networks", International Conference on Recent Trends in Science and Technology (ICRTST-2021) July 2021.

11. Sushma V, Rachana G S, Nandakishor B M, Nischal R, Tejas K,” **Detection of Malicious Content or Web Links Related to Cyber Frauds**”, International Conference on Recent Trends in Science and Technology(ICRTST-2021) July 2021.
12. Sushma V, Mohammed Naumaan, ShaziaBaig, Sheeban E Tamanna, Sharvani N Pande,” **Recognition of Alzheimer’s Disease Using Mri Scans By Artificial Neural Network**”, International Conference on Recent Trends in Science and Technology(ICRTST-2021) July 2021.
13. Keerthana M M,” **Implementation of Protein Function Detection and Classification using CNN Algorithm**”, International Journal of Innovative Research in Computer and Communication Engineering, June 2021.
14. Lavanya N, Akshatha A ,” **Survey on algorithms of data mining**”, International Conference on Recent Trends in Science and Technology(ICRTST-2021) July 2021.
15. Lavanya N, FaizaFirdaus, KulsumKhanum, Tania Farheen, Lavanya S,” **Better & faster emergency care during accidents and vehicle impact**”, International Conference on Recent Trends in Science and Technology(ICRTST-2021) July 2021.

TECHNICAL ARTICLES

“Top 5 Trending Technologies to Master in 2021”

Technology is constantly updating at such a rapid pace that it seems it is might be faster than light! A technology or a programming language that is making the rounds this week may be obsolete by the next few days! As more and more funds are invested in research and development, computer scientists and professionals are constantly tweaking and improving existing technologies to get the most out of them. I have listed the top 5 trending technologies, which are expected to acquire a huge market in 2021.

1. Machine Learning
2. Augmented Reality & Virtual Reality
3. DevOps
4. 5G
5. Cognitive Computing

1) MACHINE LEARNING

Machine Learning (ML) is a set of algorithms that find and apply patterns to data. ML is a trending technology that discovers rules causing a problem by using the data and finding a solution to that problem.

Today, machine learning is used in a wide range of applications. Perhaps one of the most well-known examples of machine learning in action is the recommendation engine that powers Facebook's news feed. Facebook uses machine learning to personalize how each member's feed is delivered. If a member frequently stops to read a particular group's posts, the recommendation engine will start to show more of that group's activity earlier in the feed.

2) AUGMENTED REALITY & VIRTUALL REALITY

Virtual Reality is the next big thing in the world. This modern technology generates sounds, realistic images, and other sensations that will leave you in a spectacular imaginary world.

It is used in two different ways as below:

- Augmented Reality is used in enhancing and creating an imaginary world for the purpose of entertainment and gaming, for example, 3D movies, video games, etc.

- It is also used in training software and people to work in real-life environments by creating a simulation of the reality where they can be trained beforehand, for example, flight simulators for pilots, etc.

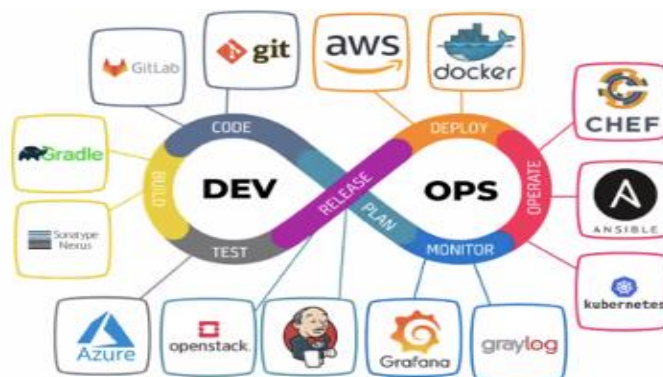
Augmented reality is a trending technology that can develop apps on mobile devices to blend digital components with the real world. It is used in pop-out 3D emails, text messages, photos, etc., and it also displays score overlays on telecasted sports and games.

3) DEVOPS

'DevOps' is an enterprise software development phrase, which has emerged from the terms 'Development' and 'Operations' of the software development life cycle (SDLC) and is a part of the Cloud technology. As the name suggests, DevOps encourages collaboration, communication, automation, and integration among the IT operations team and the developers to improve the quality and speed of delivering software. It is considered the offspring of the agile software development method.

Benefits of DevOps, a trending technology, are mentioned below:

- Reliability
- Scaling power
- Rapid development
- Fast delivery
- Security



4) 5G

5G is the Fifth Generation mobile broadband, beyond Long-term Evolution (LTE) mobile networks. It is a game-changer and a trending technology, that improves our network connections. Through this, we will get faster, stable, and more secure connections. Hence, shortly, we will have 5G mobiles in our hands.

Some of the applications of the 5G network are:

- Improved broadband
- IoT
- Healthcare advancements
- Remote device control
- Autonomous vehicles

To become a 5G Telecom Engineer, candidates need to be good at technical skills and they should have a good understanding of the advanced technologies, such as SON, mobile edge computing, network slicing, mesh network, etc.

5) COGNITIVE COMPUTING

Cognitive Computing technology integrates with certain concepts in Artificial Intelligence (AI), such as natural language processing (NLP), Machine Learning (ML), reasoning, speech recognition, etc., that help in improving human decision-making.

The advantages of Cognitive Computing are as follows:

- Improved customer interactions
- Accurate data analysis
- More efficient business processes

BY
DEPARTMENT OF CS&E FACULTIES

THINK PEACE AND LIVE GREEN...



“MAKE EVERY DROP OF WATER COUNT”

Dear Readers,

Your advice or suggestions will be much appreciated and are most welcome!!!

Please mail your articles to csdept@atme.in

BE WILLING TO BE A BEGINNER EVERY SINGLE MORNING