Department of CSE

CS Mail

News Letter

News Headlines

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Dear Readers,

It is with great pleasure that we bring you Volume 14, Issue I 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.

- Exposure to emerging technologies and work in teams on interdisciplinary projects with effective communication skills and leadership qualities.

- 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.

- 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.
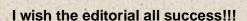
A T M E
College of Engineering

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 14, Issue I 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

Dr. Putte Gowda D
Professor & Head

Message From Chief Editor

Dr. Puttegowda 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-volume 14 Issue I " is being released in the month of Aug 2025. 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

Chairman
Dr L Basavaraj Prinicpal,
ATMECE

Chief Editor
Dr Puttegowda D.,
HOD, CS&E

Editor
Mrs.Ashwini P.,
Assistant Professor, CS&E

Student Coordinators
Mr.Dhanush H
Ms. Kalpana Lahari

Department Activities

Introduction to Block chain

The Department of Computer Science and Engineering has organized a technical talk for 5th and 3rd semester students on **8th Nov 2024** at Seminar Hall. The technical talk focused on giving an insight into Blockchain technology, importance and benefits of blockchain. The talk also focused on discussing the carrier opportunities and future of blockchain opportunities. The speaker for this technical talk is **Mr. Sreenivas Aprameya**, Founder of Accelchain.

Speaker addressing the students

Cyber Hygiene Practices to achieve cyber safety

The Department of Computer Science and Engineering has organized a technical talk for 5th and 3rd semester students on **25th Nov 2024** . The technical talk focused on giving an insight into Cyber Hygiene Practice. The resource person for the workshop was **Mr Vipul Kumar,Project Associate, CDAC Bangalore**. Cyber hygiene practices are a set of actions that can help keep your devices, networks, data, and users safe from cyber threats. The practices and procedures that individuals and organizations use to maintain the health and security resilience of their systems, devices, networks, and data.

Artificial Intelligence, Machine Learning and Deep Learning in the Data Revolution Era: Progress and Applications

The three-day workshop Faculty development program was organized on "Artificial Intelligence, Machine Learning and Deep Learning in the Data Revolution Era: Progress and Applications" from 3rd Feb,2025 to 5th Feb, 2025. The event commenced on 3rd February 2025 with a grand inaugural ceremony graced by our Chief Guest, Dr. Thotreingam Kasar, an esteemed expert in the field of AR/ VR and AI. We were also honored by the presence of our beloved Principal, Dr. L. Basavaraj, and our Advisory Committee Members Dr. Bhagashree SR, Dean Research and Dr. Srinivasa K, Dean Student Affairs, Convenors Dr. Puttegowda D and Dr. Anil Kumar C J, whose continuous encouragement and guidance made this FDP a grand success. The 3-Day Faculty Development Program (FDP) witnessed active participation, with 50 attendees from both academic institutions and industry.
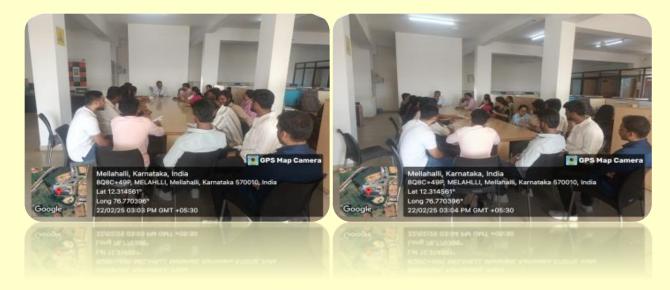
ALUMNI Meet

Alumni Meet was organized on 22nd, Feb 2025. Alumni's were invited for the event. Juniors gave warm welcome to their seniors (Alumni). During this meet, the alumni community shared their experience, struggle what they faced after stepping out of the institution with their juniors, faculties and HOD. After interaction section, lunch was arranged for all the alumni's.

Ayudha Pooje

Ayudha pooja or Maha Navami, on the 9th day of Navratri, is one of the most significant aspects of the nine days which is celebrated by worshipping tool and equipment. On 10th October, 2024 Ayudha pooje festival is celebrated, where all teaching and nonteaching staffs including HOD were present. On this occasion, computers, books and other equipment was worshipped.

PLACEMENTS

PLACEMENTS - 2024 CONGRATULATIONS

TEJAS S
CSE
ROBOYO 4.5 LPA

Congratulations to All !!!!

Ms.Rakshitha Kuamr HK, Mr. Mohammed Afwan, Mr.Kushal R, Ms.Prarthana Uthappa, Mr. S.N.Varshith and Mr.Tejas S, 7th semester students From the Department of CSE have placed in ROBOYO with 4.5 LPA.

Faculty Publications

Sl. No.	Authors Name (As in the journal)	Title of the Paper	Journal Name	Volume No / Issue No/ Pg. No	Date of Publication	DOI	ISSN/ISBN	Indexing
1	Naitik S.T., J. V. Gorabal	Design and Development of Multimodal Biometric System Using Finger Veins and Iris by CNN Integrated with Hybrid SIO and Whale Optimization Techniques	International Journal of Interactive Mobile Technologies	18/22/97-114	Nov-24	https://doi.org/ 10.3991/ ijim.v18i22.508 65	1865-7923	Scopus

Sl. No.	Authors Name	Coressponding Author(s)	Title of the Book	Title of the Chapter	ISBN	Pg. No	Publisher	Date of Publication	Indexing	Link to the journal
1	Manjunath Ramanna Lamani, K. Padmaja, V. Asha, M. Somesha, B. L. Shilpa & M. Anand	Manjunath Ramanna Lamani	Data driven reproductive Health	Leveraging Natural Language Processing for Enhanced Pharmacovigilance in Reproductive Health	978-981-97-7451-7	143 – 155	Springer Singapore	Oct-24	Springer	https://link.springer.com/chapter/10.1007/978-981-97-7451-7_8

Toppers List

4th Semester

Sl. No		Name of the Student	SGPA
1	4AD22CS086	RAJENDRA A	9.47
2	4AD22CS093	ROOPASHREE K N NAYAK	9.47
3	4AD22CS088	RAKSHITHA B A	9.26
4	4AD22CS125	YASHIKA K R	9.26

6th Semester

Sl. No	USN	Name of the Student	SGPA
1	4AD21CS044	M K DECHAMMA	9.59
2	4AD21CS069	PRARTHANA UTHAPPA	9.45
3	4AD21CS057	NEETHUSHREE BJ	9.27

8th Semester

Sl. No	USN	Name of the Student	SGPA
1	4AD20CS010	AMULYA SHETTY	9.67
2	4AD20CS032	KAVANA K R	9.67
3	4AD20CS034	LAKSHMI C	9.67
4	4AD20CS067	PUSHPA M	9.67
5	4AD20CS088	SONUPRIYA	9.67

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"Dream is not that which you see while sleeping it is something that does not let you sleep."
— A.P.J. Abdul Kalam

Students Achievement

Congratulations!!

Mr.Shivashankar B Naik and Mr.Rahul R 5th semester students, Participated in Men MCICT Inter-Collegiate Softball Championship 2024-2025 organized by SBRR Mahajana FGC, Mysure on 25-26, November 2024 and **Emerged as a champions** .

Congratulations!!

Ms.Pooja Hebbar, 7th sem student, Participated in women MCICT Inter-Collegiate Softball Championship 2024-2025 organized by SBRR Mahajana FGC, Mysure on 25-26, November 2024 and **Emerged as a champions** .

Congratulations!!

- **Ms.Nischitha Bhogappa**, 7th semester, CSE had participated in VTU intercollegiate softball game on Nov 9th and 19th,2024 held in Chitradurga and won 3rd place.

- Participated in renegades tournament from 24th to 27th Sep,2024 and got first prize.

- Participated in All India inter university base ball match held at Pune and received player of the match.

- Participated in baseball and Softball match organized by SBRR MFGC,Mysore on 14th Aug and 25th of Nov,2024 received first place in both the match.

- Participated in Table tennis tournament organized by MIT first grade college on 7th Sep,2024 and got runner up prize.

- Participated in Table tennis tournament organized by VVCE from 16th to 18th Oct,2024 received first price.

- Participated in throwball tournament organized by ATMECE on 7th & 8th Dec,2024 and got 1st place

ARTICLES

IMPACT OF ARTIFICIAL INTELLIGENCE ON MENTAL HEALTH

Artificial intelligence (AI) is making waves in many fields, and mental health care is no exception. With its ability to analyze data, recognize patterns, and offer support, AI is helping to improve how we diagnose, treat, and manage mental health issues. From virtual therapy bots to early crisis detection, AI is transforming the mental health landscape.

- ✓ **Better Diagnosis and Early Detection** Traditionally, diagnosing mental health conditions like depression or anxiety relied on talking to a therapist and observing symptoms. But now, AI can help detect signs of mental health issues by analyzing things like speech patterns, facial expressions, or even how someone types. For example, AI chatbots like Woebot talk to users and check in on their mental state. These tools help spot problems early, sometimes before people even realize they need help, making it easier to treat them before things get worse.

- ✓ **AI-Driven Therapy Tools AI** :is also providing new ways for people to get therapy. Virtual assistants and chatbots, such as Woebot, offer support at any time of day, providing easy access to mental health help. These tools use cognitivebehavioral therapy (CBT) techniques to guide users through mental health exercises and coping strategies, making it easier for people to take care of their mental well-being on their own. These AI tools also help therapists by giving them insights about their patients, helping them make more personalized treatment plans.

- ✓ **Preventing Mental Health Crises** :One of the biggest benefits of AI is its ability to predict and prevent mental health crises. By looking at patterns in a person's behavior or communication,
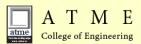
AI can identify when someone may be at risk of harming themselves or having a breakdown. This allows for early intervention, such as a check-in with a therapist or a loved one, before things escalate. For example, AI can analyze social media posts or conversations to spot signs of distress, alerting people when they might need help.

- ✓ **Making Mental Health Care** More Accessible Access to mental health care is a big challenge, especially for people in rural or underserved areas. AI is helping to bridge this gap by offering online tools that people can use anywhere, anytime. Virtual assistants and therapy chatbots are available around the clock, making it easier for people to get support when they need it most, even if they don't have access to a therapist nearby. AI can also help reduce the strain on mental health professionals by handling some of the initial assessments or offering support in between therapy sessions, allowing therapists to focus on more serious cases.

- ✓ **Privacy and Ethical Concern**s While AI offers a lot of promise, there are also concerns about privacy and ethics. Many AI tools collect sensitive data, like conversations and health information, which need to be kept secure. If not handled properly, this data could be misused. Another concern is the potential for bias in AI systems. If AI is trained on biased data, it could provide incorrect or unfair assessments, especially for certain groups of people. Ensuring fairness and privacy is essential to making sure AI in mental health works for everyone.

By

Ms.Kalpana Lahari,
6th "A", CSE.

FOOTball: The World's Game

Introduction

Football, widely known as soccer in places like the United States and Australia, stands as the undisputed king of sports, weaving itself into the fabric of societies worldwide. With an estimated 4 billion followers, it's not just a game it's a global language spoken through kicks, cheers, and breathless anticipation. From the dusty streets of Rio de Janeiro to the manicured pitches of London, football thrives in every environment, requiring little more than a ball and a patch of ground. Its history stretches back centuries, evolving into a modern spectacle that blends raw athleticism with emotional resonance. Whether it's the electric atmosphere of a World Cup final, the quiet pride of a local match, or the dreams of young players everywhere, football captures something universal: the thrill of competition and the joy of connection. This article dives deeper into what football entails, how it's played, and why it remains an enduring force in human culture.

Description

Football is a dynamic team sport pitting two squads of 11 players against each other, each striving to score by propelling a spherical ball into the opponent's goal. The playing field, or pitch, is a rectangle typically measuring 100-110 meters long and 64-75 meters wide, framed by goalposts at each end 8 yards wide and 8 feet high. The rules dictate that players can use any part of their body except their hands and arms to control, pass, and shoot the ball, with one exception: the goalkeeper, who can use their hands within the penalty area surrounding their goal. A standard match unfolds over 90 minutes, divided into two 45-minute halves, with a 15-minute halftime break. If the score is tied, outcomes may be settled by extra time or penalty shootouts, depending on the competition.

The game's simplicity belies its tactical depth. The offside rule, for instance, prevents attackers from gaining an unfair advantage by lingering too close to the goal unless they're behind the ball or defenders when it's played adding a layer of timing and coordination. Fouls, such as tripping or pushing, lead to free kicks or penalties, while yellow and red cards discipline misconduct. A referee oversees the action, often supported in professional games by assistants and technologies like VAR (Video Assistant Referee), which reviews key decisions to ensure accuracy, though not without controversy among fans who cherish the game's raw flow.

Players assume distinct roles that shape the contest. Strikers, or forwards, like Erling Haaland or Kylian Mbappé, are the sharpshooters, tasked with piercing defenses and scoring. Midfielders, such as Luka Modrić, are the architects, controlling possession, setting the tempo, and linking attack with defense. Defenders, like Virgil van Dijk, form a wall to thwart opponents, relying on strength and positioning. Goalkeepers, such as Alisson Becker, are the final guardians, using agility and reflexes to block shots that breach the backline. Coaches orchestrate these roles into strategies some teams press aggressively, others counterattack with precision making every match a chess game with running shoes.

Football's reach extends far beyond mechanics. It's a cultural colossus, deeply embedded in national identities. In Brazil, it's an art form, with legends like Pelé and Ronaldinho dazzling with flair born from street games. In Europe, clubs like Bayern Munich and Juventus are dynasties, their rivalries like Spain's El Clásico between Real Madrid and Barcelona fueling generational sagas. Africa has gifted the world stars like Didier Drogba, whose success inspires millions. The FIFA World Cup, held every four years, is the sport's grandest stage, where nations clash and heroes are made—think France's 2018 triumph or Argentina's 2022 glory led by Lionel Messi. Club competitions, such as the UEFA Champions League, showcase the planet's best talent, drawing viewership that rivals the Super Bowl.

In 2025, football is both timeless and cutting-edge. Innovations like goal-line technology and data analytics sharpen the game, while the women's side highlighted by players like Aitana Bonmatí and Megan Rapinoe gains unprecedented traction, challenging old norms. Social media amplifies its pulse, with fans dissecting every goal, transfer, and referee call on platforms like X. Yet at its heart, football remains elemental: a ball, a goal, and the chance to dream. It's a sport where a single moment a bicycle kick, a diving save can echo for decades, and where anyone, anywhere, can join the dance.

Mr.Dishanth,
6th Sem,CSE.

The Impact Of 5G on Society

Introduction

The most satisfying and reliefing thing in current years is to hear about network that is availability of internet. "The measure of intelligence is its ability to change", said by Albert Einstein can be seen in wireless network generation. So, the question is why is it necessary to update or change accordingly? It is because the society is demanding for quick results. Quick results is given by the updated wireless network generation that is '5G', being the most useful and efficient technology. The impact of 5G on the society is incredible. It has profound impact in all the sectors.

Description:

It has profound impact in all the sectors.

- **Economic impact**-it is highly beneficiary in economic growth.5G is expected to create over 1 million jobs and is estimated to add $1.3trillion to global GDP by 2030.This growth will be fueled by increased efficiencies and productivity across various sectors, including industrial manufacturing, healthcare, smart utilities consumer and media, and financial services. Overall, the economic impact will transform the world significantly.

- **Social impact**-5G extremely helpful to society. It is playing an important role in healthcare, education and also in building smart cities. It makes an individual to know the symptoms of the various diseases via internet and can make them aware of taking good care of their health. It is significant in education making the students(learners) easy to learn different concepts. There are multiple sources available in google or internet by which learners can collect information and build their knowledge. Also it provides many interesting thoughts about making environment a smart city. Socially it is bringing multiple changes making everything easier.

Despite, economic and social impact there are many more sectors where 5G impacts significantly. It looks pretty to focus only on the good impact but as it is said there is no good without bad, even the 5G is with some bad impacts. Majorly, it can really make an individual lazier as it is providing everything instantly, secondly due to addiction it can drive a person crazy.

- Internet is so powerful that it can photoshop or edit in a such a way that it can take a life of person. Also, it is isolating an individual very deeply, even from their own family. As society is highly dependent on internet, it cannot step out and think of living without internet.

Every ray of light can lead us a way which might either be good or bad similarly 5G is a light with many rays including good and bad, it is our responsibility to choose good or bad. Life seems very easier since 5G is arrived to make it better and worthy it is necessary to have some boundaries to oneself. In future, wireless technology can upgrade adversely which might be a boon or curse to the society. Spending quality time on internet, making a proper use of it can progress the society. In my opinion updating, upgrading and changing accordingly to suit the society is fine but detaching from the ancient roots is nothing but ruining the peace of life. So, whatever the changes are! its only upto you to choose the change at your own cost.

Ms.Chetana Guddappa Vadnikoppa CSE.