RAJEEV GANDHI MEMORIAL COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)
NANDYAL

(ESTD-1995)

EDITORIAL BOARD

About RGMCET

Rajeev Gandhi Memorial College of Engineering and Technologywas founded in the year 1995. It is located in a 32.04 acresprawling campus on NH-40 (old NH-18) at Nandyal, Kurnool(Dist), Andhra Pradesh.

It is the dedicated commitment and efforts of our Chairman,the man with vision "Vidyarathna" Dr. M. Santhiramudu, whostarted the institution with a motto "EDUCATION FOR PEACE". RGMCET is a road of elegant educational journey, yet path breaking in different dimensions.

Rajeev Gandhi Memorial College of Engineering & Technology (Autonomous) is Ranked in the band of 251-300 in Engineering category as per National Institutional Ranking Framework (NIRF) - 2020, Ministry of Human Resource Development (MHRD), Govt. of India.

RGMCET Vision

- To develop this rural based engineering college into an institute of technical education with global standards.
- To become an institute of excellence which contributesto the needs of society.
- To inculcate value based education with noble goal of "Education for peace and progress".

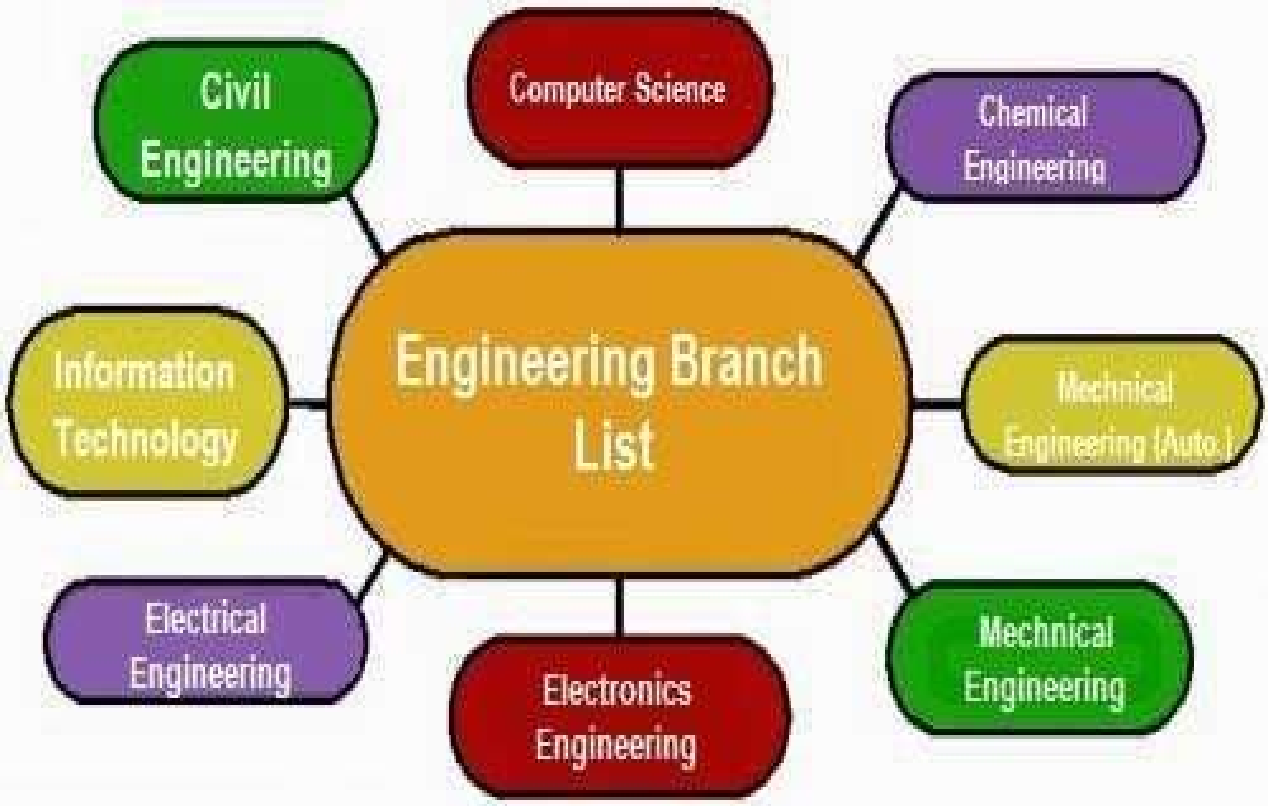
RGMCET Mission

- To build a world class undergraduate program with all required infrastructure that provides strong theoretical knowledge supplemented by the state of art skills.
- To establish postgraduate programs in basic and cuttingedge technologies.
- To create conductive ambiance to induce and nurture research.
- To turn young graduates to success orientedentrepreneurs.
- To develop linkage with industries to have strong industry institute interaction.
- To offer demand driven courses to meet the needs of the industry and society.

- To inculcate human values and ethos into the educationsystem for an all-round development of students.

RGMCET Quality Policy

- To improve the teaching and learning.
- To evaluate the performance of students at regular intervals and take necessary steps for betterment.
- To establish and develop centers of excellence for researchand consultancy.
- To prepare students to face the competition in the market globally and realize the responsibilities as true citizen to serve the nation and uplift the country's pride.



About COMPUTER SCIENCE AND ENGINEERING

CSE Department Vision

- To empower students with cutting edge technologies in computerscience and engineering.
- To train the students as entrepreneurs in computer science and engineering to address the needs of the society.
- To develop smart applications to disseminate information to ruralpeople.

CSE Department Mission

- To become the best computer science and engineering departmentin the region offering undergraduate, post graduate and researchprograms in collaboration with industry.
- To incubate, apply and spread innovative ideas by collaborating with relevant industries and R & D labs through focused researchgroups.
- To provide exposure to the students in the latest tools and technologies to develop smart applications for the society.

Program Specific Outcomes (PSO's)

1. Students will have the ability to understand the principles and working of computer systems to assess the hardware and softwareaspects of computer systems.

2. Students will have the ability to understand the structure and development methodologies of software system, that possess professional skills and knowledge of software design process.
3. Students will have the ability to use knowledge in various domainsto identify research gaps and hence to provide solution to new ideas and innovations.

Program Educational Outcomes (PEO's):

1. To Pursue a successful career in the field of Computer Science& Engineering or a related field utilizing his/her education and contribute to the profession as an excellent employee, or as an entrepreneur.
2. To be aware of the developments in the field of Computer Science & Engineering; continuously enhance their knowledge informally or by pursuing graduate studies.
3. To Engage in research and inquiry leading to new innovations and products.
4. To be able to work effectively in multidisciplinary and multicultural environments.
5. To be responsible members and leaders of their communities, understand the human, social and environmental context of theirprofession and contribute positively to the needs of individuals and society at large.

Program Outcomes (PO's) - Engineering Graduates will be ableto:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specializationto the solution of complex engineering problems.

2. Problem analysis: Identify, formulate, review research literature,and analyze complex engineering problems reaching substantiatedconclusions 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 processesthat meet the specified needs with appropriate consideration forthe 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 theinformation to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriatetechniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activitieswith an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal andcultural issues and the consequent responsibilities relevant to theprofessional 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 ethicsand 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 andapply 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.

Incipience:

A short note for readers... We want to thank all ofthose who supported us in Compass Magazine. We will alwaysbe gratified to the faculty who supported us through this journey.

The essential purpose of Compass Magazine is to inform, engage, inspire and entertain a diverse readership including faculty, staff, students and other friends ofRGMCET.

Our magazine glides you through a series of queriesyou get during the phase of B.Tech and we tried to possiblyfind answers and solutions for your queries and problems.

You will get to know how the scope of Computer Science and Engineering has in present society and what are the important guidelines you need to follow in order to embellish your success in stream of your choice. So we wish you a happy experience and good luck with your future.

A Quick Glimpse:

The Innovators' Quest

In the bustling halls of Oakridge University, where the air was always abuzz with the hum of creativity and the clatter of ideas, there existed a group of engineering students whose passion for innovation knew no bounds. Among them were Alex, the brilliant coder with a knack for turning lines of code into magic; Maya, the meticulous designer who saw the world in circuits and diagrams; and Sam, the daring mechanical engineer who dreamed of building machines that could change the world.

Their journey began one crisp autumn morning when Professor Patel, renowned for his challenging assignments and unwavering belief in his students' potential, presented them with a challenge unlike any other. "Design and build a prototype that solves a real-world problem," he declared, his eyes sparkling with excitement.

The trio exchanged glances, their minds already racing with possibilities. They knew this was their chance to leave a mark, to showcase their skills and ingenuity to the world. With fervor in their hearts and determination in their eyes, Alex, Maya, and Sam embarked on their quest for innovation. They spent countless hours brainstorming ideas, scribbling diagrams on whiteboards, and debating the feasibility of each concept. From renewable energy solutions to smart home devices, their ideas spanned the spectrum of engineering

marvels. Eventually, they settled on a project that resonated deeply with all three of them: a solar-powered water purification system designed to provide clean drinking water to remote communities. Alex wrote intricate algorithms to optimize the system's efficiency, Maya crafted sleek and ergonomic designs that seamlessly integrated form and function, and Sam tinkered tirelessly in the workshop, assembling and fine-tuning each component with precision.

As the weeks turned into months, their prototype began to take shape—a gleaming testament to their collective talent and dedication. When the day of the final presentation arrived, they stood before their classmates and professors, their creation standing proudly beside them. With bated breath, they demonstrated the capabilities of their solar-powered water purification system, showcasing its ability to filter even the most contaminated water sources into crystal-clear purity. The room erupted into applause as Professor Patel, his eyes shining with pride, declared their project a triumph of engineering prowess and humanitarian spirit. But for Alex, Maya, and Sam, the true reward lay not in the accolades they received, but in the knowledge that they had made a difference in the world, however small. As they gazed upon their creation, they knew that their journey as innovators was only just beginning, and that together, they could conquer any challenge that lay ahead.

-M. Sucharitha

III year CSE

Red Tacton: Touching the Future

It is a fascinating technology that enables communication between electronic devices through human touch. It works by utilizing the minute electric field emitted by the human body as a transmission medium for data. Here's a story that explores the potential of RedTacton in a futuristic setting: In the not-so-distant future, where technology seamlessly intertwines with everyday life, a young engineer named Ava found herself at the forefront of a groundbreaking project that would revolutionize the way humans interacted with technology. Tasked with integrating RedTacton technology into everyday devices, Ava embarked on a journey that would push the boundaries of possibility.

Armed with her knowledge and determination, Ava delved into the intricacies of RedTacton, fascinated by its potential to transform the world around her. She envisioned a future where the mere touch of a hand could unlock doors, transfer data, and control electronic devices with unparalleled ease. Her first breakthrough came in the form of a prototype smart home system that responded to gestures and touches, eliminating the need for cumbersome remote controls and voice commands. With RedTacton sensors discreetly embedded in door handles, light switches, and appliances, Ava's home became a living testament to the power of human touch.

But Ava's ambitions didn't stop there. Drawing inspiration from the natural world, she envisioned a network of interconnected devices that communicated effortlessly through the human body's electric field. From wearable technology that monitored vital signs to interactive surfaces that transformed ordinary objects into smart devices, Ava's vision knew no bounds.

As word of Ava's revolutionary ideas spread, she found herself at the center of a

burgeoning movement—a community of innovators and dreamers united by a shared belief in the transformative power of technology. Together, they pushed the boundaries of what was possible, exploring new frontiers and challenging conventional wisdom at every turn. But amidst the excitement and optimism, Ava remained grounded, knowing that true progress required more than just ideas—it required dedication, perseverance, and a willingness to embrace the unknown. And so, armed with nothing but her passion and her vision for a better world, Ava embarked on the next chapter of her journey, ready to touch the future one electrifying moment at a time.

Certainly! RedTacton's potential applications are vast and varied, offering innovative solutions across numerous industries. Here are some futuristic scenarios showcasing the diverse applications of RedTacton:

1. **Healthcare Revolution:** In hospitals of the future, medical professionals utilize RedTacton-enabled devices to monitor patients' vital signs and administer treatment with a simple touch. Bedside monitors, infusion pumps, and diagnostic equipment seamlessly communicate through the human body's electric field, ensuring real-time data transmission and enhancing patient care.

2. **Smart Transportation:** In the age of autonomous vehicles, RedTacton technology enables seamless communication between vehicles and infrastructure. Pedestrian crossings, traffic lights, and road signs transmit critical information directly to vehicles, enhancing safety and efficiency on the roads. Additionally, personalized vehicle settings and entertainment preferences are effortlessly synced to individual passengers' touch, providing a customized travel experience.

3. **Retail Innovation:** Shopping experiences are transformed as RedTacton-enabled

devices revolutionize the retail landscape. Customers browse products, make purchases, and receive personalized recommendations with a simple touch, eliminating the need for traditional checkout counters and cumbersome payment methods. Retailers gain valuable insights into consumer behavior, allowing for targeted marketing campaigns and enhanced customer engagement.

4. **Education Enhancement:** Classrooms of the future incorporate RedTacton technology to facilitate interactive learning experiences. Students interact with digital content, participate in collaborative projects, and receive instant feedback from teachers—all through the power of touch. Educational materials are seamlessly transmitted to students' devices, fostering a dynamic and engaging learning environment.

5. **Industrial Automation:** Manufacturing facilities leverage RedTacton-enabled devices to streamline operations and improve productivity. Workers access equipment controls, monitor production processes, and receive maintenance alerts with a simple touch, reducing downtime and maximizing efficiency on the factory floor. Collaborative robots communicate effortlessly with human operators, enhancing safety and workflow coordination.

6. **Smart Homes and IoT Integration:** RedTacton technology integrates seamlessly into smart home systems, allowing residents to control appliances, lighting, and security devices with a touch of their fingertips. Personalized preferences and environmental settings are synchronized across multiple devices, creating a connected living space tailored to individual needs. Home automation becomes intuitive and accessible to users of all ages and technical abilities.

7. **Security and Authentication:** RedTacton provides a secure and convenient method of authentication in various scenarios, from accessing secure facilities to unlocking electronic devices. Biometric data encoded in the human body's electric field ensures reliable identification and prevents unauthorized access, enhancing security measures in both physical and digital domains.

These futuristic applications of RedTacton demonstrate its potential to revolutionize industries, enhance everyday experiences, and pave the way for a more connected and efficient world.

Written by:

P. Surya Narayana

Crypto Currency

Introduction

In 2008, the pseudonymous “Satoshi Nakamoto” posted a white paper describing an implementation of a digital currency called bitcoin that used blockchain technology. More than ten years later, hundreds of cryptocurrencies and innumerable other applications of blockchain technology are readily available. Cryptocurrencies embrace a peer-to-peer mechanism and effectively eliminate the “middle man”, which could be a financial institution. For example, no bank account or credit card is needed to transact in the world of cryptocurrencies

The technology, however, goes well beyond providing banking services to the unbanked. It holds the potential for cheap, secure, and near-instant transactions, allowing billions of people to join the world of internet commerce, paying, and being paid, for goods or services, outside of the traditional banking and credit card infrastructure.

Cryptocurrencies

A currency without an intrinsic value, such as a cryptocurrency like bitcoin, can only function if sufficient market acceptance is present and if the belief exists that the currency has the value attributed to it.

With a conventional fiat system, money has value because people trust the central bank. For a cryptocurrency, additions to the public ledger are confirmed by a crowd of participants. There is no central bank and participants do not need to trust each other — trust only applies to the algorithm and the network that defines the particular blockchain. A transaction is only valid if the output is equal to the input, that is, the transactor actually has the funds she or he wants to transfer.

We have demonstrated the simplicity of creating a SHA-256 hash to link one block to the next. The danger of using a simple SHA-256 is that a nefarious actor could change a historical block and all subsequent blocks, essentially rewriting history, by ensuring all hashes match.

To make this unlikely, Nakamoto (2008) proposed the idea of requiring "work". Thus, instead of simply providing any SHA-256 output, a special SHA-256 output, which has many leading zeros, is required. In other words, the proposed SHA-256 hash needs to be lower than or equal to the current target in order for the block to be accepted by the network as the next block to be added to the blockchain. This "difficulty" ensures that a new block is added on average every 10 minutes to the bitcoin blockchain (so-called block time). To find this special hash, certain nodes, called miners, will take a candidate group of verified transactions and cycle through numbers, say, 1, 2, 3, . . . [very large number], until the output of the SHA-256 has some leading zeros. This number, which is added to a digest of the transactions, is called a nonce.

Mining

Cryptocurrency mining is therefore analogous to gold mining. Gold mining is expensive. Cryptocurrency miners spend computing power to find the hash as described above. A gold miner only gets rewarded if gold is found. Cryptocurrency miners only get rewarded if they are the first to find the winning hash. Like mining for gold, mining for cryptocurrency is risky. The continuous expenditure of resources such as for hardware and energy for a prolonged period without being rewarded is an inherent risk. **Mining requires a powerful Bitcoin mining rig and a strong and reliable power supply.** You have to invest in a mighty equipment to making mining rewarding. In 2008, a person going by "Satoshi Nakamoto" created Bitcoin. He built in a system of mining that attempts to replicate the experience of the gold standard. The math equations CPU power must solve get harder over time. The early creators had it easy, just like the early miners of gold could pan it out of the river, though later they had to dig into the mountain. Nakamoto put a limit on the number of coins that can be mined (21 million by 2140). (A new coin is currently mined every 20 seconds or so, and a transaction occurs every second).

He made his code completely open-source and available to all so that it could be trusted. And the payment system used the most advanced form of encryption, with public keys visible to all and a scrambling system that makes its connection to the private key impossible to discover.

Trust, anonymity, speed, strict property rights, and the possibility that applications could be built on top of the infrastructure made it perfect. Bitcoin and its underlying technology blockchain are game changing technologies that are reshaping and revolutionizing the world economy.

Bitcoin went live on November 1, 2008. To really appreciate why these matters, consider the times. The entire political and financial establishment was in full-scale panic meltdown. The real estate markets had collapsed, pulling down the balance sheets of the major banks. The investment banks were unloading mortgage-backed securities at an unprecedented pace. Boats delivering goods couldn't leave shore because they could find no backers for their insurance bonds. For a moment, it seemed like the world was ending.

A Bitcoin's price can go up and down, and that's fine, but there is no real speculation going on here that is endogenous to the Bitcoin market itself. The way the program is set up, it is a strict property rights regime with no exceptions.

Bitcoins are traded on exchanges like stocks, bonds, and currencies, and are also used as currency in the exchange of goods and services. The number of vendors and merchants accepting Bitcoins for the exchange of goods and services is expected to grow from the 1000's to the 100,000's now that Japan is accepting Bitcoins as currency. Japan is the first nation to officially accept Bitcoin for payments. More than 300,000 merchants will begin accepting Bitcoin payments in that country alone.

The Indian government has been giving conflicting signals on this matter. Finance Minister Nirmala Sitharaman in March said that there won't be a total ban on the use of cryptocurrencies in the country. But the Centre soon plans to introduce the Cryptocurrency and Regulation of

Official Digital Currency Bill, 2021, which is said to contain provisions completely banning the use of all cryptocurrencies. The future of cryptocurrencies in India, thus, still hangs in the balance.

N. Pravallika
3rd Year CSE

Internet of Things

The Internet of Things (IOT) refers to the connectivity of tens of billions of network-enabled devices having diverse requirements. Beyond the current hype, IOT will undoubtedly affect all sectors of the economy such as automotive, construction, energy or manufacturing, where in communication is a prerequisite to reach the **"fourth industrial revolution."**

What seems to be clear is that **Long Term Evolution (LTE)** technology operative in deployed networks is not capable of enabling this massive communication between machines, so it cannot be considered as IOT's enabling technology. In fact, LTE until Release 12 has not been designed for communication between machines (in terms of scalability, battery life and control signals).

The reaction from standardization bodies has been immediate, producing a number of new standards in the last few years (NB-I0T, LTE-V, EC-GSM etc.). In addition to the network communications related standards, various IOT protocol and platform (3GPP, IEEE, IETF, oneM2M, etc.) standards have been developed to address requirements for device management and secure data exchange between devices and applications.

As the pace of IOT deployments accelerate, IOT standards are undergoing major evolutions, sometimes revolutions. For instance, cellular networks standards under specification are now adding techniques to improve network performance

to address traffic patterns generated by an increasing number of IOT devices. Ongoing discussions around 5G requirements may become game changing for machine-to-machine communications because the standard is being designed, from the ground-up, for massive scale IOT deployments. In parallel, semantic interoperability is now emerging as a major trend that allows data exchange between applications, an increased level of interoperability, analytics and reasoning. With ontologies engineering, researchers will soon overcome the limitations of static data models and bridge the gap between the currently deployed vertical silos. Other areas that will see intense standardization activity are IOT security and low power wide area connectivity.

G.Rohith
3rd year CSE

I WILL MISS YOU

I miss you, **B**rother. Yes, I do.
Never did it occur to me that You would go.
You were too bright a star to get fazed.
Whose trail was worth to be gazed.

My Eyes keep searching for you everywhere
Because in my eyes, you're always there.
Your Smile's so infectious, Your Heart's so pure.
Without you, life is a disease with no cure.

Thou used to dream with Eyes Wide Open.
Faced with an atrocity, Your Courage was often.
You are not the only traveler with Incomplete Journey.
I will not miss you because you have never left me.

-Syed Laheeq
3rd CSE

The Vital Role of Engineers in Society: Shaping the Future Through Innovation and Responsibility

In today's rapidly evolving world, engineers play a crucial role in shaping the fabric of society, driving innovation, and addressing complex challenges that affect communities worldwide. From designing sustainable infrastructure to advancing medical technology, engineers are at the forefront of creating solutions that enhance quality of life, promote economic development, and safeguard the environment.

One of the primary responsibilities of engineers is to apply their technical expertise and problem-solving skills to develop innovative solutions to pressing societal issues. Whether it's designing energy-efficient buildings, developing renewable energy sources, or improving transportation systems, engineers work tirelessly to create sustainable solutions that minimize environmental impact and promote long-term resilience.

Moreover, engineers play a vital role in advancing technological innovation and driving economic growth. Through research and development efforts, engineers pioneer new technologies, processes, and products that fuel progress across various industries, from aerospace and automotive engineering to biotechnology and information technology. By fostering a culture of innovation and entrepreneurship, engineers stimulate economic activity, create job opportunities, and drive competitiveness on a global scale.

In addition to their technical expertise, engineers are also guided by a strong commitment to ethical principles and social responsibility. As stewards of public safety and well-being, engineers adhere to strict codes of conduct and professional standards to ensure the integrity and reliability of their work. They consider the ethical implications of their decisions, prioritize safety and sustainability, and advocate for the greater good of society in their projects and initiatives.

Furthermore, engineers play a pivotal role in promoting diversity, equity, and inclusion within the engineering profession and beyond. By embracing diversity of thought, experience, and background, engineers foster a culture of innovation and creativity that reflects the rich tapestry of humanity. They actively work to dismantle barriers to entry, promote equal opportunities for all aspiring engineers, and create inclusive environments where everyone can thrive and contribute their unique perspectives.

Engineering education is a specialized field of study focused on preparing students with the knowledge, skills, and practical experience needed to design, innovate, and solve complex problems in various engineering disciplines. It encompasses a broad range of subjects, including mathematics, science, technology, and practical applications, tailored to meet the demands of a rapidly evolving technological landscape.

At its core, engineering education aims to cultivate critical thinking, creativity, and analytical abilities in students, empowering them to tackle real-world challenges and contribute to societal advancement. Students typically engage in a rigorous curriculum that combines theoretical coursework with hands-on laboratory

exercises, design projects, and internships or co-op experiences. Engineering education often emphasizes interdisciplinary collaboration and teamwork, reflecting the interconnected nature of modern engineering practice. Students are encouraged to work collaboratively across disciplines, integrating knowledge from diverse fields to develop innovative solutions to complex problems.

Throughout their education, engineering students also develop proficiency in communication, project management, and ethical decision-making, recognizing the importance of effective communication and ethical considerations in engineering practice. Ultimately, engineering education equips students with the technical expertise, problem-solving abilities, and professional competencies needed to thrive in diverse industries, ranging from aerospace and automotive engineering to biotechnology and renewable energy. By fostering a culture of lifelong learning and innovation, engineering education plays a vital role in shaping the future of technology and driving progress towards a sustainable and inclusive society.

Ultimately, engineers are catalysts for positive change, driving progress and innovation in every corner of society. Whether they're designing cutting-edge technology, building critical infrastructure, or advocating for social justice, engineers are dedicated to making a lasting impact and shaping a better future for generations to come. As we navigate the complexities of the 21st century, the role of engineers in society has never been more vital, and their contributions continue to inspire and transform the world we live in.

-Y. Thrilokya
III – CSE

The Parting Song

In the quiet hush of twilight's embrace,
We stand upon the threshold of farewell.
A gentle breeze whispers its soft grace,
As memories weave their bittersweet spell.

Through laughter shared and tears unspoken,
We journeyed hand in hand, heart to heart.
In the tapestry of time, our bonds unbroken,
Yet now, we must each take our own part.

Though distance may stretch its vast expanse,
And time may carve its winding course,
Our souls remain forever intertwined,
Bound by love's enduring force.

So let us bid adieu with grace,
And treasure the moments we hold dear.
For in the symphony of life's embrace,
Our paths may cross again, never fear.

Though farewells may bring a pang of sorrow,
They also herald new beginnings, bright.
So let us embrace the promise of tomorrow,
And bid farewell with hearts alight.

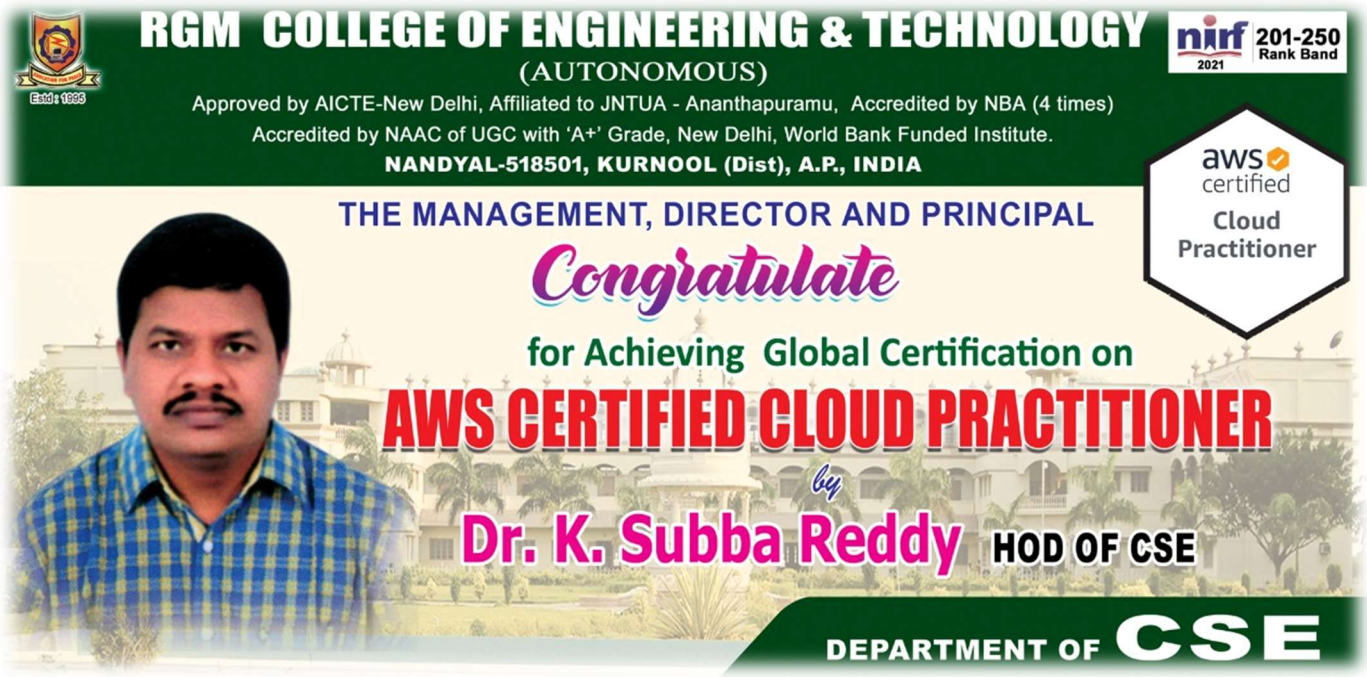
For in the dance of life's eternal song,
We find the strength to carry on.
So let us part with a smile, not long,
And cherish the memories we've drawn.

Farewell, dear friend, until we meet again,
May joy and peace accompany your way.
In the tapestry of life, amidst joy and pain,
Our bond shall endure, come what may.

- I. Siva Meghana

III - CSE

Workshops Organized

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