



SRMS

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CAMPUS-ANVESHAN

**College of
Engineering,
Technology & Research**



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E-NEWSLETTER

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Principal's Desk

SRMS College of Engineering Technology & Research has become an icon of technical education and is recognized as one of the leading Institute. Our students are well known for their discipline; best practices and moral standards which help them show good performance in academics and obtain the best placements. This has been made possible due to the excellent support from the management, the faculty members, the staff, the students and their parents. The infrastructure of our college is in a continuous process of up gradation. Through periodic seminars, symposia, workshops and industry visits as an integral part of the course, the students are equipped with technical knowledge, critical thinking skills and creativity to be competent to face the global challenges in engineering and technology. The college encourages the students to participate in co-curricular and extracurricular activities in a balanced manner to develop their personality. We have an Entrepreneurship Development Cell to inculcate research culture and enterprising skills among the students and faculty. The faculty members are also encouraged to participate in specialised training programmes, conferences, pursue higher studies, etc. to upgrade their skill set in their domain.

I am sure that our students will continue their stellar performance during the course, and also continue their good work in pursuing post graduate, research studies and in their profession work. We have been making greater interaction with the Industry in providing student projects, workshops, seminars, in-plant-training and placement.

Dr. L. S. Maurya

Principal



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HAPPENING AT THE COLLEGE

“Sadak Suraksha” Oath Ceremony

As per order from **Transportation Department, Government of Uttar Pradesh**, An “Oath Ceremony” was organised in **SRMSCET&R** on **December 09th, 2022** where Principal Sir, All HOD’s, Faculty Members, All Staff Members along with all students take Oath to follow all traffic rules for road safety.



Zonal Fest

“**Dr. A.P.J. Abdul Kalam Technical University Literary & Management Zonal Fest**” was organised in **Rajshree Institute of Management & Technology, Bareilly** on **December 9th, 10th, 2022**. Five students of **SRMSCET&R** participated in the event. Various Competitions like **Best Shot on the Spot, Debate and Game of Codes** were organised during event.

“**Paramveer Singh & Ayush Dwivedi**” of Batch-2020 won **Silver Medals** in “**Game of Codes**”.



FRESHER’S PARTY- ‘FUN FOR FUCHCHAS’

A fun-filled **Fresher’s Party** took place for the **B.Tech 2022 Batch** of **Shri Ram Murti Smarak College of Engineering Technology & Research** on **December 10th, 2022** at main auditorium of **CETR** campus. Based on the theme ‘**CARPEDIEM**’, the event proved apt to its theme, and seized the day with full enjoyment and enthusiasm. For beginners, the fresher’s bash was full of excitement, joy, music, enthusiasm, laughter and happiness. The ‘fuchchas’ party with the dress code ‘**dress your best**’, kicked-off with the welcoming of the Dignitaries that was followed by sapling presentation, garlanding, lighting the ceremonial lamp and **Ganesh Vandana**.



HAPPENING AT THE COLLEGE



Then it was time for some cultural extravaganza, wherein several mesmerising singing and dancing performances took place.

The highlights of the party were solo and duet singing, solo and duet dancing, group song, poetry, shaayari, rap singing, beat boxing rap song and stand-up comedy by seniors as well as freshers, which was a visual treat for everyone. Mock Rock—a performance of songs based on funny body movements and facial expressions, remained the eye-catcher of the evening that was performed exceptionally well by hostellers and day-scholars.



HAPPENING AT THE COLLEGE

Later, the much-awaited segment of the Fresher's Party arrived, which was a Fashion Show that remained the cynosure of all eyes, wherein boys and girls walked the ramp with style, in the best of their outfits. The fashion show had three rounds of judgement, and based on talent, creativity and brains, the deserving winners were adjudged with titles and tags for their admirable performances by the panel of judges. Soon after this, fun-filled games were played including balloon bursting, paper fold, musical chairs that kept the students engrossed till the end. The filler performances of picking up random persons from the audience or the crew added cherry to the pie.



Earlier, the fresher's been given a warm welcome and address by **Professor Dr. L S Maurya, Principal at SRMS CETR**. The inauguration ceremony was anchored by Samreen Khanam, Yash Vardhan Gupta, Priyanshi Agarwal and Shivam Pandey. Later, the winners of several cultural performances and games were announced that was a stage of achievements for the contestants, and were gifted with hampers and rewards as follows-

Balloon bursting- Ritam Jauhari and Shrey

Musical chairs- Anamika Chaudhary

Duet dance- Guljahan and Nikita Gangwar

Mr & Miss Fresher- Dev Pathak & Shruti Gupta

Mr & Miss Versatile- Aditya Sharma & Shruti

Mr & Miss Walk- Surya Dixit & Vandita Sharma



HAPPENING AT THE COLLEGE

LIVE GUEST LECTURE ON 'NANO MATERIAL & THEIR APPLICATIONS'

The Department of Basic Sciences at **Shri Ram Murli Smarak College of Engineering, Technology and Research (SRMS CET&R) Bareilly** organized a Webinar—a live guest lecture on the topic 'NANO MATERIAL & THEIR APPLICATIONS' for all the students and faculty members of the college via **Google Meet** on **December 22, 2022**, where **Dr Sarita Khandka, Associate Professor and Head of Physics at Sam Higginbottom from University of Agriculture, Technology and Sciences, Allahabad** was the special guest and keynote speaker.



2023 WELCOME PARTY @ SRMSCET&R:31st DECEMBER 2022

SRMS Family is called for party of **New Year, 2023** that is coming to individuals so they may take pleasure in the approaching year thankfully. Celebration of **GOODBYE 2K22** is celebrated at **SRMSCET&R** to welcome the **NEW YEAR 2023**. The High tea party was thrown by the **Honourable Chairman Sir** on the eve of New Year at **SRMSCET&R** campus.



HAPPENING AT THE COLLEGE



YOU ARE MADE TO FLY HIGH

Long time ago, someone gifted two eaglets (baby eagles) to a King. The king was very pleased with the gift and decided to hire an experienced caretaker for them. After some time, the King saw that both of them were quite big. The King said to the man taking care of the eagles, "I want to see their flight. You signal them to fly in the sky. The man did the same. Both eagles started fluttering as soon as they saw the signal. But where one eagle was touching the heights of the sky, the other flew for some seconds and returned to the branch where it was earlier sitting. Both the eagles were adorable to King, and he desperately wanted to see the second eagle too flying high in the sky. Next day he announced in the whole state that the person who will manage to fly higher this eagle will be rewarded with heavy prizes. After announcement, many intellectual and knowledgeable persons came and tried to apply the knowledge they had to make the eagle fly high. But no one was successful. Even after the passage of couple of weeks, there was no improvement in the eagle. He used to fly a little bit and put it back and sit down. Then one day the king saw that both of them were flying high in the sky. He immediately called the caretaker. The caretaker informed the King, "One man has been successful in making the second eagle fly high."

The King asked the care taker to bring that person in the court. Next day, he was then brought before the king. After offering his reward, the king said, "how did you do this which the great scholars and highly qualified people could not do." The man said "Your highness, I just simply cut down the branch, on which the eagle had an habit of sitting. As there was no branch, he had no option but to fly. And which he did very well."

Lesson from the Story

Just as the eagle didn't realize that he could actually fly so high and always liked to remain on the branch. We also sometimes underestimate ourselves and don't realize our true potential.

Therefore to fly high in life and unlock our true potential, it is necessary that we cut the branch of comfort zone which is becoming a hindrance in success. As great things in life are only achieved out of the comfort zone. At last, I wish you all flying success in life.

Compiled By:
Anantika Mishra
B.Tech (First Year) CS

Reference : www.invajy.com

Towards New Cutting Edge Technologies in Computers

Cutting edge technology is powerfully shaping the world right now. The cutting edge technologies are exponentially revolutionizing the world. This is growing rapidly and here you will know about some new cutting edge technologies:

- **Homomorphic Encryption**

Homomorphic encryption is an emerging technology that opens up possibilities that most people would view as unachievable. It can allow two parties to collaborate and compute something without revealing the secret data. This could open up countless opportunities that today are impossible or restricted.

- **Robotics**

Robotics is going to become main stream. While there has been a lot of hype around robotics for some time, several hardware and software technologies are only now becoming mature enough. Agriculture is one of the first industries that will benefit from it.

- **Quantum Computing**

In the last couple of years, quantum computing has matured from being in the realm of near science fiction to becoming a field of substantial commercial and strategic national investment.

Within five to 10 years, large-scale gate-based quantum computers will make groundbreaking contributions in areas such as materials science, cyber security and medicine.

Compiled By:
Mridul Anand
B.Tech (First Year) CS

Reference : <https://www.forbes.com>

India Now Has 50 Crore Gamers, Becomes World's #1 Gaming Market With Massive 15 Billion Downloads!

In a major milestone for the Indian gaming industry, the country has crossed the half-a-billion mark with 507Mn gamers today. Observing Indian gaming trends Out of this 120Mn, almost one-fourth, are paying users with \$20 revenue per paying user. The data comes from Lumikai, India's only gaming-focused venture capital fund which released the first look of its 'India Gaming Report FY 2022'. The report was compiled using inputs from a demographic sample of 2,240 respondents, third-party data providers, interviews with industry leaders, and Lumikai's proprietary insights. Input sought include gamer and non-gamer motivations, behaviors, preferences, and monetisation propensity.

Most consumers playing mobile games.. In the world!

With 15Bn downloads, India was the largest consumer of mobile games in the world in FY22. This phenomenal growth can be credited to the young population with gaming-ready smartphones and access to cheap data, all contributing to sustained growth in gaming usage. Indian gamers spent an average of 8.5 hours per week on mobile games in FY22.

Fastest growing gaming categories

Mid-core games such as BGMI, Free Fire were the fastest growing gaming category with a growth of 32%, grossing combined revenues of ~\$550 Mn.

Mid-core games refers to those that are more

complex than hyper-casual and casual games. Time spent on such games is approximately double that of top casual games, with Free Fire leading the pack with an average of 109 minutes spent/user/day.

Top games most time spent on

It is followed by BGMI (80 mins), Genshin Impact (80 mins), COD Mobile (67 mins) and Clash of Clans (40 mins).

This trend of spending high amounts of time over the last year suggests a user base primed for more mature game experiences.

Average revenue per paying user grew 11% to \$20/year, with 2 Mn New Paying Users (NPU) added per month.

This means it requires players to make time to play, rather than playing sporadically along with skill and strategy to progress.

Who pays for games?

As mentioned earlier, nearly one-fourth of the 507Mn gamers in India are paying users.

Nearly 48% of gamers spend money on mid-core games.

65% of paying gamers say they have made in-app purchases at least once.

Indian gaming companies are on track to raise \$513Mn for the calendar year '22.

Funding, investment all on the rise

The sector is on the rise in terms of funding which is up 380% from 2019 and up 23% from 2020.

Industry growth is expected to be fuelled by a rapidly increasing gamer base, higher conversion to paid users, and increasing sophistication of the Indian gamer, notes Lumikai.

Compiled By:
Sagar Pandey
B.Tech (Second Year) CS

What is Sentiment analysis?

Sentiment analysis, enables us to determine the emotional value of communications. Sentiment analysis involves determining whether the author or speaker's feelings are positive, neutral, or negative about a given topic. For instance, you would like to gain a deeper insight into customer sentiment, so you begin looking at customer feedback under purchased products or comments under your company's post on any social media platform. You would like to know if the customer is pleased with your services, neutral, or if he/she has any complaints, meaning whether the customer has a neutral, positive or negative sentiment regarding your products, services or actions. Figuring this out is called sentiment analysis.

Sentiment analysis is analytical technique that uses statistics, natural language processing, and machine learning to determine the emotional meaning of communications. Companies use sentiment analysis to evaluate customer messages, call center interactions, online reviews, social media posts, and other content. Sentiment analysis can track changes in attitudes towards companies, products, or services, or individual features of those products or services.

Sentiment analysis, NLP, and ML

NLP libraries capable of performing sentiment analysis include HuggingFace, SpaCy, Flair, and AllenNLP. In addition, some low-code machine language tools also support sentiment analysis, including PyCaret and Fast.AI.

For deep learning, sentiment analysis can be done with transformer models such as BERT, XLNet, and GPT3. GPT3 can even perform sentiment analysis with no training data.

NLP methods for sentiment analysis

In classical methods, we define features and models that can then be identified by the sentiment analysis system.

This can be done by:

- using a dictionary of manually defined keywords,
- creating a 'bag of words',
- using the TF-IDF strategy

The range of models is wide. SVM, Decision Tree, Random Forest or simple Neural Network are all viable options.

Sentiment analysis using transformers

In contrast to classical methods, sentiment analysis with transformers means you don't have to use manually defined features - as with all deep learning models. You just need to tokenize the text data and process with the transformer model. Hugging Face is an easy-to-use python library that provides a lot of pre-trained transformer models and their tokenizers.

If you prefer to create your own model or to customize those provided by Hugging Face, PyTorch and Tensorflow are libraries commonly used for writing neural networks.

Compiled By:

Ms. Neha Sharma
Assistant Professor

Invention of Internet

The invention of the internet is a fascinating and complex story that has played a significant role in shaping the modern world. It is a story that involves the contributions of multiple individuals and organizations, spanning across several decades.

The internet, as we know it today, can trace its origins back to the 1960s, when the US Department of Defense developed a network of computers called ARPANET (Advanced Research Projects Agency Network). This network was designed to allow researchers from different locations to share information and collaborate on projects.

One of the key figures behind the development of ARPANET was Leonard Kleinrock, a computer scientist who developed the mathematical theory of

FACULTY ARENA

Packet switching, which is a key component of modern internet technology. Packet switching involves breaking down data into small packets, which can be transmitted over a network and reassembled at their destination.

Another important figure in the early development of the internet was Robert E. Kahn, who worked on the development of the Transmission Control Protocol (TCP), which is a set of rules that govern the way data is transmitted over the internet. TCP is still used today as a fundamental component of the internet.

In the 1970s, the internet began to expand beyond the confines of the ARPANET, as other organizations and institutions began to connect to the network. This included universities, research centers, and government agencies.

One of the key factors that enabled the growth of the internet was the development of the Domain Name System (DNS), which is a system that translates domain names (such as www.google.com) into numerical IP addresses, which are used to identify specific computers on the internet. The DNS was developed by Paul Mockapetris in the 1980s and is still used today as a fundamental component of the internet.

In the 1980s, the internet began to gain wider public attention, as it became more widely available to the general population. This was due, in part, to the development of personal computers and the increasing affordability of home internet connections.

The widespread adoption of the internet was also facilitated by the development of web browsers, which made it easier for users to access and navigate the internet. One of the first web browsers was Mosaic, which was developed by Marc Andreessen and his team at the National Center for Supercomputing Applications (NCSA) in the early 1990s. Mosaic was followed by other popular browsers, such as Netscape Navigator and Internet Explorer.

Today, the internet is a global network that connects billions of people and devices, and it has become an essential tool for communication, education, commerce, and entertainment.

Compiled By:
Mr. Shiv Poojan Trivedi
System Administrator

5G Network in India

The 5G network is the next generation of wireless technology that promises to revolutionize the way we connect to the internet and interact with each other. It is a faster, more reliable, and more efficient network that has the potential to transform industries and create new opportunities for innovation and growth.

In India, the 5G network is being rolled out by various telecom companies, including Reliance Jio, Bharti Airtel, and Vodafone-Idea. These companies are investing heavily in the development and deployment of 5G infrastructure, and they are working closely with the government and regulatory agencies to ensure the smooth rollout of the network.

The rollout of the 5G network in India is expected to bring a host of benefits to both consumers and businesses. For consumers, the 5G network will offer faster and more reliable internet speeds, which will enable them to access a wide range of online services and applications with ease. This includes streaming video and music, online gaming, and virtual reality experiences.

For businesses, the 5G network will provide a more efficient and cost-effective way to connect to the internet, which will enable them to access new markets and customers, and improve their operations.

Compiled By:
Mr. Umesh Kumar
Lab Instructor

HEALTH TIPS

- *'Organic' or 'Gluten-Free' Doesn't Mean Healthy*
- *Don't Blame New Health Problems on Old Foods*
- *Minimize Distractions*
- *Have a Protein-Rich Breakfast*
- *Be Realistic*

AYURVED

भोजन कैसे करें? महाभारत में लिखा है—“एकवस्त्रो न भुञ्जीत।” केवल एक वस्त्र धारण करके भोजन न करें। भोजन करते समय एक उत्तरीय (दुपट्टा) अवश्य ओढ़ लें। बाहरी वायु शरीर को भोजन के समय प्रभावित न कर सके, इसलिए यह व्यवस्था है। पवित्र भाव से भोजन करें, आज के होटल, रेस्टोरेंट, बफे पद्धति वाले तरीके से नहीं। आयुर्वेद कहता है कि स्नान के बाद ही भोजन करें—स्नान, भगवत्पूजा, फिर भोजन। शरीर अस्वस्थ हो तो गीले कपड़े से शरीर पोंछ दें, वस्त्र बदल दें, भस्म स्नान या मानसिक स्नान कर लें। शिवमंत्र से अग्निहोत्र की भूति शरीर पर लगाने से भस्म स्नान हो जाता है। भोजन के पहले भगवान को भोग लगाकर ही भोजन ग्रहण करें। प्रसाद रूप में जब भोजन किया जाता है तो अन्न में अनुचित आसक्ति न रहेगी। गीता भी ३/१२ में यही कहती है।

Akhand Jyoti, September 2009

MOTIVATIONAL STORY

आज जब हम राजनीति में आदर्शों की तलाश करते हैं तो हमें शून्य ही देखने को मिलता है। देश का नेतृत्व चाहे किसी भी क्षेत्र में हो, वह नैतिक बल उममें नहीं है। ऐसे में महज ही लाल बहादुर शास्त्री की याद आ जाती है। वे न तो बड़े घाप के घेरे थे, न उन्हें किसी के सहयोग ने प्रधानमंत्री पद पर पहुँचाया। वे एक ऐसे राजपुरुष थे, जिनके पास रहने को अपना मकान भी नहीं था। प्रधानमंत्री बनने के बाद किस्तों में उनसे कार खरीदी। सच्चे ब्राह्मणत्व के प्रतीक थे शास्त्री जी। २ अक्टूबर, १९०४ को मुगलसराय के पास एक गाँव में जन्मे लालबहादुर प्रतिकूलताओं में पड़े, बड़े हुए, आजादी के आंदोलन में जुड़े एवं धीरे-धीरे यह लौहपुरुष पहले उत्तर प्रदेश (संयुक्त प्रांत) में मंत्री, फिर केंद्र में रेलमंत्री एवं बाद में १८ माह के लिए प्रधानमंत्री रहे। इसी पद पर रहते हुए ही १९६५ में वे चले गए, किंतु स्थापना कर गए कि आदर्शों की हमेशा पूजा होती है।

Akhand Jyoti, April 2018

EQUATION PUZZLE

The following equation is wrong: $101 - 102 = 1$

Move one numeral to make it correct.

Move one line to make it correct.

Solution:

Numeral: Move the numeral 2 half a line up to achieve $101 - 10^2 = 1$

Line: Move one of the lines that makes the "=" over to the "-" to make:
 $101 = 102 - 1$

DO YOU KNOW

1. UIDAI has launched a new mobile app named which to perform face authentication?

- A. Face Recognition
- B. Aadhaar Face Recognition
- C. Face Identifier
- D. Aadhaar Face Rd

Answer: Option D

2. The DOGE-1 Mission to the Moon will be launched by which company in 2022?

- A. SpaceX
- B. ISRO
- C. NASA
- D. Roscosmos

Answer: Option A

3. Anti COVID Drug 2-DG has been developed by which organization?

- A. DRDO
- B. ISRO
- C. CDIR
- D. DGCI

Answer: Option A

4. Which education board has launched the mobile application "Dost for Life"?

- A. ICSE Board
- B. CBSE Board
- C. Open Board
- D. All of above

Answer: Option B

5. What is the name of the Worlds 1st Artificial Intelligence Ship?

- A. Sunflower 40
- B. Earth 2030
- C. Mayflower 400
- D. Seafarer 66

Answer: Option C

6. Which IIT has transformed an existing Nitrogen Plant into an Oxygen Generator?

- A. IIT Bombay
- B. IIT Kharagpur
- C. IIT Madras
- D. IIT Kanpur

Answer: Option A

7. Microsoft has opened its new IDC facility in which city?

- A. Faridabad
- B. Mumbai
- C. Surat
- D. Noida

Answer: Option D



8. Which telecom company has become the first one in India to demonstrate the operation of the 5G network?

- A. Reliance Jio
- B. Airtel
- C. Vi
- D. BSNL

Answer: Option B

CONGRATULATIONS

SHRI RAM MURTI SMARAK COLLEGE OF ENGG., TECH. & RESEARCH,
BAREILLY
STUDENTS PLACED IN VARIOUS COMPANIES
B.Tech CS BRANCH 2019-2023 BATCH

	Name	Company	Package
	ARPIT SINGH SRINET	ALL E TECHNOLOGIES	5 LPA
	ALSHIFA ADIL	INDIA MART	3 LPA

STUDENT'S ACHIEVEMENT

VERVE CLUB MEMBERS

Following students of B.Tech CSE were selected as the members of the Verve Club for the year 2022-2023:

Tushar Gupta- President
Ayush Mishra- Vice President
Vinita Joshi- Vice President
Mohd. Gulrez Ansari- Joint Secretary
Divya Singh- Joint Secretary
Abhishek Mishra- Cultural Head
Paramveer Singh- Technical Head
Aman Verma- Sports Head
Aman Patel- Chairperson Creation
Utkarsh Gupta- Chairperson Exprimo
Junaid Akhtar- Chairperson Elixer
Naincy Maheshwari- Chairperson Neophytes
Trisha Sharma- Chairperson Raaga
Ayush Dwivedi- Chairperson Esoterics
Charu Jethwani- Chairperson Aaveg
Drishiti Sharma- Chairperson Mileu Club

Faculty of Computer Science & Engineering Department,SRMSCET&R Congratulates them and wishes all the very best for this responsibility.