

# E-NEWS LETTER

## Master of Computer Applications

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### CONTENTS

Latest Update World	01-02
Students Corner	02-02
Department Activity	02-04
College Update	04-05

### LATEST UPDATES WORLD

#### AI can predict early death risk

Algorithm using echocardiogram videos of the heart outperforms other predictors of mortality

Researchers at Geisinger have found that a computer algorithm developed using echocardiogram videos of the heart can predict mortality within a year.



The algorithm -- an example of what is known as machine learning, or artificial intelligence (AI) -- outperformed other clinically used predictors, including pooled cohort equations and the Seattle Heart Failure score.

The results of the study were published in *Nature Biomedical Engineering*.

"We were excited to find that machine learning can leverage unstructured datasets such as medical images and videos to improve on a wide range of clinical prediction models," said Chris Haggerty, Ph.D., co-senior author and assistant professor in the Department of Translational Data Science and Informatics at Geisinger.

Imaging is critical to treatment decisions in most medical specialties and has become one of the most data-rich components of the electronic health record (EHR).

For example, a single ultrasound of the heart yields approximately 3,000 images, and cardiologists have limited time to interpret these images within the context of numerous other diagnostic data. This creates a substantial opportunity to leverage technology, such as machine learning, to manage and analyze this data and ultimately provide intelligent computer assistance to physicians.

For their study, the research team used specialized computational hardware to train the machine learning model on 812,278 echocardiogram videos collected from 34,362 Geisinger patients over the last ten years. The study compared the results of the model to cardiologists' predictions based on multiple surveys.

A subsequent survey showed that when assisted by the model, cardiologists' prediction accuracy improved by 13 percent. Leveraging nearly 50 million images, this study represents one of the largest medical image datasets ever published.

"Our goal is to develop computer algorithms to improve patient care," said Alvaro Ulloa Cerna, Ph.D., author and senior data scientist in the Department of Translational Data Science and Informatics at Geisinger. "In this case, we're excited that our algorithm was able to help cardiologists improve their predictions about patients, since decisions about treatment and interventions are based on these types of clinical predictions."

## STUDENT'S CORNER

### Poet's dream:

*As morning breaks, I'm still asleep  
Cause energy was exhausted  
In a day and night entertainment  
By scrolling-down in social media*

*When I woke up, sun already rose up  
Still I never forget to check my phone  
Before even taking, a ground in my eyes  
Or even stretching my body*

*O World of technology!  
Why always enslaving me?  
I couldn't anymore imagine  
Living in no signal place*

*Offering me always  
Information and communication  
That's holding great impact  
And becomes a part of life*

*Forgetting already  
The very basic kind of life  
On how to live back again  
To basic born lifestyle*

**Amit Kumar**

## DEPARTMENT ACTIVITY

### 1. Zero hour activity on 04 February 2021 (C-Coding Skills Phase-II)

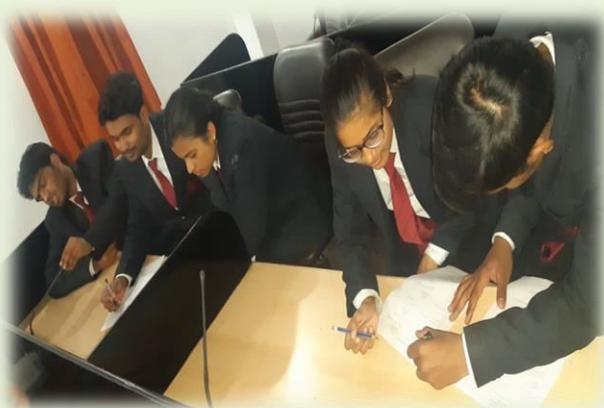
#### Venue: MCA Seminar Hall

On 4-February, 2021 MCA department organized a C-coding skills (phase-II) competition in the club activity hour for the MCA first year students. In which students were divided into three groups (A, B & C).

They were given some code written in C-language because it is a phase-II of coding skills competition, so logic level was raised and they had to find the solution of those queries. The **group-B (Sachin Saxena & Samiksha Singh)**

emerged out as a winner followed by the group A and C.

This event was held under the supervision of Mr. Arvind Kumar Mishra, Mr. Vijay Kumar Dubey and Mr. Vimal Sharma.



## 2. Zero hour activity on 18 February 2021 (Web development training and competition)

### Venue: MCA computer Lab-B

On 18th February, 2021 MCA department organized a Web development training and competition in the club activity hour (zero hour). In which Mr. Arvind Kumar Mishra & Mr. Vijay Kumar Dubey introduced students about web development and trained them how to develop a webpage. Then they organized a competition between students to make their own attractive webpage individually on editor and host the page on **000webhost.com**.

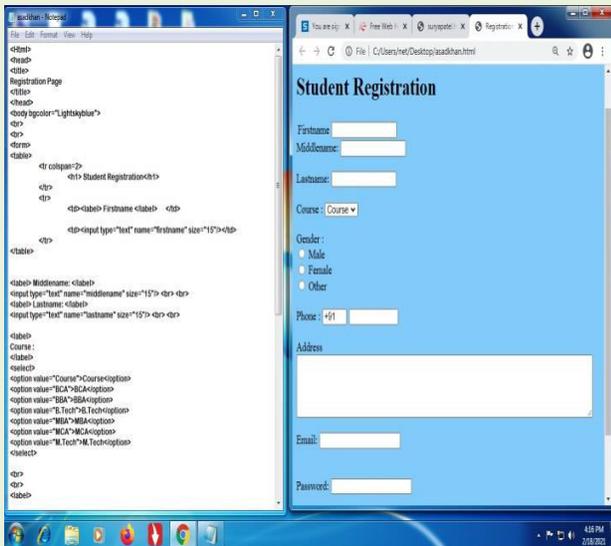
In this competition **Jaswant Singh** got the first position by making the best webpage and second position is occupied by **Ashutosh Maurya**. This event was held under the supervision of Mr. Arvind Kumar Mishra, Mr. Vijay Kumar Dubey and Mr. Vimal Sharma.



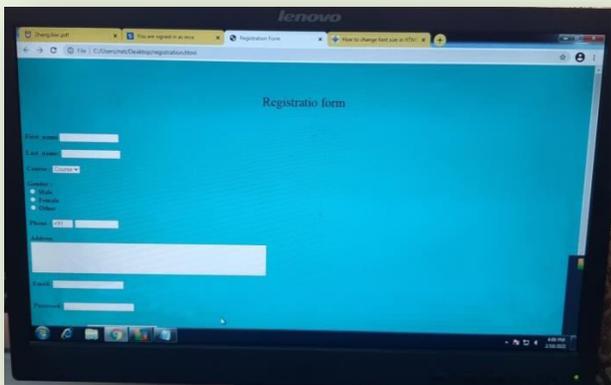


all the dignitaries, parents and students on this pristine occasion.

The Chief Guest for day was **Prof. Akhilesh Pandey, Hon'ble Vice Chancellor**, Vikram University; the Guest of Honor being Shri Sudeep Majumdar and Shri Jai Agarwal. The blessings of Goddess Saraswati were invoked by the lamp lightening ceremony and Saraswati Vandana.



It was followed by a welcome address from Hon'ble Chairman, Shri Dev Murti Sir wherein he threw light on the Covid pandemic and how SRMS paved a way to the glorious future of the graduating students. **Prof. (Dr.) Prabhakar Gupta** presented the annual academic report. Finally, the convocation was declared open by the Hon'ble Chairman Sir. Henceforth, the guests delivered the convocation address and blessings.



The most awaited moment of the ceremony began with the oath of the alumnus. The degrees were distributed to the M.Tech, MCA, M. Pharma, MBA, B.Pharm, B.Tech CET & CETR students. It was wrapped up by the distribution of medals and cash prizes to special awardees. The vote of thanks was given by **Trust Secretary, Shri Aditya Murti Sir** followed by the closing of the ceremony by Chairman Sir. The convocation was brought to an end by the singing of the national anthem and with a vision to keep progressing towards excellence in the near future.

## COLLEGE UPDATE

8th February, 2021 | Centennial Auditorium

SRMS Trust Institutions marked its 20<sup>th</sup> convocation ceremony on 8<sup>th</sup> February, 2021. The event began at 10:50 AM with MOC by **Dr. Ankita Tandon** extending her warm wishes to

Hon. Chairman of SRMS Trust, **Shri Dev Murti Sir** has given Deeksha to all the Degree Recipients and awarded the degrees to all the successful students of various courses of **SRMSCET Bareilly, SRMSCET & CETR Bareilly and SRMSCET Unnao**. All the Graduates walked solemnly towards the stage elegantly. The moment of Convocation was so cherishing that one cannot forget the implication of such a moment.

It was a moment of optimism for all the degree holders. After this, the Medals were conferred

upon to the **Meritorious Students with Cash Prizes** for their **Excellent Academic Performance** during the course. Total 14 Gold Medals, 5 Silver Medals and 5 Bronze Medals were awarded to the meritorious students of various courses. The names of Gold Medalists of different courses were:

1. Er. Anushka Agarwal (EC)
2. Er. Madhu (EC)
3. Er. Ruchi Bohra (EC)
4. Er. Fahad Saud (EN)
5. Er. Utkarsh Gupta (EN)
6. Er. Anil Kumar (CS)
7. Er. Anirudhha Mishra (CS)
8. Er. Rajat Gupta (CS)
9. Er. Aman Kumar Nagpal (IT)
10. Er. Ashutosh Sharma (EE)
11. Er. Akash Gupta (ME)
12. Ms. Aysha Khan (B.Pharm.)
13. Ms. Pooja Agarwal (MCA)
14. Ms. Lavy Khandelwal (MBA)

After the distribution of **Medals and Cash Awards**, the **Chairman of the SRMS Trust Shri Dev Murti Sir** has presented the Momentos to all the esteemed guests of the convocation day. The Vote of thanks was proposed by **Shri Aditya Murti Sir, Secretary, SRMS Trust** and then convocation was declared closed by the Hon. Chairman of SRMS Trust followed by National Anthem.

The Convocation Ceremony ended with a ray of hope and joy that inspired the students to achieve great heights of success and create a new benchmark in their profession.

