PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Kurukshetra University, Kurukshetra)

P.I.E.T.

July- December 2021

DEPARTMENT OF COMPUTER APPLICATIONS-PG

MASTER OF COMPUTER APPLICATIONS

NEWSLETTER

Successful Completion of the "Introduction to React JS in Web Development" Course

The *Introduction to React JS in Web Development* course, a 36-hour intensive program, has officially concluded, and it was a tremendous success! This hands-on course equipped participants with essential skills in web development, combining both theoretical knowledge and practical experience.

Throughout the course, students explored the evolution of web technologies, learning the foundational concepts of HTML, CSS, and JavaScript. They also gained expertise in advanced topics such as asynchronous JavaScript, modern frameworks like React JS, and tools for version control with Git. The course covered essential web development practices, including the use of build tools and strategies for deploying web applications.

By the end of the course, students not only mastered the core technologies required for web development but also applied these skills through project-based learning. They successfully designed and implemented functional web applications, interacted with RESTful APIs, and adhered to best practices for maintaining high-quality code.

This course has provided a strong foundation for students to advance in their web development careers. With new skills and tools in hand, participants are now ready to tackle the challenges of building responsive and scalable web applications.

The success of this course highlights the growing demand for web developers proficient in modern tools like React JS and underlines the importance of practical experience in the development process. We look forward to seeing the future achievements of our graduates in the web development field!

Farewell Ceremony "Sayonara 2k21

On September 11, 2021, The Department hosted a memorable farewell event entitled "Sayonara 2k21" to honor and bid farewell to the graduating batch of 2019-21. Organized by the second-year students, the event was a heartfelt gesture to express gratitude and best wishes to their seniors as they prepared to embark on their future endeavors.

The ceremony was graced by the presence of esteemed guests, including Vice-Chairman Mr. Rakesh Tayal, Member of the Board of Governors Mr. Shubham Tayal, Dean of Student Welfare Dr. BB Sharma, Public Relations Officer Mr. OP Ranolia, Registrar Dr. Manoj Arora, and Head of the Department of MCA Dr. Dinesh Verma. Their presence added a touch of significance to the occasion, emphasizing the department's strong community spirit.

The event began with a warm welcome address, followed by a series of engaging activities that included speeches, performances, and heartfelt tributes. The second-year students prepared a memorable program featuring dance performances, skits, and video montages that highlighted the cherished moments shared between the batches. This celebratory atmosphere allowed students to reminisce about their journey together and the bonds formed during their time in the MCA program.

As part of the farewell, several faculty members shared inspiring words of wisdom, encouraging the graduating students to embrace the challenges ahead with confidence and determination. They emphasized the importance of lifelong learning and adaptability in an ever-evolving technological landscape.

The highlight of the event was the distribution of mementos and certificates to the graduating students, symbolizing the culmination of their hard work and dedication

Data Analysis and Visualization Session with Ms. Neetu Singla

The Department hosted a captivating session on *Data Analysis and Visualization* on 23rd October 2021. The session, led by **Ms. Neetu Singla**, CEO of **Data Spire Technologies**, provided valuable insights into the world of data science. The event, which took place in the Seminar Hall of E-Block, was attended by MCA students eager to expand their knowledge on the growing field of data analysis.

Ms. Singla highlighted the significance of data analysis and its transformative role in turning raw data into actionable insights. The session also focused on data visualization techniques, demonstrating how they can effectively communicate complex information. Students were able to engage with real-world case studies and hands-on demonstrations that further deepened their understanding of data science applications.

The session was highly appreciated by the students, who expressed their gratitude for the practical exposure and in-depth learning they received. With this event, the Department continues to bridge the gap between theoretical concepts and real-world applications, preparing students for the dynamic challenges of the tech industry.

Celebrating Teacher's Day virtually

On September 5, 2021, The Department celebrated Teachers' Day with a heartfelt virtual event, honoring the dedicated educators who shape the future of their students. This special occasion provided an opportunity to recognize the invaluable contributions of teachers in fostering knowledge, creativity, and critical thinking in the rapidly evolving field of computer science.

The event began with an opening address by the program coordinator, who emphasized the importance of teachers in guiding students through their academic journeys and inspiring them to achieve their dreams. Students expressed their gratitude through thoughtful messages, sharing personal stories about how their teachers had positively impacted their lives. These heartfelt tributes highlighted the unique bond between students and educators, illustrating how teachers go beyond imparting knowledge to mentor and support their students.

The event also featured a panel discussion where faculty members shared their insights on the challenges and rewards of teaching in a digital age. They discussed the importance of adapting teaching methods to accommodate remote learning and the role of technology in enhancing the educational experience

Mehndi Competition: Celebrating Karva Chauth with Creativity

On October 23, 2021, The Department organized an inter departmental Mehndi Competition to celebrate Karva Chauth and bring out the creative talents of students. Held in E-401 at 10:00 a.m., the event provided a vibrant platform for students to showcase their artistic skills while honoring this culturally significant festival.

The Mehndi Competition attracted participants from various departments, creating an atmosphere of excitement and camaraderie. As students arrived, the room was filled with colorful decorations and the aromatic scent of henna, setting the stage for a day of creativity and celebration. The event aimed not only to celebrate Karva Chauth but also to encourage students to express themselves through art and tradition.

The competition commenced with a warm welcome from the faculty members, who emphasized the importance of cultural festivities in fostering community spirit and creativity. Participants showcased their talent by applying intricate Mehndi designs on their hands, reflecting their unique styles and cultural influences. The designs ranged from traditional motifs to modern interpretations, showcasing the diverse artistic abilities of the students.
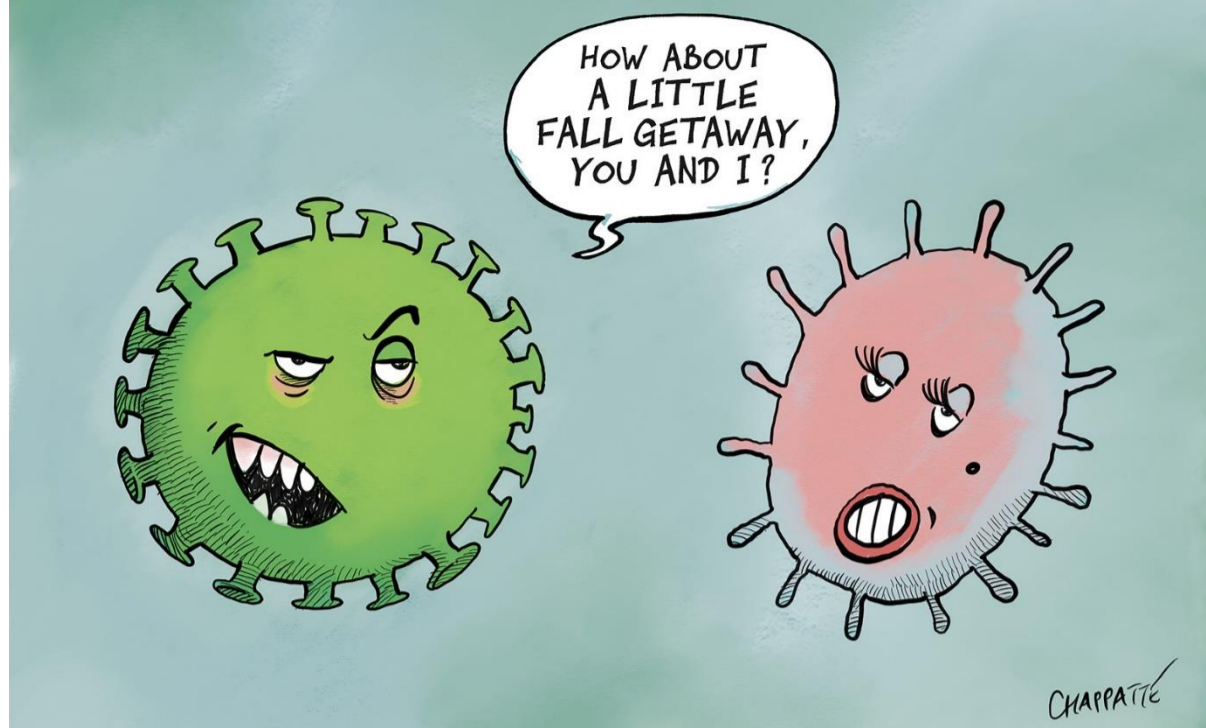
CHILDREN'S DAY: A DAY OF JOY AND INSPIRATION

On November 14, 2021, The Department celebrated Children's Day with great enthusiasm and joy in the college premises. The event aimed to honor the spirit of childhood and promote the importance of education and nurturing young minds.

The event unfolded with a series of engaging activities that included cultural performances, inspiring speeches, and interactive sessions. Students showcased their talents through songs, dances, and skits, celebrating the essence of childhood and the joy of learning. The performances not only entertained the audience but also highlighted the creativity and enthusiasm of the MCA students.

Dignitaries addressed the students, emphasizing the importance of cherishing their childhood and embracing the opportunities that education brings. Their words inspired students to dream big and work diligently towards their goals.

The celebration of Children's Day at the MCA Department was a heartwarming reminder of the joy of being young and the importance of education in shaping the future. The event fostered a sense of unity and pride among students and staff, leaving everyone with cherished memories and a renewed sense of motivation to pursue their dreams

Rangoli Making Competition: Celebrating Diwali with Creativity

On October 29, 2021, The Chill In Club organized an interdepartmental Rangoli Making Competition to celebrate Diwali in its true spirit. Held on the 3rd floor of the E-block, the event aimed to bring out the creative talents of students while fostering a sense of community and cultural appreciation.

As participants arrived, the atmosphere buzzed with excitement and enthusiasm, with colorful materials laid out for the competition. Rangoli, a traditional Indian art form, is created using vibrant powders, flowers, and other decorative elements, symbolizing the welcoming of guests and prosperity during the festival of lights.

The competition kicked off with a warm welcome from the faculty members, who emphasized the significance of Diwali and the importance of celebrating cultural traditions. Students from various departments showcased their artistic skills by creating intricate and beautiful Rangoli designs that reflected the themes of joy, harmony, and festivity.

Participants worked diligently, some incorporating traditional motifs and patterns, while others opted for modern and innovative designs. The air was filled with creativity as students shared ideas, collaborated, and encouraged one another throughout the event.

A panel of judges, composed of faculty members and experienced artists, evaluated the creations based on criteria such as creativity, intricacy, and adherence to the theme. The vibrant colors and intricate patterns brought the spirit of Diwali to life, captivating both the judges and spectators.

As the competition concluded, winners were announced and awarded prizes for their outstanding designs. However, every participant was celebrated for their creativity and effort, highlighting the event's focus on community and cultural expression rather than mere competition.

The interdepartmental Rangoli Making Competition was a resounding success, allowing students to embrace their artistic talents and celebrate Diwali together. This event not only fostered a sense of belonging among participants but also enriched the cultural tapestry of the MCA department, leaving everyone with cherished memories of joy, creativity, and camaraderie.

1. Which country became the first to approve a COVID-19 vaccine for children aged 5 to 11 years old in October 2021?

- a) United States
- b) China
- c) Israel
- d) United Kingdom

2. Which cryptocurrency reached an all-time high in November 2021, briefly crossing $68,000 per coin?

- a) Bitcoin
- b) Ethereum
- c) Dogecoin
- d) Cardano

3. In August 2021, the Taliban took control of which country, marking the end of a 20-year conflict?

- a) Afghanistan
- b) Iraq
- c) Syria
- d) Libya

4. Which tech company unveiled a new "metaverse" vision in October 2021, rebranding its parent company to Meta?

- a) Microsoft
- b) Apple
- c) Facebook
- d) Google

5. Which popular streaming platform released the record-breaking TV series "Squid Game" in September 2021, taking the world by storm?

- a) Hulu
- b) Netflix
- c) Disney+
- d) HBO Max

6. In July 2021, which space agency successfully launched its first crewed mission to space aboard the spacecraft named "Inspiration4"?

- a) NASA
- b) SpaceX
- c) Blue Origin
- d) Virgin Galactic

7. What major environmental event took place in November 2021, bringing global leaders together to discuss climate change?

- a) Earth Day
- b) United Nations Climate Change Conference (COP26)
- c) World Environment Day
- d) Paris Agreement Summit

8. Which film broke the box office record in December 2021, becoming the highest-grossing film of all time, surpassing "Avatar"?

- a) Avengers: Endgame
- b) Spider-Man: No Way Home
- c) The Lion King (2019)
- d) Jurassic World

9. Which athlete made history in July 2021 by winning a record-breaking 20th Grand Slam title at Wimbledon?

- a) Rafael Nadal
- b) Novak Djokovic
- c) Roger Federer
- d) Serena Williams

10. Which major tech company announced plans to build a new semiconductor factory in the United States, aiming to address the global chip shortage?

- a) Intel
- b) Samsung
- c) Nvidia
- d) Apple

Vision of the Department

To be recognized as a centre of excellence for academic repute to create competent, ethical, and responsible Computer Applications professionals with the abilities to contribute globally to the industry, environment and the society at large.

Mission of the Department

M1: Equip students with knowledge and practical skills in computer applications in line with the needs of the industry.

M2: Foster research and innovation capabilities, imbibe ethics and values, and instill leadership in students to support sustainable development.

M3: To develop students with an analytical mindset and the competence to solve real-life problems.

M4: Facilitate linkages with industry and professional bodies, provide experiential learning opportunities, and develop responsible students with abilities to learn and work independently.

Program Educational Objectives (PEOs)

PEO1: Demonstrate analytical abilities, design skills, multidisciplinary competence, critical thinking, and the ability to foster innovations.

PEO2: Demonstrate leadership and supportive roles in the dynamic work environment with ethical behavior and responsibility in their professions.

PEO3: To excel in careers in the diverse domains of computer applications, higher education, and entrepreneurship.

PEO4: Adapt to evolving technologies with the ability to learn independently