

# PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



*Department of Computer Applications -PG*

*Master of Computer Applications*

# **NEWSLETTER**

*January-June 2022*

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## Yaadein-2K22: A Heartfelt Farewell to the Batch of 2022



The Department of computer Applications – PG at PIET bid an emotional farewell to the outgoing MCA Batch of 2022 with a grand celebration titled "Yaadein-2K22". This vibrant event marked a nostalgic yet joyous occasion for the seniors as they prepared to embark on new journeys.

A token of appreciation was presented by the students to the faculty, expressing their gratitude for years of guidance and support.

The evening was filled with exuberant performances by the MCA students, including group and solo dances, as well as melodious songs. A highlight of the celebration was the **Ramp Walk Competition**, judged by **Mr. Rajan Saluja** and **Ms. Reema Lalit**, which showcased the charisma and confidence of the outgoing students

## Orientation Day-2K22: Sankalp – Determined to Compete

On 2nd September 2022, Panipat Institute of Engineering and Technology (PIET) warmly welcomed its new MCA students with the two-day orientation program, "**Sankalp – Determined to Compete.**" Organized as per AICTE guidelines, the event aimed to ease the students' transition into their academic journey, familiarize them with their new environment, and set the stage for their holistic development. This initiative reflects PIET's commitment to nurturing talent and empowering students to excel in their chosen fields.



New Beginnings: MCA Students Explore Opportunities at Sankalp 2K22 Orientation.

The program began with a warm welcome, during which students were introduced to their faculty, peers, and seniors. These interactions laid the foundation for strong academic and social bonds. Sessions focused on providing an in-depth understanding of the MCA programme curriculum, campus activities, and upcoming opportunities. Special emphasis was placed on helping students adapt to their changing responsibilities and schedules, ensuring they feel at home in their new surroundings

To familiarize students with the campus, guided tours and interactive sessions were organized, allowing them to explore facilities such as libraries, laboratories, and recreational areas. These activities not only helped students understand the workings of their new environment but also encouraged independence and confidence. For many, the program marked their first experience of being away from home, and the thoughtfully designed activities provided a safe and supportive environment to ease this transition. Motivational talks by faculty members and alumni added a layer of inspiration, urging students to make the most of their time at PIET. The **Sankalp** program successfully instilled a sense of determination and belonging among the students, setting a positive tone for the academic year ahead. With a focus on academic excellence and personal growth, PIET reaffirmed its mission of shaping future leaders in the field of computer applications.

### Expert Talk on Machine Learning: Regression Problems & Hands-On

The Department successfully organized an enlightening Expert Talk on Machine Learning: Regression Problems & Hands-On Session on January 22, 2022. The session was graced by the presence of **Dr. Hari Singh**, a distinguished academician from **JP University, Solan, Himachal Pradesh**. The event witnessed enthusiastic participation from faculty members, students, and research scholars, who expressed their appreciation for the opportunity to learn from an expert in the field. This initiative reflects the department's commitment to fostering a culture of learning and staying at the forefront of technological advancements

### Expert Talk on Innovations in Image Processing

On **February 22, 2022**, the Department of Computer Applications organized an inspiring expert talk on **Innovations in Image Processing**. The session was conducted by **Dr. Sameer Saran**, Deputy General Manager at **NRSC-ISRO, New Delhi**.

His presentation highlighted innovative techniques and technologies used in satellite image processing, a field crucial for various applications such as environmental monitoring, urban planning, and disaster management.

Participants were captivated by Dr. Saran's insights and his ability to bridge complex scientific concepts with practical implementations. The session concluded with an engaging Q&A, where attendees had the opportunity to delve deeper into specific topics of interest.

This event was yet another milestone in the department's efforts to bring industry and academic experts together to enrich learning experiences and inspire innovation.

## Holi Celebration-2K22: A Festival of Colors and Joy at PIET

The Department of Computer Applications – PG organized a lively celebration of Holi, the festival of colors. Known for spreading joy and togetherness, Holi brought happiness and enthusiasm to the campus as students, faculty, and dignitaries came together to mark the occasion.

The event was graced by the presence of Sh. Hari Om Tayal (Chairman, PIET), Sh. Suresh Tayal (Member Secretary, PIET), Prof. (Dr.) Shakti Kumar (Director, PIET), Dr. Dinesh Verma (HoD, DCA-PG), and other department heads, all of whom participated with great excitement. Post lectures, students celebrated by applying colors on each other's faces and playing with colored water, creating a vibrant and cheerful atmosphere. Faculty members and dignitaries also joined in, sharing smiles and festive spirit.

Sh. Hari Om Tayal shared words of wisdom on the significance of Holi, while Sh. Suresh Tayal spoke about the festival's importance as a symbol of harmony and positivity. The event concluded with a heartfelt vote of thanks by Dr. Dinesh Verma, expressing gratitude to all participants for making the day memorable.

Holi Celebration-2K22, organized by the MCA department,



### Vision, Mission and PEOs Statements



#### 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.

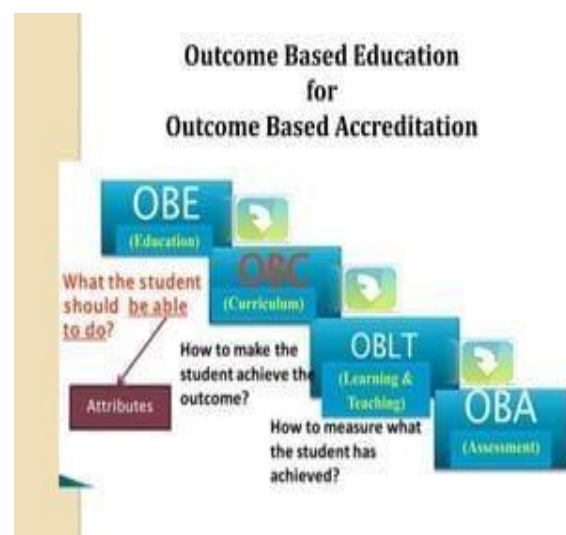
**PEO4:** Adapt to evolving technologies with the ability to learn independently

### FDP on Manuscript Writing



The Department of Computer Applications – PG organized a two-day faculty development program titled "How to Write a Manuscript Using Research Tools" on April 22-23, 2022. The event aimed to strengthen faculty research skills by covering topics such as research ethics, reference management, manuscript writing using LaTeX, and understanding publication metrics like impact factors. The program provided valuable insights into effective research paper writing and publication processes.

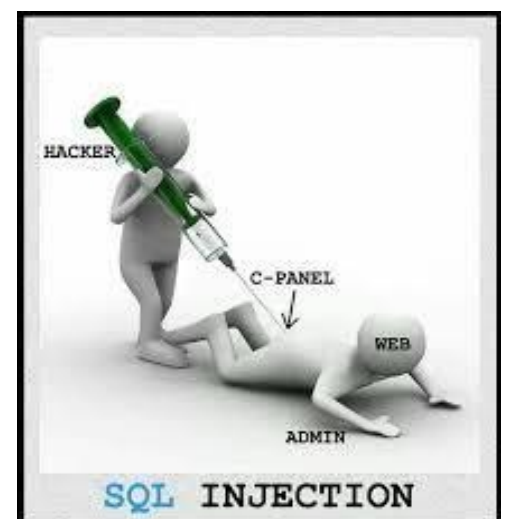
### FDP on Outcome-Based Education and Accreditation



A five-day Faculty Development Program (FDP) on "Outcome-Based Education and Accreditation" was conducted from June 13 to June 17, 2022, focusing on key aspects of educational quality enhancement. The program covered crucial topics including the Self-Assessment Report (SAR), National Education Policy (NEP) 2020, and Course Outcomes - Program Outcomes (CO-PO) attainment.

Participants gained insights into SAR preparation, NEP 2020 implementation strategies, and methods for mapping and evaluating CO-PO alignment. The FDP emphasized continuous improvement through systematic assessment and reinforced best practices in educational accreditation.

### SQL Injection: The Invisible Weapon Behind Web Vulnerabilities.



This image depicts a humorous and illustrative representation of an SQL Injection, a type of cyber-attack. It uses a metaphor of a hacker injecting a system (symbolized as a syringe) into a vulnerable part of a website's database system (C-Panel/Admin), highlighting the consequences of weak web security.

**1** The body of the Egyptian Sphinx was based on which animal?  
.....

**2** What is stored in a camel's hump?  
.....

**3** The winter sleep of bears and other animals in cold climates is known as hibernation. What do we call the summer sleep of creatures in excessively warm or dry climates?  
.....

**4** What type of animal is a saki?  
.....



## Animals

**5** What M word is the technical name for a kangaroo's pouch?  
.....

**6** How many toes does a cat have on each back paw?  
.....

**7** How many legs does a lobster have?  
.....

**8** Falabella is an Argentine breed, and one of the smallest breeds of which animal?  
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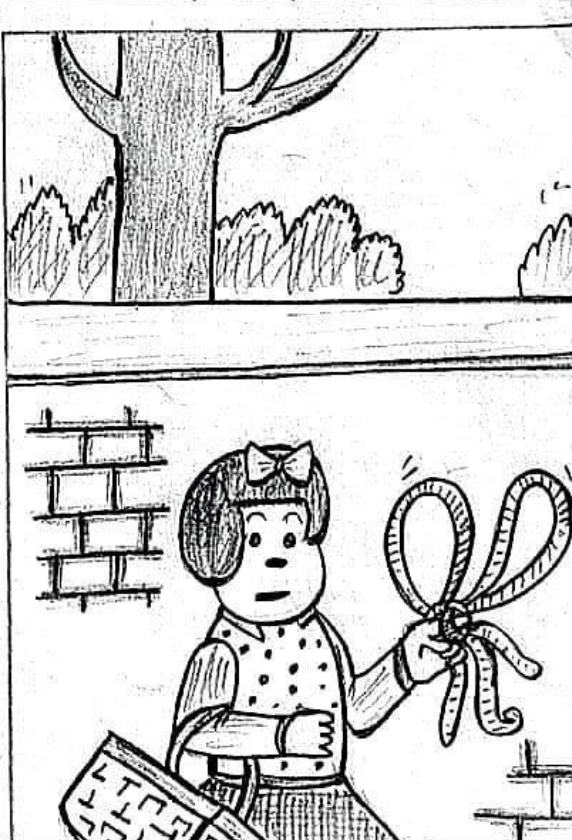
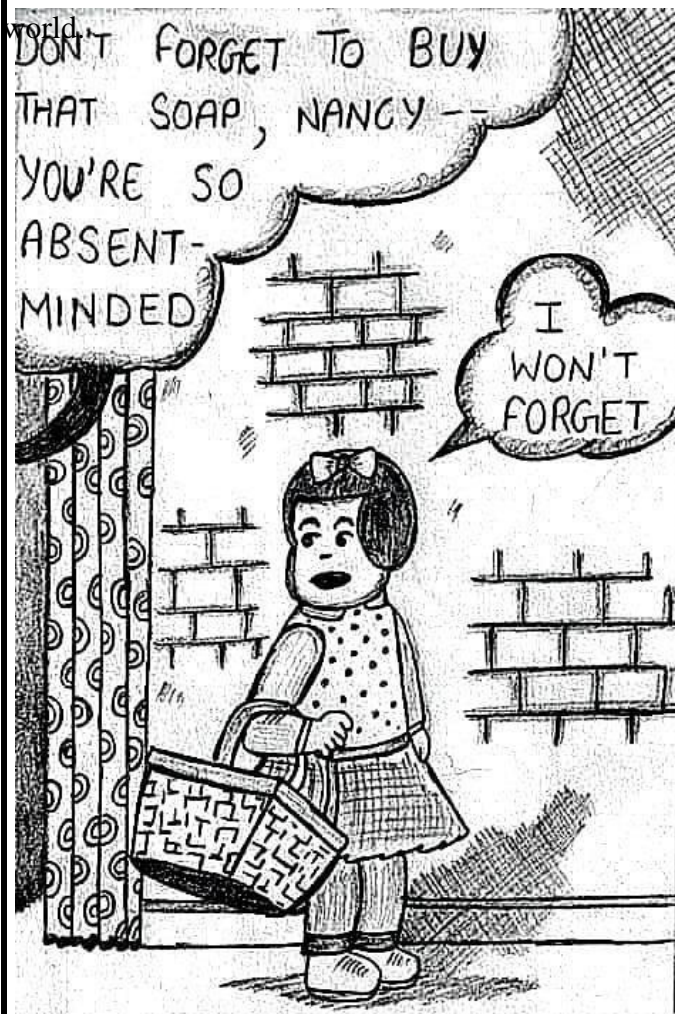
**9** What bird is known for laying its eggs in other birds' nests?  
.....

each front paw and four toes on each back paw.  
7. 10 (8 walking legs and 2 larger claw legs)  
8. It is among the smallest of horse breeds, with a height in the range 63–86 cm (25–34 in).  
9. Cuckoos, and other birds are tricked into caring for the cuckoo's young.

1. A lion's body, with a human head.  
2. A camel's hump stores fat, not water as is popularly believed. The camel uses it as nourishment when food is scarce.  
3. Aestivation  
4. Monkey  
5. A marsupium, which is the Latin word for pouch.  
6. Four. Cats have five toes on

ANSWERS

## Through the Lens of Laughter



## Workshop on Python for Data Science

The Department of Computer Applications successfully conducted an intensive workshop on **Python for Data Science** from **January 22, 2022, to March 12, 2022**. The workshop was facilitated by **Dr. Monika** and **Ms. Divya Singla**, both renowned for their expertise in data science and Python programming.

This comprehensive workshop spanned multiple sessions, covering foundational concepts and advanced techniques in Python programming tailored for data analysis and machine learning. Topics included data preprocessing, exploratory data analysis, visualization, and model building, providing participants with hands-on experience and practical skills.

Faculty members, students, and research scholars actively participated in the workshop, gaining valuable insights and honing their skills in data science. The interactive approach adopted by the facilitators ensured a highly engaging and enriching learning experience.

This workshop underscores the department's commitment to equipping participants with cutting-edge skills and preparing them for the demands of the data-driven

