

DEPARTMENT OF INFORMATION TECHNOLOGY

# INFOBUZZ



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**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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

# IT DEPARTMENT

## VISION

To create globally competent professionals by imparting quality technical education, research aptitude and analytical skills to meet challenges in IT industry, thus contribute to the welfare of society.

## MISSION

M1: To nurture students with knowledge and programming skills of different IT domains necessary for development and testing of quality software solutions.

M2: To provide an integrated, responsive and comprehensive academic ecosystem with enhanced teaching and learning to promote intellect and excellence in research.

M3: To mentor students with applied problem solving and critical thinking leading to innovative and sustainable solutions to societal problems.

M4: To collaborate and exchange expertise with industry, research organizations and academic institutions.

## PROGRAM EDUCATIONAL OBJECTIVES

- The graduates will have core competencies in IT fundamentals necessary to solve hardware, software and integrated engineering problems relevant to IT industries.
- The graduates will be proficiently engaged in development of IT products and services to cater to the industry needs or perform as innovators or entrepreneurs.

- The graduates will successfully pursue higher education or career paths in research.
- The graduates will professionally function with social awareness, responsibility and ethical norms.

## **PROGRAM SPECIFIC OBJECTIVES**

PSO1

Design, develop and test software applications and project management solutions of real world problems.

PSO2

Be competent in emerging areas of Information Technology

# **EDITORIAL TEAM**

## **FACULTY EDITOR**



**MS. MITU SEHGAL  
M.TECH, B.TECH  
(ASSISTANT PROFESSOR)**

## **STUDENT EDITORS**

**AAKASH**



**NISHANT**

# Project Expo Competition

The Department of Information Technology organized Project Expo on 06-12- 2022 for the projects designed by students on innovative ideas. The major objective of organizing this exhibition was to provide the platform and unleash the potential of the students by showcasing their innovative projects focusing Industry Defined Problems or User Defined Problems and provide an opportunity for the students to demonstrate their learning experience. The outcome of the PROJECT EXPO was that students were able to show their project at higher level and the process boosted their confidence.



# Mehndi competition

Mehndi competition was organized on 11<sup>th</sup> October 2022 by Department of information technology on occasion of karwa chauth. More than 50 girls from different departments were participated in this event and show their creativity in the form of Mehndi Art. Winners were awarded by trophy and certificates.

## Results for Mehndi Competition

**1- Kanika asija , Nirmal**

**2 - Parkhi**

**3 - Lipakshi**



# IPR Awareness and Patent Filing Process

Department of Information Technology collaboration with ACM Chapter, IEEE Student Chapter and AICTE IDEALAB, PIET, Samalkha, Haryana organized 1 Dayworkshop on IPR Awareness and Patent Filing Process “held on 30 Nov,2022 at Block G-Ground floor, ETLab. the insightful session was delivered by Dr. Pooja Kumar on “IPR Awareness and Patent Filing Process” which enlightened participants at great extend and willdefinitely help in transforming their ideas into patents and business ideas as well help in the higher studies of faculty.



# Alumn Talk on the topic “Exploring the World of Backend Technologies”

The Department of Information technology has organized an Alumn Talk on the topic “Exploring the World of Backend Technologies: Insights from our Alumni” by our Alumni Mr Puneet Sharma & Mr Chanky Ahuja on 14<sup>th</sup> October’22. The lecture covered essential steps to practice when creating final year projects. These steps include breaking down projects into user stories, clarifying requirements through product grooming, focusing on design and the right technology stack, considering factors like DB and communication (Sync or Async), ensuring resilience and fault tolerance, and having a proper QA plan.

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**PUNEET SHARMA**  
[Dev Lead, Finacel, Singapore]  
Batch: 2006 to 2010

**CHANKI AHUJA**  
[Software Development Engineer, Hired Vayron, Bangalore]  
Batch: 2006 to 2010

"Exploring the World of Backend Technologies: Insights from Our Alumni"

14 October, 22 **Mode-Online**

**SEMINAR HALL,**  
Second Floor E block

Organized by  
TECHNO GEARHEAD Club  
DEPARTMENT OF INFORMATION TECHNOLOGY  
Faculty Coordinator- Ms. Karuna Rani  
Mr. Sandeep Goel (IT)  
Student Coordinator- Mr. Abhishek Mishra  
Mr. Aayush

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# Extempore competition

Department of Information technology organized an extempore competition on 21<sup>st</sup> November, 2022. The objective of this competition is to make the students confident and better orators so that they can fearlessly express their views on any topic.

Few Topics for Extempore

Topic 1: Free Wi-Fi Spots

Topic 2: Digital Footprint

Topic 3: Cobots

Topic 4: Cryptocurrency

Topic 5: Future of IT

Topic 6: Blockchain

Topic 7: Electric Vehicles in India

Topic 8: Big Data

Topic 9: Cyber Attacks

Topic 10: Augmented/Virtual Reality

Topic 11: Industrial Revolution 4.0

Topic 12: Drone Technology

Topic 13: B Learning

Topic 14: Android vs IOS

Topic 15: 5G

Topic 16: Digital Privacy



# International Conference



The Department of Information Technology in collaboration with IFERP has organized an International Conference on the theme “Technology Developments & Modern Trends in Applied Science and Advanced Engineering” on Dec 29-30, 2022. The major objective of this Conference was to provide the platform and unleash the potential of students explore the new horizons of innovations from distinguished researchers, scientists and eminent authors in academia and industry working for the advancements in Applied Sciences Department, Engineering and Technology from all over the world. All the accepted papers have been published in Scopus indexed AIP series and had a chance to get published in SCIE/Scopus/Web of Science journal. Conference was convened by Dr. Mukesh Chawla - (HOD ,IT) and Co-conveners were Ms. Mitu Sehgal (Assistant professor, IT) and Ms. Karuna (Assistant professor, IT).

## Student achievement

1. Yashika participated in SIH-22 Competition at AICTE, BITS, Ranchi and secured First position
2. Mayank participated in Rab Battle competition held at IGDTUW, Delhi and secured First Position
3. Himanshu, Rohit, Navdeep, Sanket presented a paper “Analysis of the Cryptocurrency adoption: Current stage and Opportunities” in International conference on Futuristic computational Techniques : Approaches, Implementations and applications (ICFCT-22)
4. Ishaan and Ranjeet presented a paper “Design and Development of P2P Video calling Application:STRANGERS” in International conference on Futuristic computational Techniques : Approaches, Implementations and applications (ICFCT-22)
5. Muntazir Mehdi , Aditya raj, Ashish Kumar Sewda presented a paper “Water Conservation System for Infrastructure of an Organisation using IOT” in International conference on Futuristic computational Techniques : Approaches, Implementations and applications (ICFCT-22)
6. Ritika, Harpreet and Mayank presented a paper “Design and Development of user-friendly e-commerce website: STREET-GENZ” in International conference on Futuristic computational Techniques : Approaches, Implementations and applications (ICFCT-22)

# Faculty achievements

1. Karuna Rani, Bhawna Kukreja, Neha Bhatia, Mitu Sehgal, Ashima Arya filed a patent on “Remote Control Based Secured Smart Home Using IOT” in July 2022
2. Vaishali Mehta published a patent on “Dyanamic Defence Mechanism Against Pinned Attacks Of Master Nodes In Wireless Sensor Networks” in July, 2022
3. Vaishali Mehta published a book on “Handbook of Research on Machine Learning Foundations and Application” in August, 2022
4. Vaishali Mehta Book chapter’s “Fake News Predictor Model- Based on Machine Learning and Natural Language Processing “ got published in Taylor and Francis in August, 2022
5. Vaishali Mehta Book chapter’s “Systematic Review of Deep Learning Techniques for Semantic Image Segmentation: Methods, Future Directions, and Challenges “ got published in Taylor and Francis in August, 2022
6. Vaishali Mehta published a book on “Real-Life Applications of the Internet of Things” in August, 2022
7. Harminder Kaur published a patent on “An Effective Healthcare Monitoring System Based on IOT and Machine Learning to Track an Old Age Patients Vitals” in September’ 2022
8. Vaishali Mehta published a book on “Challenges and Opportunities for Deep Learning Applications in Industry 4.0 K” in August, 2022 in collaboration with Bentham Science Publishers
9. Vaishali Mehta, Mukesh Chawla, Rattan Deep Aneja published a book chapter “Uses and Challenges of Deep Learning Models for Covid-19 Diagnosis and Prediction” in October, 2022.
10. Ashima Arya, Mitu Sehgal, Neha Bhatia published a book chapter “Heart Diseases prediction utilizing a machine learning system , as well as future prediction using virtual reality” in October.

11. Harminder Kaur published a patent on “A System for Secure Homeautomation through Speech via. Google Assistant Based on IOT , ML & CLOUD TECHNOLOGY” in October’2022
12. Harminder Kaur published a patent on “An AI Based Sytem and Process For Providing Rapid/ Precise Cardiac Care” in October’2022
13. Harminder Kaur publised a paper “An Educator Evaluation System Facilitated by Data Science” in International conference on Communication, Security and Artificial Intelligence (ICCSAI-2023)
14. Mitu sehgal completed one week FDP on “Artificial Intelligence in Industrial managemnet” from 21-26 Dec,2022
15. Mitu Sehgal completed one week FDP on “Recent Trends in Artificial Intelligence and Cyber Security” from 1-5 Nov,2022
16. Neha Bhatia completed one week FDP on “Data Science using Python” from 10-14 October,2022 sponsored by NITTTR, Chandigarh
17. Mitu Sehgal, Karuna Rani, Nitisha Aggarwal , Neha Bhatia completed one week FDP on “Matlab for Science & Engineering Teachers” from 1-5 aug,2022sponsored by NITTTR, Chandigarh