



**CAMPUS**

# Chronicles

**CSE DEPARTMENT NEWSLETTER**



# About Us



IMS Engineering College, Ghaziabad is one of the top-notch engineering colleges in North India which has created a niche for itself since its establishment in 2002. IMSEC has been ranked 5th in North Region as per Times of India Institute Ranking Survey 2022 and as per IIRF Ranking IMSEC has been ranked 5th in State Rank. IMSEC-GZB is located in the heart of industrial city, known for its quality research, centers of excellence, innovative teaching pedagogy, placements and other creative efforts.

Department of Computer Science and Engineering was established in the year 2002 with current intake of 240 students. The Department of Computer Science and Engineering has highly experienced and dedicated faculty team, state-of-art laboratories, computer centers, learning resource centers and pedagogic skills/pedagogical techniques provide the students highly exciting and gainful opportunities to acquire knowledge and technical expertise necessary for grooming and orienting their creative young minds.

Department of Computer Science and Engineering is consistent in its endeavors to facilitate students with all latest technical knowhow and current innovations as per the need of the industry so that they can take leverage of the same in respect to architect their career in much enduring way and come out with flying colours in the spectrum of life. In recent years, we have been successful to place majority of students in prominent companies like Microsoft, TCS, Wipro, Cognizant, NTT Data, Infosys, IBM, Global Logic, Nagarro, QA InfoTech, Torrent Power, Nucleus Software, NIIT Technologies, HCL Technologies, VVDN Tech. and many more esteemed brands.

As per the Placement Report of 2018-22 batch, the highest LPA was of 50 lacs offered by Microsoft and grabbed by 3 students. 6.5 LPA was our average package. Two of our CSE Students named Suraj Jaiswal and Shivam Singh (2019-20 batch) have their own start-up by the name "SSJ IT Solutions Private Limited". Divyansh Dixit in final year is the Founder CEO of Ovelpo Technologies Pvt. Ltd. We have been adding laurels since the inception of this institution and are committed to have academic achievements like this in future too.



# Director's Message



WARM GREETINGS!!

I am delighted to share that the Department of Computer Science and Engineering is coming up with the bi-annual Newsletter, Campus Chronicles, to showcase important Departmental events, achievements, activities, research and patent publications, Industrial/academical Interactions, Workshops, etc. of the CSE department. Artistic sketches, Articles, Creative Corner and Poetry by the CSE family have been included to highlight the diverse talent present within the department.

A section on Alumni with their messages shows our desire to keep our association with ex-students of the department alive and their industry-related advice shall help in shaping the mind of budding engineers of the department. Highlights of the Placement of students in an organization of repute have been included and are indicative of the goodwill of the Institute and the Department among prospective employers.

I congratulate the editorial team for their sincere effort to make this newsletter an informative document on our CSE family's activities and varied talent. The editorial team has initiated something that will continue to help and guide present and upcoming students of the Department. Personally, I feel that students of IMSEC are equipped to set high standards and create an environment so that they excel in their areas of interest and accordingly guide more and more students of our institution, for the future.

We are committed to creating an ambiance for nurturing innovation, creativity, and excellence in our students. We aim to prepare young engineers to face the challenges of stiff competition by imparting high-quality technical education backed by appropriate training and wide exposure to state-of-art practices. Our educational programs stress all-around personality development and imbibing human values and professional ethics, which help our students become more humane and lead meaningful lives.

Best Wishes for the success and bright future of "Campus Chronicles".

**Dr. Vikram Bali**  
Director



# HoD's Message

Warm greetings!!

I am happy to release the August – December 2022 issue of CSE Department Newsletter – “Campus Chronicles”.

It gives me great pleasure to congratulate Students, Faculty and Staff of the CSE department for the publication of the newsletter, enumerating the various departmental activities and achievements of our students and faculty during this semester.



The Department endeavours to produce confident professionals capable of excelling in a real-time working environment. The Department offers a good academic environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and inculcate the spirit of teamwork in them. This newsletter will motivate the faculty and students to come up with creative and innovative ideas that will help in their overall development.

I take this opportunity to congratulate our Editorial Board for their great effort to make this newsletter a reality.

I wish the BEST OF LUCK to all the team members for the publication of Campus Chronicles.

Best Wishes ,

**Dr. Sonali Mathur**  
**Professor and HoD**  
**Department of CSE**



# Editorial Board

Greetings from the Editorial Board!!!

I am pleased that the August-December 2022 issue of the Departmental newsletter is now ready to roll out with good coverage of the news that pertains to the CSE department. There are several activities taking place on a regular basis that we have endeavored in our newsletter to provide in a capsule, staff and student achievements, industrial visits, FDPs and workshops, placement details, expert and Alumni talks, and events that are regular fixtures in our department. We also highlight the diverse talents present in our students and faculties and hope to motivate them positively through our newsletter. I would like to thank The Management of IMSEC, The Director, Dr. Vikram Bali, HOD, Dr. Sonali Mathur, and the student editors for their great effort to make this newsletter a significant publication. We welcome suggestions to improve our content.



Sincerely ,

**Dr. Subhajit Ghosh**  
**Professor**  
**Department of CSE**



**SHUBHI KULSHRESTHA**  
3RD YEAR



**AADHYA GUPTA**  
3RD YEAR



**ASTHA SINGH**  
3RD YEAR



**DEEPENDRA SINGH**  
3RD YEAR



**SUMIT PANWAR**  
3RD YEAR



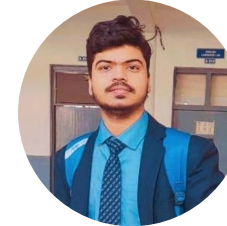
**TANISHA SHARMA**  
2ND YEAR



**YASHIKA PANDEY**  
2ND YEAR



**HARSH**  
2ND YEAR



**AMAN PANDEY**  
2ND YEAR

## Editorial Team



**TEAM HEAD**  
**AYUSHI SAHANI**  
3RD YEAR



# Department VM PEO & PSO

## Vision

To provide globally competent professionals in the field of Computer Science & Engineering, embedded with sound technical knowledge, aptitude for research and innovation with ethical values to cater to the industrial & societal needs.

## Mission

- **M1:** To provide quality undergraduate education in both the theoretical & applied foundations of Computer Science Engineering.
- **M2:** Conduct research to advance the state of the art in Computer Science & Engineering and integrate the research results as innovations.
- **M3:** To inculcate team building skills and promote life-long learning with a high societal and ethical values.

## Program Educational Objectives (PEO)

Graduate Will:

- **PEO1:** Possess knowledge to enable continued professional development.
- **PEO2:** Engage in life-long learning to foster personal & organization growth.
- **PEO3:** Work productively as successful professionals in diverse career paths.
- **PEO4:** Effectively communicate ideas to promote collaboration in accordance with societal standards & ethical practices.

## Program Specific Outcomes (PSO)

- **PSO1:** To apply standard software engineering practices & strategies in real-time software project development
- **PSO2:** To apply latest programming languages in creating innovative career opportunities.



# Department Activities

## Training by Netcamp for Students

(5 August 22)

Students successfully completed training by Netcamp on “Network Management with Web Development & Android with Core Java” On 5th August 22.

## Mentoring Activity for CSE 2nd-year Students

(10 October 2022)

A mentoring activity of “ORIENTATION PROGRAM” for 2nd-year students was conducted on Monday, 10th Oct 2022 at 3:40 PM. In this orientation program, mentees interacted with their respective mentors, and the mentees of each mentor were made aware of this activity. Mentors have taken overall responsibility of mentees. Each student filled up academic records and personal information in mentor cards given to them.

## Mentoring Activity for CSE 3rd-year Students

(13 October 2022)

A mentoring debate activity for 3rd-year students was conducted on Friday, 13th Oct 2022 at 3:40 PM. The topics covered were from the latest technology. Students had participated in this activity and gave the relevant information and a healthy debate took place.

## Training program on “Soft skills and Quantitative Aptitude” in association with TCP Global

(02 November 2022 Onwards)

IMS Engineering College Ghaziabad has started a training program on 'Soft Skills & Quantitative Aptitude' in association with TCP GLOBAL for B.Tech 2nd, 3rd and 4th year and also for MBA 2nd year students.

The Soft Skills training team is inspired by the vision of IMSEC “TO CREATE COMPETENT PROFESSIONALS FOR INDUSTRY AND SOCIETY”.

## Club Orientation for 1st Year Students

(22th November 2022 - 23 November 2022)

Orientation of all the clubs was conducted on 22nd Nov 2022 for 1st year students which included FRESHLANCE CLUB, APTI SMART CLUB, RUNTIME HACKERS CLUB, and the GAMING CLUB of CSE Department. The aim of this orientation was to make students aware of the clubs working in the college and give them a little exposure of these clubs which would make it easier for them to choose their interest.

## Mentoring activity of “Career Goals and Career Paths”

(23 November 2022)

In this program, mentees interacted with their respective mentors, and the mentees were made aware of this activity by their respective mentors. Mentors conducted group discussions and presentations.

## Mentoring Activity for CSE 2nd-Year Students

(08 December 2022)

A mentoring activity of “YOUR STRENGTHS AND WEAKNESSES” where mentees interacted with respective mentors, and the mentees of each mentor were made aware of this activity.

## Honeywell Team visit to Centre of Excellence at IMSEC

(23 December 2022)

The department feels delighted to share that TID Department has successfully completed a Training Program 'Microsoft Power BI' in association with ICT Academy Sponsored by Honeywell for B. Tech. 4th Year Students of CSE/CS/IT on 08/12/2022. Honeywell interacted with Institute Dignitaries & beneficiary Students & discussed the impact of the project. It was an insightful and impactful visit.

## Other Activities

- All Technical clubs of CSE department were made functional.
- Toppers of the CTs, Sessional Examinations were congratulated at the departmental level and were cheered for in their respective classes.



# Industrial Interactions

## Industrial visit to Training Basket Pvt. Ltd., Noida (18/11/2022)

The batch of 3rd Semester students of the Department of Computer Science & Engineering along with faculty Mr. Amit Katoch and Mr. Aditya Sam Koshy visited 'Training Basket' at the I-Thum Tower Noida Sector-62 for an Industrial visit. This visit was mainly to understand the concepts of Web Development & Java technologies



Mrs. Priya Anju trainer and coordinator explained their organization, their methods of working with different technologies, the difference between different programming languages used for the application development, and their advantages and disadvantages. She also explained python and how it has been used in web development. After the tour, a presentation was arranged about the networking devices like modems, and switches and how they are used. Overall, the session was interactive and beneficial for the students.

## Industrial Visit to "Centre for e-Governance, Ministry of Electronics and Information Technology (MeitY)" (01/12/2022)

The department of Computer Science and Engineering went on an Industrial visit to "The Ministry of Electronics and Information Technology (MeitY) 'Centre for e-Governance' (CEG)" on 01 December 22.



The students got to know a wide variety of e-Governance projects of various dimensions under the aegis of both Central and State Governments.

The CeG showcases applications, demonstrations, and presentations that reflect the progress achieved in implementing and using e-Governance. It covers successful and high-impact e-Gov applications and content based on improved citizen service delivery, innovativeness, cost-effectiveness, and overall impact in fulfilling the developmental objectives of the government. Also displayed are various social sector initiatives relating to health and education. Some of the initiatives which are being demonstrated are as follows - e -Aadhaar, e-KYC, Jeevan Parman, Mobile Seva, MyGov, Open Data, e-taal, e-Office, e-Sanjeevani, etc. Students were extremely benefitted from the Industrial Visit.





# Academia Interactions

## **FDP on Cloud Based GIS Application (01 Aug - 05 Aug 2022)**

Five days faculty development program on Cloud Based GIS Application was organized by Department of Computer Science & Engineering and Department of Information Technology. The objective of the FDP was to acquaint the participants with the basic knowledge GIS techniques, Cloud based services and the application of these powerful tools in agriculture and natural environments.

## **Alumni Talk (30 Aug 2022)**

The CSE department and the Institution's Innovation Council (IIC) together organized an Alumni Talk on "Entrepreneurship and creation of wealth for economies, organizations, and people" by Mr. Suraj Jaiswal



## **Seminar on "Research Paper Writing Skills & Guidance" (10 Oct 2022)**

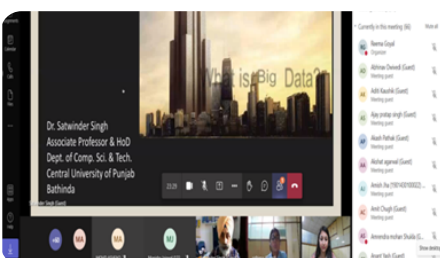
The department of Computer Science and Engineering of IMSEC Ghaziabad organized a seminar on "Research Paper Writing skills & Guidance" on 10th October 2022.

The session was conducted by Dr. Meena Arora, Associate Professor, IT Department, JSSATE, Noida. Dr. Amit Chugh, Associate Professor, CSE, & Mr. Aditya Sam Koshy, Assistant Professor coordinated the session.

## **Expert Talk on "Innovation in Machine Learning" (13 Oct 2022)**

The department of CSE organized an Expert talk on "Innovation in Machine Learning" on 13th October 2022. The session was conducted by Innovation Ambassador Dr. Gaurav Agarwal.

Around 170 students attended the session. Dr. Gaurav Agarwal enlightened the students regarding the basic concept and types of machine learning.



## **Expert Talk on "Big Data for Society" (14 Oct 2022)**

The Department of Computer Science and Engineering of IMSEC organized an online expert talk on "Big Data for Society". The speaker was Dr. Satwinder Singh, Associate Professor and HOD, CST from the Central University of Punjab, Bathinda.

The session was extremely informative and skill-building. Around 150 CSE students from the 2nd, 3rd, and 4th years of the CSE department attended the session.

## **Expert Talk on "Problem Solving and Ideation" (14 Oct 2022)**

An expert talk on "Problem Solving and Ideation" was organized on 14th October 2022 from 2:00 PM to 2:50 PM. The session was conducted by Innovation Ambassador, Mr. Mohit Mittal. The participants were students of First Year. Around 50 participants attended the talk.



# Academia Interactions

## **Student Induction Program (SIP)**

**(07 Nov 2022 to 26 Nov 2022)**

The college has organized 3 week Student Induction Program (SIP) for 1st-year students from 07 Nov 2022 to 26 Nov 2022 on the behalf of CSE Dept. Mr. Aman Rathore, Alumni and Ms. Agrima Gaur , Alumni of the college came as a speaker for the Expert talk. Kamal Singh Bisht working in SIGMOID ANALYTICS as Data Engineer delivered his views on innovation in Data Science on 14th November.



## **Training program on “Microsoft Power BI”**

**(21 Nov 2022 to 08 Dec 2022)**

IMS Engineering College, Ghaziabad has started a training program 'Microsoft Power BI' in association with ICT Academy for B.Tech. 4th-year Students of CSE, CS and IT departments. The program commenced on 21st November 2022 and continued till 08th December 2022. About Power BI: - Power BI is a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights.

## **Digital Painting Contest by FreshLance Club**

**(22 Dec 2022)**

The Artgenix contest was a great opportunity for students to showcase their artistic side and also a chance to convert them into NFT (Non-Fungible Tokens). Students were free to choose the platform and topic of their art. Top 3 Digital Art was converted into NFT (Non-Fungible Tokens) by the club.

WINNERS OF ARTGENIX:

Vasu Tyagi (1st position)

Abhinav Jaiswal (2nd position)

Ojashwa Srivastava (3rd position).



## **Akshaya Society organized a talk on “Entrepreneurship”**

**(23 Dec 2022)**

The main objective of the session was to aware the students about what actually entrepreneurship is. The speakers for the session were Mr. Rahul Chandra, Monkhood Living Cofounder and CEO, Mr. Sachin Sinha, Director Tecroot Space and Air Seiki, and Mr. Sarthak Bahuguna, General Manager Infra.



## **Gaming club organized an event on “Career in Metaverse”**

**(23 Dec 2022)**

Speaker of the session were Ms. Anshika Verma (CEO & Co-founder, Vorphy) and Mr. Saksham Saini (CTO & Co-founder, Vorphy) where they discussed Metaverse, Sandbox and career guidance for the students . To make the session interactive they made student experience metaverse through their VR Games and VR Roller Coaster ride.



# Workshops

The Training & Internship Division provides tailored placement internship preparation during the Month of August 2022 through IT Professional Companies like **ShapeMySkills**. Also Students successfully completed training by Netcamp on “**Network Management with Web Development & Android with Core Java.**”



In-house workshop on “**Job Readiness**”. Training & Internship department conducted by **IMAGE BOOSTERZ Company** on **07th September 2022**. The total number of students were 75 and some images for this program .



The department of CSE organized a Workshop on “**Successful Career Planning, Higher Education & Technical Profile Building**” conducted by CareerLabs on 21st September 2022. The Speaker : **Mr.Satish Anand**, an acclaimed speaker and award-winning international author



## Value-added program conducted:

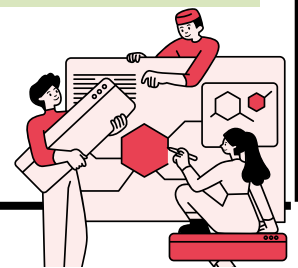
Training & Internship Department conducted a Soft Skills & Quantitative Aptitude In-House Workshop for IMSEC 2nd-year students by **TPC Global** from **10 October 2022 onwards**.



Workshop on **Cyber Security (in association with CISCO)** on **15th & 17th November 2022**, The session was conducted by **Mr. Kartik Bhardwaj, Master Trainer NIIT Foundation**. The audience was faculty members and students of the 5th semester of the CSE department.

Two-day workshop on **Cyber Security**, which was conducted by **Innovative Ideas Infotech**. It was held on **28-29th November 2022**. The students were provided with a certificate, e-books, software, and a toolkit.

The Department of Computer Science and Engineering has organized a technical workshop by “**CODING BLOCKS**” on **21 December 2022** for 2nd Year students. **Lakshaya Singh** took the session who is an **IIIT Delhi (B.Tech) graduate** and has a strong coding background in Java and Python, is known for his unique and intuitive understanding of the concept to simplify problems.



# Faculty Speak

## Deep Learning Model for the Image Fusion and Accurate Classification of Remote Sensing Images

*Prabhat Kumar Srivastava, Basudeo Singh Roohani*

*Professor, Department of Computer Science & Engineering,*

*Assistant Professor, Department of Computer Science & Engineering,*

*IMS Engineering College, Ghaziabad*

**Abstract:** Deep learning is frequently used to categorize photos with different properties. The color, texture, form, and local aspects of an image are extracted from the image data. To build a merged remote sensing image, these features are joined via feature-level image fusion. Fusion photos are processed and divided by a trained deep belief network (DBN), and the land type is identified by a SoftMax classifier. The suggested method can classify all types of terrain, according to testing. Traditional approaches do poorly in classification while being unable to combine deep learning components. Deep learning is used to create useful features that make use of deep learning after PCA reduces the dimensionality of the input. It can be utilized alone or as a springboard for additional research into several alternative dimensionality reduction strategies. Using a technique called projection-based principal component analysis, data can be changed by remapping onto a different set of orthogonal axes. Following remote sensing of land resources, a support vector machine was used to classify the images. Euroset satellite images are used to assess the suggested approach. Both Accuracy and kappa have increased and 128 milliseconds, respectively. The classification effect and model performance are both excellent.

**Introduction:-** By using a variety of working platforms to find remote sensing photos and then analyze the data, ground information can be discovered using remote sensing technology. "Ground truthing" is the name given to this method. Remote sensing technology will produce visual data as it develops. Remote sensing-based image classification is a prominent topic. In the past, artificial visual methods have dominated image interpretation. This is a time- and money-waster that doesn't increase accuracy. Computers and algorithms have replaced manual picture classification as the new benchmarks. Additional details about the items may be revealed by high-resolution hyper spectral images of them. Hyper spectral photography is the process of taking pictures in dozens, if not hundreds of distinct and sequential bands across the whole electromagnetic spectrum, from visible to infrared. A variety of situations may be examined with this imaging technology. One of the most helpful pieces of equipment for reaching this objective is a hyper spectral imager. There's a possibility that one of these stripes will reveal details about the pertinent symbol. Most likely, a satellite or an aircraft flying overhead took this entire picture. There is a ton of room for research and development in the electromagnetic spectrum's visible and infrared regions. It's feasible that a variety of industries will profit from the use of hyperspectral photography. Examples of productive activity include farming, serving in the military, and mining. The classification is made more difficult by the amount of feature data. Land-related remote sensing photos must be categorized using detailed property data. Nine features, including color, texture, portion, and form, are extracted by the suggested method. We were able to precisely represent sensor data via remote sensing.

The study of gray level spatial dependency uses a matrix called the gray level co-occurrence matrix (GLCM). There are two columns and four rows in it. The spatial values of the image are determined by the overlap of the two pixels. Sort the land cover using large-scale remote sensing images to learn about geography. Hyper spectral, high-space, and high-resolution images are obtained by remote sensing. Photographs can be used in creative ways since they contain more information. Data from land remote sensing is large, intricate, and frequently updated. The goal is to use a computer to extract useful data from remote sensing photographs. This encourages the use of land. A pattern recognition system can be used to categorize remote sensing photos. With this method, remote sensing images may be automatically identified. In studies on the classification of land resources, remote sensing, conventional pattern recognition, and visual interpretation are frequently used. Classification mistakes could occur because visual interpretation takes time. These are chance- or distance-based tactics. In order to plan coastal land use, the initiative gathers data using high-resolution remote sensing images. It is possible to analyze the spatial motion remote sensing image sequences to discover more about the surrounding environment and moving objects. Science rarely discusses environmental issues. Remote sensing images can be categorized in a variety of ways. The two techniques that describe a strategy for normalizing NDVI data over time are regression trees and least distance. Riparian zones' ecological stability requires that this be done. A useful tool for detecting whether there have been long-term changes in the state of vegetated areas is the Normalized Difference Vegetation Index, or NDVI. Fuzzy theories, expert systems, and artificial neural networks (ANNs) are some of the cutting-edge categorization techniques that have emerged as remote sensing and computer technology have advanced. Both fuzzy theory and expert system technology are state-of-the-art. Support vector machines (SVM) and k-nearest neighbors are two techniques that can be used to classify remote sensing images. By merging spectral and geographic remote sensing data with SVM class separability, distance is determined.

### **Conclusion:-**

Seasons have an impact on landforms, due to this reason most categorization techniques do not result in flawless recognition, hence land cover is crucial for understanding the natural context. These numbers show that the DBN model performs the categorization the best.



# Clubs by CSE Dept.



## FREELANCE CLUB

" Freshlance club " A Freelancing Club , the club is working under CSE department of IMSEC, strives to help students in exploring and monetizing their skills and hobbies.

This club was founded by Akash Srivastava in 2021 and now running under the guidance of faculty co-ordinator Mr. Aditya Sam Koshy and Ayushi Sahani as president.

We aim to provide exposure to students about Freelancing , Cryptography , NFTS ,Metaverse and other latest technologies that will surely help in developing business mindset and overall professional development among students.

This club conducts activities, workshops, competitions and also brings freelancing opportunity for students.



Apti Smart Club

## APTI-SMART CLUB

" Apti Smart Club V 2.0", much needed club for students of IMSEC working under CSE Department. Faculty coordinator of club is Mr. Vivek Jain( Assistant Professor).

The club was initially founded by Apporva Rauniyar and now this version 2.0 is lead by Astha Singh as president and Utkarsh Sharma as vice - president .

The vision and mission of this club is to fix the 1st step of students towards their way to placement. Thus we work to form the base of students in their path of placement.

Club conducts quizzes, orientation in both online and offline mode time to time so that students never stop practicing and learning.

We aim to provide students opportunity to enhance there skills and time management.



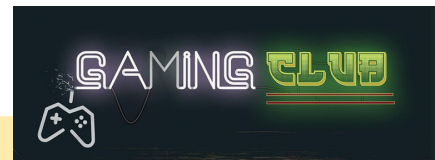
## RUNTIME HACKERS

" Runtime Hackers " , the club working under the aegis of CSE department of IMSEC. Faculty co-ordinators Dr. Sonali Mathur ( HOD CSE) and Assistant Professor Monika.

The club is founded by Deependra Singh and is coordinated by sincere core members Prajwal Rathore, Devansh Pradhan , Yashverdhan Gupta , Divyansh Srivastava and Shubham Chaudhary

The aim of the club is to make the students technically sound and enhance their coding skills . The entire team coordination is working harder to bring out the noticable changes in the growth of the department so that each one of us can be better informed, well prepared and build our own reserve of knowledge.

Club timely conducts many activities like COdecode, orientation programme , Hackathons, and infact regular coding sessions for betterment of department.



## GAMING CLUB

"Gaming Club," the club working under the aegis of the CSE department of IMSEC,, Mr. Amit Kumar as faculty co-ordinator.

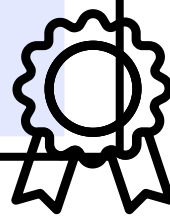
The club is founded by Vinayak Dubey. Gaming Club will aim to discipline our students' hobby of gaming and provide a competitive and structured approach to this favorite past time. It will empower them to think creatively. Gaming Club's main objective is to use the programming language to develop games and to develop their skills, which can be helpful in other fields.

The gaming club is focused on having fun and meeting new people. This club was founded with love by passionate gamers. Anyone is welcome to join the club anytime! Whether you're a student looking to get into gaming, a veteran gamer, or a speed runner, this club is the perfect opportunity for relaxing and enjoying free time!



# Faculty Achievements

SNO	NAME	DOMAIN AREA	ORGANIZATION
1	Dr.Sonali Mathur	<p>Patent published with title :- A system for vehicle accident avoidance at sharp turning and method thereof.</p> <p>Successfully completed Innovation Ambassador (IA) training, "Foundation Level"</p> <p>Published a patent with the title "A Machine Learning System for Predictive Maintenance of HVAC</p> <p>Attended a workshop on "Cyber security"</p>	<p>IMS Engineering College, MoE's Innovation cell , AICTE and Innovative Ideas Infotech</p>
2	Mr. Nitin Goyal	<p>FDP on "Artificial Intelligence for Sustainable Development"</p> <p>Published a patent with the title "A Machine Learning System for Predictive Maintenance of HVAC</p> <p>Completed a 9-day FDP on "Design and Development of Industry-led Curriculum in Technological era</p>	<p>Artificial Intelligence Research Centre, IMS Engineering College and Dept of CSE, BBD University</p>
3	Dr. Subhajit Ghosh	<p>Serving as a PC member of the conference MIDAS-2022</p> <p>Presented an Expert Lecture on "Innovation in Teaching Practices"</p>	<p>Université de Versailles Saint Quentin-en- Yvelines and IQAC</p>
4	Dr. Amit Chugh	<p>Participated in ISEA-II Sponsored Short- Term Course on Cyber Security: Managing Risk in the Information Age.</p> <p>Participated in FDP on "Security Aspects in Computer Science and its Applications (SACSA-2022)</p>	<p>Dr B R Ambedkar NIT, Jalandhar and MNNIT Allahabad, Prayagraj</p>
5	Mr. Vibhor Harit	<p>5 days workshop on "Geo-data sharing and Cyber Security"</p>	<p>Indian Institute of Remote Sensing, Dehradun , ISRO.</p>
6	Mr. Gaurav Agarwal	<p>Completed his Ph. D and has been awarded a Provisional certificate for his Doctoral degree.</p> <p>Delivered an Expert Talk on Course File Preparation as per the National Board of Accreditation (NBA).</p>	<p>Indian Institute of Technology ISM Dhanbad and IMS Engineering College</p>
7	Dr. Reema Gupta	<p>Filed a Patent with title "Wireless security systems powered by the internet of things, AI &amp; ML"</p>	<p>IMS Engineering College</p>



# Faculty Achievements

SNO	NAME	DOMAIN AREA	ORGANIZATION
8	Mr. Pankaj Kumar	Filed a patent with the title "An IoT Device Management Encryption for Defibrillators and method thereof"	IMS Egeering College
9	Ms. Monika Singh	FDP on "IoT Induced Artificial Intelligence for Emerging Computing paradigms"	Dr. B R Ambedkar NIT Jalandhar.
10	Ms. Anamika Goel	FDP on "IoT Induced Artificial Intelligence for Emerging Computing paradigms"	Dr. B R Ambedkar National Institute of Technology, Jalandhar
11	Ms. Bhumica Verma	Participated in the online FDP on Cloud Computing and its Applications: Opportunities and Challenges Attended a workshop on "Cyber security"	NIT Jalandhar and Innovative Ideas Infotech
13	Mr. Mohit Mittal	Participated in short-term course :- "Cyber Security: Managing Risk in the Information Age"	Dr. B R Ambedkar National Institute of Technology, Jalandhar
12	Mr. Basudeo Singh Roohani	Online FDP on "Online teaching platform and Tools"	Government College of Women, Jammu
13	Ms. Kanika Malik	Worked as a mentor in the "Microsoft BI training" Attended Expert talk on "Big Data for Society".	ICT Academy and IMS Engineering College
14	Ms. Garima Saini	Attended FDP on "Microsoft Power BI Data Analyst"	ICT Academy at Bennett University , Gautam Buddha nagar.



# Students Achievements

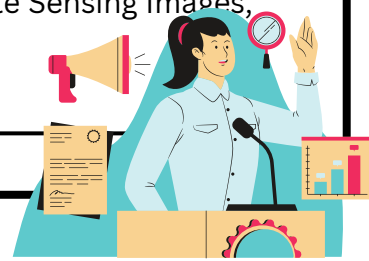
SNO.	NAME	DOMAIN AREA	ORGANIZED BY
1	Harshit Shukla	Won a prize in AKTU Zonal Level Chess	IMS Engineering College
2	Pratyush Giri	Won a prize in AKTU Zonal Level Chess	IMS Engineering College
3	Prince Kaushal	Participated in Tata Imagination Challenge, TVS Credit IT Challenge, Consultation Hackathon 3.0, and Hackathon by UP Police to reduce Cybercrimes	BITS PILANI
4	Vishal Singh	Completed front-end course from CISCO and joined the Boot camp Google drive and participated in TVS Credit IT Challenge	Devtown
5	Sarthak Srivastava	Participated in TVS Credit IT Challenge (Qualified for 2nd round), and Hackathon to reduce Cyber crimes	UP Police
6	Rishabh Gupta	Participated in Tata Imagination Challenge, TVS Credit IT Challenge, Hackathon by UP Police to reduce Cybercrimes	UP Police
7	Naman Gupta	Organized a session on "What is GitHub and how to use it".	CSE Department
8	Vanshika Sharma	Won the first prize in solo dance competition and group dance competition	IMS Engineering College
9	Hemlata	Participated in Deeptosav and won 1st prize in Poster Making	IMS Engineering College
10	Devansh Agarwal, Ishika Sharma and team.	Participated in a Zonal level Hackathon at ABES Engineering College and ranked 1st in the Dr. Abdul Kalam, Technical, Literary and Management Fest.	Abdul Kalam, Technical, Literary and Management Fest.
11	Vasu Kumar Nagar, Shorya Seth and team	Stood first runner-up (4th position) in a Hackathon	COER College of Engineering, Roorkee
12	Chirag Goel and Tushar Singh	Got the 209th Rank and Got 291st rank	Innovate India Coding Championship (IICC) by AICTE and Chandigarh University at Chandigarh





# Publications

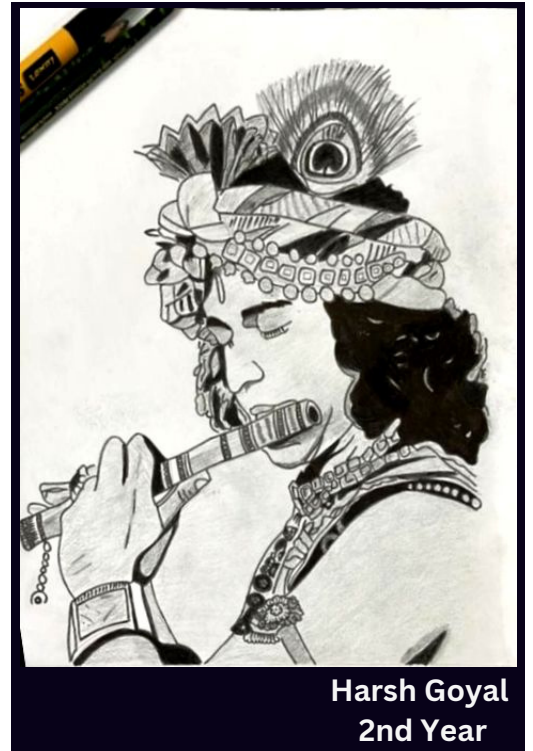
- **Goel, A.**, Wasim, J., & Srivastava, P. K., Multimodal Medical Image Fusion Method using Stationary Wavelet Transform and Yellow Saddle Goatfish Algorithm. Journal of optoelectronic Laser, Vol.41 No. 10(2022) ,260-270
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- **Kumar, A.**; Srivastava, S; Gupta, S; Pandey, S; Singh, S, Safe: Security Alert for Female, Journal of Android and IOS Applications and Testing, Volume-7, Issue-2 (May-August,2022), <http://www.matjournals.com>
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- N. Sharma, P. Tyagi, R.Raj, S. Pal, and **V. Jain**, (2022)Review on Forbidden Car Detection System Based on Image Processing”, IJRASET, vol. 10,no. 12, pp. 1447-1480, Dec. 2022.
- **Khan, N.**, Singh, A. V., & Agrawal, R. (2022). Enhanced Deep Learning Hybrid Model of CNN Based on Spatial Transformer Network for Facial Expression Recognition. International Journal of Pattern Recognition and Artificial Intelligence, 36(14), 2252028./10.1142/S0218001422520280 (IJPRAI, World Scientific, SCI Indexed Journal)
- **Khan, N.**, Singh, A. V., & Agrawal, R., “Challenges and Issues in Facial Emotion Recognition Techniques” is accepted with Int. J. of Business Intelligence and Data Mining, 2022. (IJBIDM, Inderscience, Scopus Indexed)
- **Chugh, A.**, & Panda, S. P. (2022). Monitoring Supply Chain Management in Healthcare Using Wireless Sensor Networks. In Smart Healthcare for Sustainable Urban Development (pp. 115-122). IGI Global. Monitoring Supply Chain Management in Healthcare Using Wireless Sensor Networks: Medicine & Healthcare Book Chapter | IGI Global ([igi-global.com](http://igi-global.com))
- Mohanakurup V., Baghela V. S., Kumar S., **Srivastava P. K.**, Doohan N. V., Soni M., Awal H., 5G Cognitive Radio Networks Using Reliable Hybrid Deep Learning Based on Spectrum Sensing, Volume 2022 | Article ID 1830497 | <https://doi.org/10.1155/2022/1830497>
- Mary S. R., Pachar S., **Srivastava P.K.**, Malik, M., Sharma, A., Almutin T.G., Atal Z.,Deep Learning Model for the Image Fusion and Accurate Classification of Remote Sensing Images, Journal of Computational Intelligence and Neuroscience (Accepted).



# Artistic View



Megha  
2nd Year



Harsh Goyal  
2nd Year



Aadhya Gupta  
3rd Year



Aastha Agarwal  
3rd Year



Megha  
2nd Year



# Articles

## "Girls' Safety in our Country"

Not a day goes by where you don't hear of the news of a crime against women in India. We all are aware of the crimes that every female in our country is facing. We read in newspapers how many girls are raped daily and not only raped but also murdered. No girl is safe on the roads of the country. We often teach our girls not to go out at night, and not to wear short dresses but we never teach our boys how to respect girls, how to value them and how to behave with them. We have often heard people saying that if a girl is raped then it's the fault of the girl that she was out at night, she might be wearing a short dress etc. but no one says that boy was wrong or his thinking was wrong or his way of seeing and judging the girl was wrong. The whole point is the mentality of society. They always blame girls for every crime against them. And when it comes to punishing criminals, the government and the police department are never active. We all have heard about the Nirbhaya case and many more. It almost took 7 years to catch and punish the criminals. Does it really takes 7 years to catch 5-6 criminals and punish them? Is the police force really so weak to catch them? There are many cases of rape in India that are still pending and their criminals are still not punished and they are roaming outside without any fear. There are many families whose girls were raped but they never complain to the police about it and the reason for this is what will people say and the fear of society. Taking candles in hand and marching along the streets is not sufficient to end such crimes. We all need to take initiative instead of teaching girls we need to teach boys how to respect every girl. The criminals should never be left they should be given strict punishment so that they never dare to touch a girl again. Instead of giving speeches, lectures and writing about crimes against girls we all should take an oath that we all will provide safety to girls. Whenever we see a girl in problem, we will help her out without thinking because safety lies in our hand. So, never blame girls for every crime against her. Instead, learn to respect her and her values and emotions.

- Simran  
2nd Year

## CYBERPSYCHOLOGY

Cyberpsychology is a newly coined term which takes psychology, cyberspace and mixes them together.

it is a developing field that encompasses all psychological phenomena associated with or affected by emerging technology.

Cyberpsychology looks at how we behave in cyberspace, how we interact with and through different devices, as well as how our offline behaviors have been affected by the use of technology and the internet

The British Psychological Society (BPS) describes the field of cyberpsychology as "a scientific inter-disciplinary domain that focuses on the psychological phenomena which emerge as a result of human interaction with digital technology, particularly the Internet."

There is no right or wrong way to go about cyberpsychology, as long as it has its base roots within both cyberspace and psychology. This means excluding pseudo-psychology and personal bias in order to fully comprehend the human brain at its most distilled and pure form.

- Ayushi Sahani  
3rd Year



# Creative Corner

## DO-GOODER



### **Achievement:-**

Hey, My name is Kush Agarwal and I have been working and leading an NGO which is government-certified named "Hopes and Dreams". We are team of 100-120 members and we have organized several events & drives for the betterment of society.

Few of our events are as follows:

- 1) Blood donation campaigns
- 2) Langar Seva
- 3) We started school for under-privileged children
- 4) Regular Sanitary Napkin drives
- 5) Donation Campaigns for Quilts, New Clothes, etc.
- 6) Completed a project named "PROJECT MAKEOVER" which aimed to make poor families financially Independent.
- 7) Our team actively helped during Covid-19.
- 8) Our team regularly visits orphanage and old age homes.

Starting at a very early age, volunteering and leading has not only taught me about the various challenges in the society but it also helped me to improve myself as a person every single day. I find a lot of happiness and peace in doing my bit for the society. Now, I can see so many changes in me & my life. I am so much thankful to be a part of the "Hopes & Dreams family."

**KUSH AGRAWAL**  
**2ND YEAR**

## When I Lost you

Wasn't everything good enough when you were here?

The frame with that dusty glass cover portraying the beauty of our togetherness

Still kept beside your old wine bottle

You stopped breathing here

But still the aura of my room is your fragrance

And that candy wrap that you were trying to hide under your pillow is now found

And that signature on the glasspane of your window

Has started to seem of no use now

Those quotes and those harlequin paper notes "Ahh! I told you are of no use"

My bad!! I know you were in love with that white self painted t-shirt

I'm going to throw it right away

Your cracked coffee mug having your favorite song lyrics are now just words of noise to me

Cause I'm obsessed with your cracked voice

And do you know?

It all happened when I lost you

- Deependra Singh  
3rd year

**IF SUCCESS()== TRUE:**  
**CELEBRATE()**  
**WHILE SUCCESS()== FALSE:**  
**TRY\_AGAIN()**  
**BE\_AWESOME()**



# Piece of Poetry

वो खुशी, वो आंसू, तू थी मेरी उन बातों में  
कल ही तो लिया था तुझे, पहली बार अपने हाथों में।

.....

जब तुझसे बातें कर , तेरे नन्हे हाथ पकड़ रो जाता था मैं,  
जब तेरा नन्हा चेहरा देख, तेरे पास ही सो जाता था मैं।

....

तुझे जब तेरी चोट ने पहली बार रुलाया था,  
याद है मुझे, तूने कैसे पहली बार मुझे 'पापा' बुलाया था।

.....

तेरी माँ से तेरी बात करते रो जाता हूँ आज भी मैं,  
तेरा चेहरा देख, तेरे पास ही सो जाता हूँ आज भी मैं।

....

खेलना, कूदना, तेरा हर दिन मुझे मुह जुबानी याद है,  
ये दुनिया , मैं खुद, सब कुछ मेरे लिए तेरे बाद है।  
वो जो पहला कदम था तेरा, मुझे आज तक वो दिन याद है,  
ओर चिंता मत कर, तेरे हर कदम में तेरे पापा तेरे साथ है।।

.....

तुझे पल भर में बड़ा होते देखा है,  
तेरी माँ को मैंने, तुझसे बात करते रोते देखा है।

....

बेटी के रूप में भगवान ने मुझे अपना रूप दिया है,  
तेरे बाद आज तक झोली फैलानी नहीं पड़ी, भगवान ने मुझे खूब  
दिया है।

.....

विदा होगी तू, तेरा घर पराया हो जायेगा,  
मेरी झोली की खुशियों का प्यार तेरा सारा हो जाएगा।  
तेरे बिना ये आंगन अधूरा लगेगा मुझे,  
पर तेरी ज़िन्दगी का सफर फिर खुशियों से पूरा लगेगा मुझे।  
याद आएगी तेरी ,तो फोन लगा दूंगा तुझे,  
दिल मे जो भी होगा, सब बता दूंगा तुझे।  
याद है बचपन में कैसे रूठ जाती थी तू मुझसे,  
मैं तुझे मना भी नहीं पता था,  
वादा करता हूँ, अब कभी रूठी, तो मना लूंगा मैं तुझे।।  
वो तेरे बचपन का हर किस्सा मुझे हमेशा याद रहेगा,  
तेरी विदाई के बाद, मैं कहूंगा नहीं, पर मेरा मन तेरे ही पास रहेगा।।

- Eshita Garg  
2nd Year



कितने पहरें है?  
कहने को तो एक है,  
पर देखे मैंने अनेक है।  
ये चेहरे है,  
डाले कितने पहरें है।  
मानो तो इंसान अजीब है,  
जानो तो सबकी अलग तहज़ीब है।  
राज़ जितने गहरे है,  
हम उतने ही बहरे है।  
यहां जितने ही अलग शख्स है,  
हर कोई ढूंढता अपना अक्स है।  
ये चेहरे है,  
डाले कितने पहरें है।  
हर किसी को चाहिए यहां साथ है,  
पर देते नहीं एक दूसरे को हाथ है।  
हमारे अंदर उठती ये कैसी लहरे है,  
उलझने जितने उतने ही होते ये गहरे है।  
हर किसी के पास वक़्त ही वक़्त है,  
यहां जीतता वहीं जो सशक्त है।  
ये चेहरे है,  
डाले कितने पहरें है।

- अपूर्वा रौनियार  
4th year



# Alumni's Message



**VIKALP MISHRA**  
(BATCH 2015-19)

At the very outset, I would like to express my heartiest thanks to the IMS family. It was a very wonderful journey here for 4 years. The faculty was very supportive and encouraged me to push my limits and help me achieve my goals. Currently, I am doing well as a Business Analyst at DXC Technology.

I miss that environment and those days were the best for me.

**ABHISHEK GUPTA**  
(2015-19)

Hi, My name is Abhishek Gupta. I did my bachelor's degree from IMS Engineering College and Master's from IIITDM, Jabalpur. Currently, I am working at Cognizant as an Associate.

IMS is a place where not only an engineer but a professional comes out after a journey of 4 years. In these 4 years, a scholar takes admission, learns core subjects, performs experiments and puts creativity to become a skilled professional engineer. Not only studies but students get chances to show their talent in annual sports events, cultural fests and also college organizes technical fests where you put your innovation idea and programming skill to build a new generation projects. Here, the professors guide and motivate us at every step. Also, every department provides personal development sessions which enhance our professional skills. Hence, after this amazing journey you find yourself a better you.

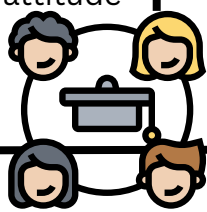


**AGRIMA GAUR**  
(BATCH 2016-2020)

Well, IMS Engineering College has brought a huge change in my personality. The way the lecturers explained each and every single point helped me a lot in my career. Those little things they shared in our classes were extremely helpful. What to do in holidays, what trainings to do, etc.

Also, various tech fests helped me to make some real time projects and got to learn so much.

Now, I am here in TCS, working as an Assistant Project Manager in CIBC Bank in Canada, and if I can come up to this, we all can and excel much more in our lives if we have goals and a right attitude towards it.



# Alumni's Message

## **HARSHIT GUPTA** **BATCH (2015-19)**

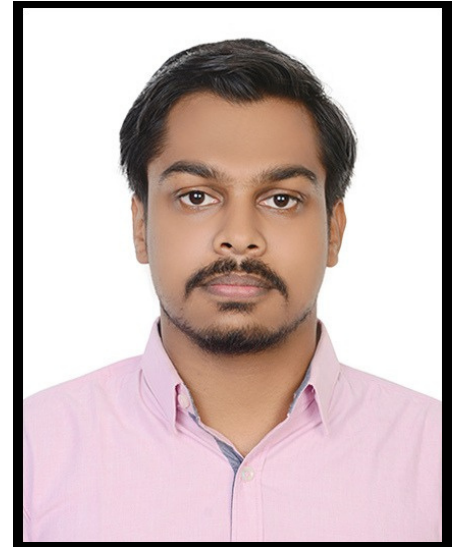
"Certain experiences should be treasured, and some stories should be shared."

I, Harshit Gupta, batch(2015-19) Research Engineer at TCS Research and Innovation, post graduate in Computer Networks from IIIT Gwalior, and did my bachelor's in Computer Science & Engineering from IMS Engineering College.

It has been an incredible four years at IMSEC. The experience gained while pursuing my degree in IMSEC has been a major driving force in shaping my career and further enabling me to pursue a Master's Degree. This institute nurtured me and brought out the best in me by providing various platforms at university and departmental levels to unleash my potential and realize my strengths in curricular and co-curricular. I also want to highlight the contributions of the Professors of the CSE Dept. all the Professors were enthusiastic and encouraging.

Those fantastic four years, with some exemplary mentors and lifetime friends we had, made the best chapters in my life.

Thank You, IMSEC!



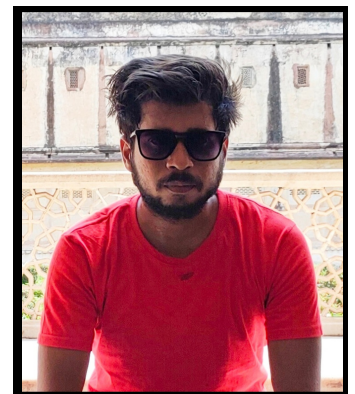
## **SHUBHAM MISHRA** **BATCH (2018-2022)**

Coming to IMS Engineering College, I was unsure about my future and my goal, but the college environment taught me to find a way to a successful journey. I cherish each moment that I spent at IMS Engineering College, it is the place from where I got recognition for the first time in my life. It has and will always have a special place in my heart.

## **PIYUSH VERMA** **BATCH (2018-2022)**

I became a part of IMSEC from 2018. The journey of four years was very smooth because I got good mentors who helped me in my every problem and always guided me for my betterment.

Be Passionate, Always work hard, be focus and always push your limits. These four rule and regular practice helped me to be what I am today. At the end of the college I grabbed 5 offer letters in my hand from the companies Qualitest, TCS, Wipro, AttainU and HCL. The most important thing which I have learned till now by being the part of this corporate life is that make connections with others and remember to look on the bright side.



# Placements

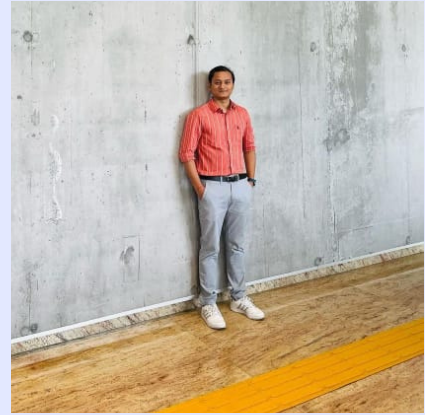
## HIGHEST PACKAGE



**Shubham Mishra**



Placed in Microsoft  
50 LPA



**Prashant Chand**

100 + OFFERS FOR CSE STUDENTS

COMPANIES VISITED :



Magic EdTech



JOSH  
TECHNOLOGY  
GROUP



QUALITEST™



jaro  
education®



AND MORE...







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 Technical University, Lucknow UP

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