



# ANNUAL DIGEST

Department of Information Technology



Magazine / November 2024



# Vision

To emerge as a centre of excellence producing globally competent and morally sound professionals in the field of Information Technology who will practice commitment to their profession and dedicate themselves to the service of mankind.

# Mission

To develop state-of-art laboratories providing relevant practical inputs to students.

To provide strong knowledge base to students in the area of Information Technology and to train them as per the requirement of industries and research organizations.

To facilitate institute industry interaction to the benefit of stake holders and motivate teachers for the continuous improvement of their academic standards.



# PSO'S & PO'S

## PSO'S

- Design reliable and efficient software systems using software design principles, algorithm design techniques and data structure.
- Select appropriate software, hardware and networking environment for IT needs of any organization.
- Use modern technologies such as Artificial Intelligence, Big Data, Cloud Computing for building real world applications.

## PO'S

- Engineering Knowledge
- Problem Analysis
- Design/ Development of Solutions
- Conduct Investigation of Complex Problems
- Modern Tool Usage
- The Engineer & Society
- Environment & Sustainability
- Ethics
- Individual & Team Work
- Communication
- Project Management
- Life - Long Learning



# ENRICHMENT ACTIVITIES



## Faculty Development Program

- The FDP was held from April 1-5, 2024, with 105 participants in a hybrid format.
- Dr. Sarfaraz Masood discussed deep learning, and Prof. Anand Nayar covered autonomous car security.
- Prof. Srinivasa K G focused on generative AI in teaching, while Dr. Pritee Parwekar discussed online privacy and ChatGPT.
- Dr. Meenu explored machine learning using Python, and Dr. Deepak Kumar Jain discussed deep fakes.
- Prof. Archana Singh elaborated on the applications of generative AI, and Dr. Gurpreet Singh covered AI with cloud computing.
- Dr. Ashish Gupta highlighted AI bias in medical systems, and Prof. A.K. Mohapatra explained authentication protocols in cybersecurity.
- The program aimed to update participants on advancements in computational intelligence and cyber security.
- It was praised for enhancing skills, knowledge sharing, and technical competence among attendees.

## Workshop

- Organized Workshop titled "Research Writing Skill & ethics" organized by Department of AIDS/CSE-DS in collaboration of IT dated 23 April 2024 by Prof. Abhishek Swaroop (HOD IT) & Dr. Ashish Khanna (Associate Professor) in MAIT.

# SOCIETIES HIGHLIGHTS



- An Orientation Program was held on 1st October 2023, where 52 students participated. The session introduced NSS, focusing on the role of volunteers in nation-building.
- The Shramdaan Event was organized on 26th September 2023 with 70 students participating. The event promoted cleanliness and paid tribute to Mahatma Gandhi.
- On 2nd October 2023, Gandhi Jayanti was celebrated by 50 students, with a Poster Making and Essay Writing Competition.
- The Vigilance Week Quiz was conducted online on 31st October 2023, with 244 students participating to raise awareness about the Central Vigilance Commission and vigilance.
- An Integrity Pledge Campaign was organized online on 3rd November 2023, with 150 students pledging for a corruption-free society.
- The Cloth Donation Drive spanned from 9th to 25th November 2023. Warm clothes were collected and distributed to the needy on 8th December 2023.
- An online quiz, Viksit Bharat @ 2047, was conducted on 31st January 2024 with 134 participants, focusing on India's development goals.
- A Rangoli Making Competition was held on 14th February 2024 in Room 7 and the Reception Area to celebrate India's progress under Viksit Bharat @ 2047.
- The Solo Singing Competition took place on 14th February 2024 in Room 6A, celebrating cultural diversity as part of the Viksit Bharat @ 2047 program.
- A Cleanliness Drive was conducted on 21st March 2024 in the Main Ground and Canteen Area, encouraging collective responsibility.
- The 10th International Yoga Day was celebrated on 21st June 2024 to promote physical and mental well-being through yoga, involving both students and faculty.



**NSS**  
**BPIT**



# Google Developer Student Council BPIT

- On 27th August 2023, 50 students attended the Info Session to explore GDSC opportunities via Google Meet.
- On 1st September 2023, 55 students participated in the Cloud Study Jam, learning cloud computing tools.
- On 8th September 2023, 47 students attended Dive into Gen AI, focusing on AI advancements in collaboration with NSCC BPIT.
- On 20th September 2023, 75 students engaged in a Google Cloud Hands-On Workshop, involving practical cloud learning in Lab 220A.
- On 6th October 2023, 18 participants were guided through open-source contributions during the Hacktoberfest Contribution Workshop.
- On 16th October 2023, 78 students learned from Taranjot Singh on How to Ace Hackathons, sharing valuable insights.
- On 21st October 2023, 107 students joined a session on cloud databases and innovation led by Abhirami Sukumaran.
- From 28th to 30th November 2023, 1,000 participants engaged in Sovesphere, a 48-hour sustainability-focused solution challenge.
- On 10th December 2023, 260 students collaborated across 10 GDSC chapters for the Solution Challenge Info Session.
- From 24th to 29th February 2024, 100 students participated in DevSprint, a five-day exploration of web development, machine learning, and Flutter.
- On 21st April 2024, GDSC WoW, involving 70+ GDSCs, took place with tech sessions and hands-on workshops.
- On 26th April 2024, 200 students were introduced to the Gen AI Study Jam, covering Generative AI and related tools.



- On 9th August 2023, the Codenheimer coding contest was held, promoting competition and coding culture at the college.
- An orientation was conducted for the 2027 batch, focusing on teamwork, leadership, and technical opportunities within Hash Define.
- A masterclass on Hacktoberfest was led by Harshit Jain, covering open-source contributions and encouraging students to participate.
- The Peptalk with Striver event featured Raj Vikramaditya from Google, discussing placements, MAANG interviews, and personal experiences.
- Codetrek hosted Apoorv Kumar, a competitive programming expert, who shared tips on climbing ranks in platforms like Codeforces and CodeChef.
- A session titled Masterclass to Hacktoberfest was conducted, focusing on open-source contributions led by Harshit Jain.
- The Peptalk with Striver session by Raj Vikramaditya provided insights into placement preparation, including MAANG interview tips.
- Codetrek was held, where Apoorv Kumar discussed competitive programming, languages, and DSA, providing valuable guidance to students.
- The Peptalk with Striver event included discussions on time management, working abroad, and MAANG interview processes.
- Codetrek brought together students to learn from Apoorv Kumar's experiences in competitive programming and balancing it with DSA and languages.



# Hash Define

# Achievements



## Faculty Achievements

- **Dr. Abhishek Swaroop:** Published 4 edited books through Springer; served as the Editorial Chair of ICDAM-2024; supervised 1 PhD from Bhagwan Mahavir University, Surat; published 3 SCI, 2 SCl, and 1 Scopus research papers.
- **Dr. Anusha Chhabra:** Awarded a commendable research award by DTU; delivered a talk on "Generative AI" under Viksit Bharat Mission; published 7 research papers.
- **Dr. Meenakshi Aggarwal:** Attended an FDP on "Research Trends in Recent Technologies, Computational Intelligence & Cyber Security"; published 5 research papers.
- **Dr. Pooja Mudgil:** Completed a PhD and was awarded a doctoral degree in Computer Science and Engineering in September 2023; published 3 SCI research papers.
- **Dr. Rachna Jain:** Session Chair in multiple international conferences, including the 7th International Conference on Innovative Computing and Communication (ICICC-2024) in February 2024, the 2nd International Conference on Advancement in Computation & Computer Technologies in May 2024, the 5th Doctoral Symposium on Computational Intelligence (DoSCI-2024) in May 2024, the International Conference on Computational Intelligence and Computing Applications (ICICCA-2024) in May 2024, the 5th International Conference on Data Analytics and Management (ICDAM-2024) in June 2024, and the 5th International Conference on Artificial Intelligence (AITA-2023) in August 2023; published 3 SCI, 4 SCI, 5 SCI, 6 SCI, 7 SCI, and 8 SCI research papers across various conferences.
- **Dr. Varsha Sharma:** Organized multiple expert lectures and seminars, including topics such as "Cybersecurity" by Mr. Yash Dhingra (April 26, 2024), "Pyspark & Generative AI" by Mr. Ayush Ailawadi (April 29, 2024), "Navigating Diverse Career Horizons and Unveiling Business Analyst's Odyssey" by Mr. Parth Jain (April 19, 2024), "Latest Advancement & Developments in Data Science" by Utkarsh Sharma (April 16, 2024), "How to be Confident in Interviews" by Ms. Shweta Sharma, and "Career in IT Solutions and Services" by Mr. Samruddha Patil; received the Gandhi Peace Award from the Eshaas Foundation in August 2023.

# Student Achievements

- **Nibedan Pati (3rd Sem, IT-B):** Achieved 3rd place at MI MIT Hackathon, Manipal, Karnataka (16th Oct, ₹20,000); Cleared round 1 of SIH Internal Round (12th Sep).
- **Nittish (3rd Sem, IT-C):** Participated in SPORTS DAY at BPIT College (8th Oct); Cleared round 1 of SIH Internal Round (12th Sep); Completed internships at Cantilever (15th June) and Skill Eclipse (1st Aug); Competed in Code4Cause 2.0 Hackathon at NSUT Dwarka (7th Sep, 4th place).
- **Kavi (3rd Sem, IT-C):** Cleared round 1 of SIH Internal Round (12th Sep).
- **Anamika Singh (3rd Sem, IT-C):** Cleared round 1 of SIH Internal Round (12th Sep); 2nd place in Ecstasy 2024, DIAS, Rohini (17th Mar); 3rd place in Anugoonj 2024, USICT (10th Feb); Presented poster on Semiconductors & Quantum Physics at BPIT (6th Mar).
- **Divyansh Gupta (3rd Sem, IT-A):** Cleared round 1 of SIH Internal Round (12th Sep); Participated in Voice of Campus under Viksit Bharat@2047 at BPIT (14th Feb).
- **Karan Joshi (5th Sem, IT-B):** Cleared round 1 of SIH Internal Round (12th Sep).
- **Mani Tyagi (5th Sem, IT-B):** Cleared round 1 of SIH Internal Round (12th Sep).
- **Aastha Negi (3rd Sem, IT-A) -** Cleared round 1 of SIH Internal Round (12th Sep).
- **Priyanshi Bothra (3rd Sem, IT-A):** Cleared round 1 of SIH Internal Round (12th Sep); Participated in MI MIT Hackathon, Manipal, Karnataka (16th Oct); Engineers Day Exhibition at BPIT (13th Sep); PR Head (Octave), Project Char (Drishti) at BPIT (13th Jul); Presented poster on Semiconductors & Quantum Physics at BPIT (6th Mar).
- **Neha Rawat (3rd Sem, IT-B):** Cleared round 1 of SIH Internal Round (12th Sep); 1st place in Anugoonj 2024, USICT (10th Feb, ₹1,500); 3rd place in Ecstasy 2024, DIAS, Rohini (17th Mar).
- **Roshni (5th Sem, IT-B) -** Cleared round 1 of SIH Internal Round (12th Sep); Presented research paper at USRCSET (12th May).
- **Yash Bhardwaj (3rd Sem, IT-C):** Cleared round 1 of SIH Internal Round (12th Sep).
- **Anupam (3rd Sem, IT-C):** 4th place in Youth4Future Hackathon at MSIT (12th Sep).
- **Saumya (3rd Sem, IT-C):** Participated in Rangoli Competition under Viksit Bharat@2047 at BPIT (14th Feb).
- **Aditi Sharma (3rd Sem, IT-C):** Cleared round 1 of SIH Internal Round (12th Sep); Participated in Voice of Campus under Viksit Bharat@2047 at BPIT (10th Feb); IKS Exhibition under Viksit Bharat@2047 at BPIT (23rd Oct).
- **Arush Kamath (3rd Sem, IT-A):** 1st place in Hedera Hello Future Hackathon (Remote, 3rd Oct, ₹11,000).
- **Yash Raj (3rd Sem, IT-C):** 1st place in Onchain Summer Buildathon (1st Jul, ₹9,500).
- **Atul Kumar Singh (5th Sem, IT-B):** 2nd place in Reckon 5.0 at JIET Jodhpur (17th Feb, ₹500); Participated in Hackaracks at BPIT (30th Sep); 2nd place in Mind Installers Hackathon 2.0 at IIMT Greater Noida (24th Apr, ₹8,000).
- **Akash Kumar (3rd Sem, IT-B):** Cleared round 1 of SIH Internal Round (12th Sep).
- **Ishita Singh (3rd Sem, IT-A):** Presented poster on Semiconductors & Quantum Physics at BPIT (6th Mar); Organized TechXplore 3.0 (14th-26th Oct).
- **Krish Mishra (3rd Sem, IT-A):** Cleared round 1 of SIH Internal Round (12th Sep).
- **Ayushi Aggarwal (3rd Sem, IT-C):** Cleared round 1 of SIH Internal Round (12th Sep).

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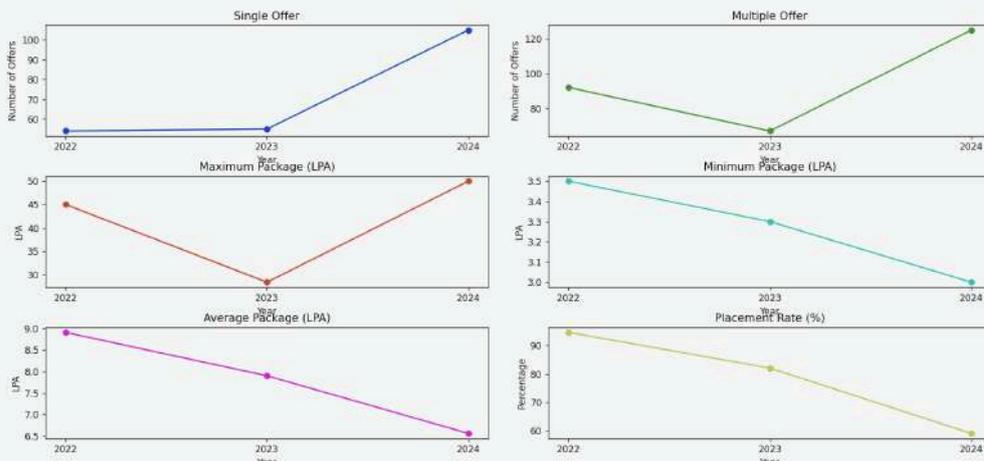


# PLACEMENT RECORD SUMMARY

YEAR	2022	2023	2024
SINGLE OFFER	54	55	105
MULTIPLE OFFER	92	67	125
MAXIMUM PACKAGE	45 LPA	28.36 LPA	50 LPA
MINIMUM PACKAGE	3.5 LPA	3.36 LPA	3 LPA
AVERAGE PACKAGE	8.91 LPA	7.9 LPA	6.56 LPA
ELIGIBLE STUDENTS	57	67	178
% OF STUDENTS PLACED OUT OF ELIGIBLE STUDENTS	94.74%	82.09%	58.99%



Placement Statistics Over Years



# Our Faculty



**PROF. (DR.) ABHISHEK SWAROOP**  
HOD



**PROF. (DR.) MANOJ KUMAR GUPTA**  
EXAMINATION HEAD



**DR. RACHNA JAIN ASSOCIATE**  
PROFESSOR & ADDITIONAL HEAD



**MR. C.M. SHARMA**  
ASSISTANT PROFESSOR



**DR. VARSHA SHARMA**  
ASSISTANT PROFESSOR



**DR. MADHUR JAIN**  
ASSISTANT PROFESSOR



**DR. SHAILENDRA SINGH GAUR**  
ASSISTANT PROFESSOR



**DR. RITU GUPTA**  
ASSISTANT PROFESSOR



**DR. POOJA MUDGIL**  
ASSISTANT PROFESSOR



**MS. ANUSHA CHHABRA**  
ASSISTANT PROFESSOR



**DR. AMAN DUREJA**  
ASSISTANT PROFESSOR



**MS. POOJA SAPRA**  
ASSISTANT PROFESSOR



**MS. MEENAKSHI AGGARWAL**  
ASSISTANT PROFESSOR



**MS. SABNAM KUMARI**  
ASSISTANT PROFESSOR



**MS. PRIYA PANCHAL**  
ASSISTANT PROFESSOR



**MS. PRIYANKA SINGLA**  
ASSISTANT PROFESSOR

## Our Patrons

*Shri Vinod Vats (Chairman)*

*Prof. Payal Pahwa (Principal)*

*Prof. (Dr.) Abhishek Swaroop (HOD IT)*

## Faculty Facilitator

*Dr. Varsha Sharma (Assistant professor)*

## Student Coordinator

*Karan Joshi (3rd Year IT)*

*Mani Tyagi (3rd Year IT)*