

Message from HOD



I congratulate all involved for publication of newsletter. It is a matter of great pleasure and I would like to share few of my thoughts as the Head of Department of Computer Science and Engineering, which was established in 1994. Since then the department is flourishing and achieving new heights. We are offering undergraduate program – B.Tech. in Computer Science and Engineering, and post-graduate program – M.Tech. in Computer Science and Engineering. Department also have Ph.D. program running under autonomous status. We are also actively involved in research and development activities. Our faculty members have published their research work in various reputed journals with good impact factors and carrying out research in diverse fields of Computer Science and Engineering. Students of department are also bringing laurel to the institute by participating in various curricular and extra-curricular activities from time-to-time at national and international levels. Department is supporting students in all domains for their overall personality development and organizing different events through societies and clubs managed by department including Computer Society of India and Data Science Club.

Dr. Kiran Jyoti, Head of Department, Computer Science and Engineering

Department at Glimpse

Department of Computer Science and Engineering is established in year 1997. Department is offering B.Tech., M.Tech. programs and Ph.D (under Autonomous status) in Computer Science and Engineering. Laboratories of the department are equipped with state of the art infrastructure

to cater course work and research activities. A Good number of books is available in departmental library for prompt access to students and faculty members. Under academic autonomy, study schemes of the offered programs are updated regularly focusing outcome based education, to make students employable as per national and international requirements. Graduates of the department are serving around the globe in eminent companies, academia, as well as in public sector. They are bringing laurel to the department by excelling in fields of their work. Every year a good number of students are clearing different competitive exams.

Student Coordinators

- Kajal Chugh (2303225)
- Jaideep Randhava (2203463)
- Ekushpreet Singh (2104160)
- Tejas Joshi (2215203)

Student Achievements

- Vrishti Gupta URN: 1905064, student of 2019-2023 Batch got placed at a highest package of 19.5 Lakh per Annum in PhonePe, May 2023.
- Ekuspreet Singh, Dhruv Kumar, Harsimran Singh, Devesh Sharma, Archie Maggu students of CSE got 2nd prize at National Level Smart Hackathon, organized at Shaheed Bhagat Singh State University Technical Campus, Ferozepur. Feb-2023

CSE Students awarded with the Best Project

Sr. No	URN	Student Name	Project Title	Session
1	1905052 1905789 1905821	Simran Singh Harcharan Singh Saksham Sharma	Automated Voice Controlled Car	Jan-June,2023
2	1905787 1905802	Gurkirat Singh Mandeep Singh	Development of Portable IoT based Heart Monitoring System	Jan-June,2023

3	1905774	Akshat Gupta	Text wise	Jan-June,2023
	1905795	Jahnvi Singh		
	1905818	Rishab Mehndiratta		
4	1905005	Jasjit Kaur	Administrator Report System for Moodle	Jan-June,2023
	1905014	Komalpreet Kaur		

Gate Cleared Students

S.No.	Name of Student	Reg. No.	Year
1	RAGHAV SHARMA	CS23S18023005	March, 2023
2	HARDEV	CS23S18023041	March, 2023

Students of CSE Department has successfully cleared various NPTEL

MOOC's courses

Sr.No.	Name	U.R. No.	Course Name	Year
1	Harsh Verma	2004586	Data Analytics with Python	Jan-Apr, 2023
2	Saurav Sharma	2004662	Data Analytics with Python	Jan-Apr, 2023
3	Vivek Thakur	2004687	Data Analytics with Python	Jan-Apr, 2023
4	Yakshi Puri	2004688	Cloud Computing	Jan-Apr, 2023
5	Naman Marria	1905807	Model Checking	Jan-Apr, 2023

Sr.No.	Name	U.R. No.	Course Name	Year
6	Naman Marria	1905807	Privacy and Security in Online Social Media	Jan-Apr, 2023
7	Jaskamal Singh	1905006	Rural Water Resources Management	Jan-Apr, 2023
8	Jaskamal Singh	1905006	Introduction to Embedded System Design	Jan-Apr, 2023

Students of CSE bagged various positions in Sports

S.No.	Name	URN	Achievements
1	Arpit Singh	2004548	Member college Swimming Team: 1st in PTU
2	Keshav Hari Nanda	2104135	Member college Basketball Team: 1st in PTU
3	Inderpreet Singh	2104118	Member college Basketball Team: 1st in PTU
4	Saumya Dhingra	2302667	Member college Basketball Team: 1st in PTU
5	Ridhamjeet Kaur	2203589	Member college Handball Team: 1st in PTU
6	Simranjeet Kaur	2203596	Member college Handball Team: 1st in PTU
7	Roshni	2203593	Member college Handball Team: 1st in PTU
8	Saumya Dhingra	2302667	Member college Handball Team: 2nd in PTU
9	Aditya Kumar	2104057	Member college Handball Team: 2nd in PTU
10	Robin Rawat	2104170	Member college Handball Team: 2nd in PTU
11	Jasnoor Kaur	2104128	Member college Athletics Team: 2nd in PTU
12	Aditya Kumar	2104057	Member college Athletics Team: 2nd in PTU

S.No.	Name	URN	Achievements
13	Simranjeet Kaur	2203596	Member college Athletics Team: 2nd in PTU

Faculty Achievements

- **Dr. Parminder Singh**, Professor(CSE), appointed as **Expert on the Faculty of Computer Sciences** for the term from 11.01.2023 to 10.01.2025 by Punjabi University, Patiala.
- **Dr. Parminder Singh**, Professor(CSE), appointed as **Member, Board of Studies (Computer Sc. & Engg.)**, Shaheed Bhagat Singh State University, Ferozepur [Jan,2022-Jan,2025]
- **Dr. Sita Rani**, Assistant Professor (CSE), conferred with **Exceptional Women of Excellence** Award by Women’s Indian Chamber of Commerce and Industry [March, 2023].
- **Dr. Sita Rani**, Assistant Professor (CSE), awarded with **10 Design Patents** with a total of 15.

Conference Chaired Sessions

- **Dr. Kiran Jyoti**, H.O.D.(CSE), Chaired session in the **7th International Joint Conference on Computing Sciences (ICCS-2023) "KILBY100"**, School of Computer Science and Engineering, Lovely Professional University, Punjab [May, 2023].
- **Dr. Parminder Singh**, Professor(CSE), Chaired session during “**International Conference on Network, Intelligence and Computing (ICONIC-2023)**”, School of Computer Application, Lovely Professional University, Punjab [April, 2023].

Faculty Research Publications

- [**Diana Nagpal**, Shikha Gupta, Deepak Kumar, Zoltan Illes, Chaman Verma, Barnali Dey (2023,June). GoldenAGER: A Personalized Feature Fusion Activity Recognition Model for Elderly. IEEE Access.]

- [Harmehak Singh Khangura, Jasleen Kaur, Gurleen Kaur, **Parminder Singh** (2023, May). Human Computer Interaction: Technologies and Challenges. Journal of Emerging Technologies and Innovative Research (JETIR).]
- [Prince Verma, **Kiran Jyoti**, Nirmaljeet Kaur, Varsha, Shruti (2023, May). Synthesized Deep Learning Model in Chatbot Feature Learning. European Chemical Bulletin.]
- [**Priyanka Arora, Parminder Singh**, Akshay Girdhar, Rajesh Vijayvergiya (2023, April). A State-Of-The-Art Review on Coronary Artery Border Segmentation Algorithms for Intravascular Ultrasound (IVUS) Images. Cardiovascular Engineering and Technology.]
- [**Priyanka Arora, Parminder Singh**, Akshay Girdhar, Rajesh Vijayvergiya (2023, April). Calcification Detection in Intravascular Ultrasound (IVUS) Images Using Transfer Learning Based MultiSVM model. Ultrasonic Imaging.]
- [**Priyanka Arora, Parminder Singh**, Akshay Girdhar, Rajesh Vijayvergiya, Prince Chaudhary (2023, April). CADNet: an advanced architecture for automatic detection of coronary artery calcification and shadow border in intravascular ultrasound (IVUS) images. Physical and Engineering Sciences in Medicine.]
- [Prince Verma, **Kiran Jyoti**, Varsha Sahni, S.Jafar Ali Ibrahim, N.S. Kalyan Chakravarthy (2023, April). Synthesized feature learning model on news aggregator for chatbot. Soft Computing.]
- [Navdeep Kaur, **Parminder Singh** (2023, March). Modeling of Speech Parameters of Punjabi by Pre-Trained Deep Neural Network using Stacked Denoising Autoencoders. ACM Transactions on Asian and Low-Resource Language Information Processing.]
- [**Kamaldeep Kaur, Parminder Singh** (2023, February). Trends in speech emotion recognition: a comprehensive survey. Multimedia Tools and Applications.]
- [Vikram Bali, Shivani Bali, Dev Gaur, **Sita Rani**, Raman Kumar (2023, February). Commercial-Off-The Shelf Vendor Selection: A Multi-Criteria Decision-Making Approach Using Intuitionistic Fuzzy Sets and Topsis. Journal Of Operational Research in Engineering Science: Theory and Applications.]

Student-Faculty Conference Publications

Sr. No.	Title of Paper	Name of Authors	Name of Journal/ Conference	Level	Year
1	Virtual Channel Attack by Hardware Trojan in NoC-based TCMP and its Impact Analysis	Abhishek Rana, Amandeep Kaur Sohal	2023 Third International Conference on Secure Cyber Computing and Communication (ICSCCC) IEEE	International	May-2023
2	Study on deep learning model-based CHATBOTs	Prince Verma , Kiran Jyoti , Muhammed Junaid	7th International Joint Conference on Computing Sciences (ICCS-2023)	International	May-2023
3	Human Activity Recognition and Prediction: Overview and Research Gaps	Diana Nagpal, Shikha Gupta	8th International Conference for Convergence in Technology IEEE	International	April-2023
4	Evolution from Handcrafted to Learned Representation Methods for Vision-based Activity Recognition	Diana Nagpal, Shikha Gupta	3rd International Conference on Soft Computing for Security Applications ICSCS 2023 (Springer)	International	April-2023

Sr. No.	Title of Paper	Name of Authors	Name of Journal/ Conference	Level	Year
5	Optimization of a Consensus Protocol in Blockchain-IoT Convergence	Manpreet Kaur, Shikha Gupta	International Conference on Emerging Smart Computing and Informatics (ESCI)	International	March-2023
6	Blockchain technology: An overview with notable features and challenges	Manpreet Kaur, Shikha Gupta	International Conference on Artificial Intelligence, Blockchain, Computing and Security (ICABCS-2023)	International	Feb,2023
7	Quantum Machine Learning in Healthcare: Developments and Challenges	Sita Rani, Piyush Kumar Pareek, Jaskiran Kaur, Meetali Chauhan, Pankaj Bhambri	IEEE International Conference on Integrated Circuits and Communication Systems	International	Feb-2023

Events Attended (FDPs / Conferences / STCs /SDTs / Workshops / Webinars / Seminars / Training Program etc.)

Sr. No.	Name of Event	Faculty Coordinator	Duration	Date(s)	Organizer(s)
1	STTP on An interactive dialogue on governance leadership & management	Dr. Kiran Jyoti	Three days	27th April, 2023 - 29th April, 2023	Department, Govt. of Telangana and Jawaharlal Nehru Technological University (JNTUH), Hyderabad.
2	STTP on Capacity development program for college principals	Dr. Kiran Jyoti	Three days	27th April, 2023 - 29th April, 2023	Institute for Academic Excellence (IAE), Hyderabad in collaboration with Collegiate Education & Technical Education
3	FDP on Role of Technical Institutions in Rural Infrastructure Development	Jasdeep Kaur	Five days	24th April, 2023 - 28th April, 2023	NITTTR, Chandigarh
4	FDP on Cyber Security	Dr. Sita Rani	Five days	20th February, 2023 - 24th February,	IIT Kanpur

Sr. No.	Name of Event	Faculty Coordinator	Duration	Date(s)	Organizer(s)
				2023	
5	FDP on Technology Enabled Teaching Learning	Dr.Inderjit Singh	Five days	16th January, 2023 - 20th January, 2023	NITTTR, Chandigarh AICTE and GNDEC, Ludhiana

Main Recruiters for CSE Students

Sr. No.	Name of Company
1	Microsoft
2	Accenture
3	Walmart Global Technology Services India
4	Cognizant
5	HCL Technologies Ltd.
6	Infosys Limited
7	TCS
8	WIPRO Limited Om Careers
9	Amazon
10	PhonePe
11	Samsung
12	Zomato

Sr. No.	Name of Company
13	TATRAS Data Services Pvt. Ltd.
14	Nagaro
15	ASG Technologies Pvt. Ltd.
16	Yatra Online Freight Services Pvt. Ltd.
17	Om Careers
18	Argusoft
19	ZS
20	Josh Technology Group

Activities/Events conducted by Department of Computer Science and Engineering under various Societies/Clubs

Data Science Club

Name of Event	Event Type	Date
International Webinar on “Artificial Intelligence with Business Analytics”	Webinar	14/04/2023