

## 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**

- Tawanjot Singh URN: 1905057, student of CSE got placed in Airbus Group India Private Limited, Bangalore, at a package of 10 LPA, July-2023.
- Jobanpreet Singh (2004603), Kunwar Chetan Singh (2004826), Raunak Raj (2004976) students CSE got placed placed in Stylumia Intelligence Technologies, Bangalore at an annual package of 13 LPA, Oct-2023.

### **CSE Students awarded with the Best Project**

<b>Sr. No</b>	<b>URN</b>	<b>Student Name</b>	<b>Project Title</b>	<b>Session</b>
1	2004621 2104230 2004688	Manjot Kaur Sarbjeeet Kaur Yakshi Puri	Smart waste segregation system	July-Dec,2023
2	2104218 2104222 2104224	Amanpreet Kaur Gurneet Kaur Jaspreet Kaur	Smart Wi-Fi Door Lock System with Camera	July-Dec,2023

3	2004617	Lakshay Jain	Speaker Diarization	July-Dec,2023
	2004629	Naman Goyal		
	2004669	Smily Garg		
4	2004634	Pankaj Jangid	GestureWheel	July-Dec,2023
	2004652	Rohan		
	2004657	Sahil Sharma		

### Students of CSE bagged various positions in Youth Festival

S.No.	Name	URN	Name of Event	Level
1	Avaluday Singh	2004554	Bhangra (1st Position), Central Zonal Youth Festival Nov-2023	Zonal
2	Ravneet Singh	2004554	Bhangra (1st Position), Central Zonal Youth Festival 2023	Zonal
3	Kushali Sharma	2203487	Theatre (1st Position), Central Zonal Youth Festival 2023	Zonal
4	Karthik	2104134	Music (1st Position), Central Zonal Youth Festival 2023	Zonal
5	Ravneet Singh Virk	2004649	Music (1st Position), Central Zonal Youth Festival 2023	Zonal
6	Vansh Khanna	2004683	Music (1st Position), Central Zonal Youth Festival 2023	Zonal
7	Rhythm Kamra	2203540	Music (2nd Position), Central Zonal Youth Festival 2023	Zonal
8	Riya Sharma	2302652	Music (2nd Position), Central Zonal Youth Festival 2023	Zonal
9	Harsimran Singh	2104117	Literary (1st Position), Central Zonal Youth Festival 2023	Zonal

<b>S.No.</b>	<b>Name</b>	<b>URN</b>	<b>Name of Event</b>	<b>Level</b>
	Jaagi		Youth Festival 2023	
10	Ekuspreet Singh	2104097	Literary (1st Position), Central Zonal Youth Festival 2023	Zonal
11	Anhad Kaur	2302469	Gidha (1st Position), Central Zonal Youth Festival 2023	Zonal
12	Gurleen Kaur	2302527	Gidha (1st Position), Central Zonal Youth Festival 2023	Zonal
13	Husanpreet Kaur	2004588	Gidha (1st Position), Central Zonal Youth Festival 2023	Zonal
14	Taranpreet Kaur	2004678	Gidha (1st Position), Central Zonal Youth Festival 2023	Zonal
15	Nidhi	2004630	Gidha (1st Position), Central Zonal Youth Festival 2023	Zonal
16	Muskandeep Kaur	2303506	Gidha (1st Position), Central Zonal Youth Festival 2023	Zonal
17	Simrandeep Kaur	2302683	Gidha (1st Position), Central Zonal Youth Festival 2023	Zonal
18	Ekuspreet Singh	2104097	Literary (1st Position), Central Zonal Youth Festival 2023	Zonal
19	Diya Baweja	2203425	Collage Making (1st Position), Central Zonal Youth Festival 2023	Zonal
20	Ravneet Kaur	2302916	Poster Making (2nd Position), Central Zonal Youth Festival 2023	Zonal
21	Tanveer Singh	2104959	On Spot Painting (1st Position),	Zonal

S.No.	Name	URN	Name of Event	Level
	Reehal		Central Zonal Youth Festival 2023	
22	Manpreet Kaur	2303020	Mehndi (2nd Position), Central Zonal Youth Festival 2023	Zonal
23	Avaluday Singh	2004554	Bhangra (3rd Position), Inter Univeristy Youth Festival Nov-2023	Inter-University
24	Ravneet Singh	2303176	Bhangra (3rd Position), Inter Univeristy Youth Festival 2023	Inter-University

### Faculty Achievements

- **Dr. Parminder Singh**, Professor(CSE), awarded as “**ISTE Section Best Teacher Award 2023**” at ISTE Section Convention hosted by Bhai Gurdas Institute of Engineering and Technology, Sangrur, Punjab [Nov,2023].
- **Dr. Amit Jain**, Assistant Professor(CSE), awarded as **ISTE Best Teacher Award 2023** by Indian Society of Technical Education [Nov,2023].
- **Prof. Kamaldeep Kaur, Prof. Priyanka Arora, Prof. Manpreet Kaur Mand** Completed Ph.D CSE, 2023.

### Faculty Guided Ph.D Candidates

Name of Supervisor	Name of Candidate	Reg. Number	Title	Completed on
Dr. Parminder Singh	Kamaldeep Kaur	1503033	Development of Speech Emotion Recognition System For Punjabi	9.11.2023
Dr. Parminder Singh	Priyanka Arora	1503035	Investigations of Shadows in Intravascular Ultrasound Images	2.11.2023

<b>Name of Supervisor</b>	<b>Name of Candidate</b>	<b>Reg. Number</b>	<b>Title</b>	<b>Completed on</b>
Dr. Parminder Singh	Navdeep Kaur	1603022	Statistical Parametric Approach Based Speech Synthesis For Punjabi	29.8.2023

### **Events organized by CSE Department**

<b>Name of Event</b>	<b>Convenor</b>	<b>Coordinator</b>	<b>Co-coordinator</b>	<b>Date</b>
ATAL Sponsored Six days FDP on Quantum Computing	<b>Dr. Kiran Jyoti</b>	<b>Dr. Parminder Singh</b>	<b>Er. Satinderpal Singh</b>	18th - 23rd Dec, 2023

### **Faculty Research Publications**

- [Diana Nagpal, Shikha Gupta (2023, December). A Novel Transfer Learning based Multi-Feature Fusion Framework for Elderly Activity Recognition. International Journal of Intelligent Systems and Applications in Engineering.]
- [Sita Rani , Sachin Kumar, Aman Kataria, Hong Min (2023, October). SmartHealth: An Intelligent Framework to Secure IoMT Service Applications Using Machine Learning. ICT Express.]
- [Sita Rani, Amit Kumar Mishra, Aman Kataria, Saurav Malik, Hong Quin (2023, September). Machine learning -based optimal crop selection system in smart agriculture. Scientific Reports.]
- [Sita Rani, Aman Kataria, Sachin Kumar, Prayag Tiwari (2023, August). Federated learning for secure IoMT-applications in smart healthcare systems: A comprehensive review. Knowledge Based Systems.]
- [Ubeeka Jain, Parminder Singh (2023, August). Impact of Feature Selection for Emotion Detection from Annotated Punjabi Text. International Journal of Intelligent Systems and Applications in Engineering (IJISAE).]

- [Kamaldeep Kaur, Parminder Singh (2023, August). Comparison of Various Feature Selection Algorithms in Speech Emotion Recognition. AIUB Journal of Science and Engineering (AJSE).]

### Student-Faculty Conference Publications

Sr. No.	Title of Paper	Name of Authors	Name of Journal/ Conference	Level	Year
1	Text Mining for Fine-grained Emotion Detection	Ubeeka Jain, Parminder Singh	Springer International Conference on information systems and management science (ISMS-2023)	International	Dec-2023
2	Blockchain-enabled Transcript System integrated with IPFS	Priyanka Jhamb, Amanjot Singh, Vrishti Gupta, Manpreet Kaur Mand	International Conference on Recent Trends in Advance Computing (ICRTAC)	International	Dec-2023
3	Calcified Tissue Detection using Deep Learning Models in Intravascular Ultrasound images	Priyanka Arora, Parminder Singh and Akshay Girdhar	IEEE International Conference on Advances in Electrical, Electronics and Computational Intelligence (ICAECCI-2023)	International	Oct-2023

<b>Sr. No.</b>	<b>Title of Paper</b>	<b>Name of Authors</b>	<b>Name of Journal/ Conference</b>	<b>Level</b>	<b>Year</b>
4	Performance Comparison of Conventional and Deep Learning Classifiers for Punjabi Dialect Identification	Manjot Kaur Gill, Simpel Rani and Parminder Singh	IEEE International Conference on Self Sustainable Artificial Intelligence Systems)	International	Oct-2023
5	DLT Based Smart Medical Ecosystem	Vikram Puri, Aman Kataria, Sita Rani, Piyush Kumar Pareek	IEEE International Conference on Network, Multimedia and Information Technology (NMITCON)	International	Oct-2023
6	Human Activity Classification using G-XGB	Aman Kataria, Vikram Puri, Piyush Kumar Pareek, Sita Rani	IEEE International Conference on Data Science and Network Security (ICDSNS)	International	July-2023

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

<b>Sr. No.</b>	<b>Name of Event</b>	<b>Faculty Coordinator</b>	<b>Duration</b>	<b>Date(s)</b>	<b>Organizer(s)</b>
1	FDP on Quantum Computing	Dr. Amandeep Kaur Sohal	Six Days	18th December,	AICTE and ATAL



<b>Sr. No.</b>	<b>Name of Event</b>	<b>Faculty Coordinator</b>	<b>Duration</b>	<b>Date(s)</b>	<b>Organizer(s)</b>
				2023 - 23rd December, 2023	Academy and GNDEC, Ludhiana
2	FDP on Quantum Computing	Dr. Vivek Thapar	Six Days	18th December, 2023 - 23rd December, 2023	AICTE and ATAL Academy and GNDEC, Ludhiana
3	FDP on Quantum Computing	Dr. Kamaldeep Kaur	Six Days	18th December, 2023 - 23rd December, 2023	AICTE and ATAL Academy and GNDEC, Ludhiana
4	FDP on Quantum Computing	Kiran Jyoti	Six Days	18th December, 2023 - 23rd December, 2023	AICTE and ATAL Academy and GNDEC, Ludhiana
5	FDP on Quantum Computing	Dr. Sita Rani	Six Days	18th December, 2023 - 23rd December, 2023	AICTE and ATAL Academy and GNDEC, Ludhiana
6	Workshop on NIRF India Ranking 2024	Dr. Sita Rani	Two Days	13th December, 2023 - 14th	Institute of Academic Excellence,

<b>Sr. No.</b>	<b>Name of Event</b>	<b>Faculty Coordinator</b>	<b>Duration</b>	<b>Date(s)</b>	<b>Organizer(s)</b>
				December, 2023	Hyderabad
7	FDP on NSQF Aligned Curriculum Design and Implementation	Dr. Amandeep Kaur Sohal	Five Days	18th September, 2023 - 22nd September, 2023	Curriculum Development Centre Department
8	STC on Artificial Intelligence for Next Generation IoT Networks	Dr. Amandeep Kaur Sohal	Five Days	11th September, 2023 - 15th September, 2023	NIT Jalandhar
9	Workshop on Communication Skills	Dr. Manpreet Kaur Mand	One Day	7th August, 2023 - 7th August, 2023	GNDEC, Ludhiana
10	Workshop on Communication Skills	Harkomalpreet Kaur	One Day	7th August, 2023 - 7th August, 2023	GNDEC, Ludhiana
11	FDP on Python for Data Science	Kuljit Kaur	One Month	1st July, 2023 - 1st August, 2023	NPTEL-AICTE

## Main Recruiters for CSE Students

<b>Sr. No.</b>	<b>Name of Company</b>
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
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**

**Computer Society of India**

<b>Name of Event</b>	<b>Event Type</b>	<b>Date</b>
Blockchain and Web3 Technologies	Expert Talk	18-Sep-23

**Data Science Club**

<b>Sr. No.</b>	<b>Name of Event</b>	<b>Event Type</b>	<b>Date</b>
1	PUZZEL PARCEL GNE'S APEX 2023	Activity	20/10/2023
2	BRAINIAC BATTLE GNE'S APEX 2023	Activity	20/10/2023
3	Smart Prompts	Activity	21/09/2023