



**Sri Guru Teg Bahadur Khalsa College  
Sri Anandpur Sahib Punjab**



**PG Department of Computer Science  
in collaboration with  
Institution's Innovation Council  
organized a Guest Lecture on  
*Introduction to Context-Free Languages using Push Down Automata*  
on 18<sup>th</sup> September 2025  
(Under DBT Star Status)**

The P.G. Department of Computer Science, Sri Guru Teg Bahadur Khalsa College, Sri Anandpur Sahib in collaboration with the Institution's Innovation Council organized a guest lecture on the topic "*Introduction to Context-Free Languages using Push Down Automata*" on 18th September 2025. The session was conducted in online mode under the *DBT Star Status, Government of India*.

The lecture was attended by students of BCA final Semester and BSc(H)AI & DS 3rd Sem. The event was graced by the presence of Dr. Mandeep Kaur, Assistant Professor, Department of Computer Science and Engineering, Chitkara University, as the expert speaker.

During her session, Dr. Mandeep Kaur shared detailed insights into the concept of Context-Free Languages and their implementation through Push Down Automata (PDA). The session highlighted the importance of formal language theory in computer science and its applications in areas such as compiler design and parsing techniques. The lecture helped students strengthen their understanding of theoretical computer science and encouraged them to explore deeper aspects of automata theory.

Dr. Jasvir Singh, Principal of the college, appreciated the efforts of the Department of Computer Science in organizing such an academically enriching lecture. He motivated the students to actively engage in such knowledge-sharing sessions to enhance both their conceptual clarity and research aptitude.

The event was successfully organized under the guidance of Dr. Surender Kumar, Head of the P.G. Department of Computer Science, who emphasized the role of theoretical foundations like automata in building strong computational and analytical skills.

The session was hosted by Dr. Amanpreet Kaur, who ensured the smooth flow of the program. The lecture was efficiently coordinated by Prof. Tajinder Kaur, Prof. Paramjit Kaur, Dr. Amanpreet Kaur, Prof. Ashima, and Prof. Sukhleen Kaur, whose dedicated efforts contributed to the success of the event.

Link before the event:

<https://www.instagram.com/p/DOtXM4TEkBQ/?igsh=MWYxZ2F0MHdtY3N4Mg==>

Link after the event: <https://www.facebook.com/share/1FVtc97iJJ/?mibextid=wwXlfr>



इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी मंत्रालय  
MINISTRY OF  
ELECTRONICS AND  
INFORMATION TECHNOLOGY

**Sri Guru Teg Bahadur Khalsa College  
Sri Anandpur Sahib Punjab  
(An Autonomous College)**



INSTITUTION'S  
INNOVATION  
COUNCIL

**Guest Lecture  
on  
Introduction to Context-Free Languages  
using Push Down Automata  
(Under DBT Star Status)**



RESOURCE PERSON

Dr. Mandeep Kaur  
Assistant Professor

Dept. of CSE, Chitkara University

Organized by  
P.G. Department of Computer Science  
Sri Guru Teg Bahadur Khalsa College,  
Sri Anandpur Sahib



18th Sept, 2025  
at 11:30 AM  
(Online mode)

Asst.Prof. Tajinder Kaur  
Coordinator  
Computer Department

Dr. Surender Kumar  
Head  
Computer Department

Dr. Jasvir Singh  
Principal



