



**DEV BHOOMI**  
—UTTARAKHAND—  
**UNIVERSITY**

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# NEXGEN

NEWSLETTER

SCHOOL OF  
ENGINEERING AND COMPUTING

**Student Editorial Team:**

- 1) Sujay Kumar
- 2) Rishabh Tyagi
- 3) Satyam
- 4) Khushi Aggarwal
- 5) Arihant

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**Ms. Urvashi Rawat**

**Mr. Mukesh Rajput**



**Dr. Ritika Mehra**  
Dean SoEC

## Message from **Editor in Chief**

Dear Readers,

“I am thrilled the recent release issue of our newsletter NEXGEN, showcasing the remarkable achievements and progress of School of Engineering & Computing. “Coming together is a beginning and keeping together is progress” with this motto we would like to exhibit the remarkable accomplishments of the SoEC. I am proud of our faculty, who tirelessly contribute to the academic excellence and research advancements of our school. Their unwavering commitment to providing an excellent platform for our students to thrive and achieve their potential is commendable. I encourage all our faculty, students, and readers to continue to embrace a spirit of enthusiasm, curiosity, and lifelong learning. Together, we can continue to elevate the reputation and success of our SoEC. Thanks to my team for unwavering support, and I look forward to witnessing more achievements and progress in our future issues of NEXGEN.”

In this issue of NEXGEN, the newsletter of School of Engineering & Computing. We are delighted to present to you the index of this edition, which provides a quick overview of the exciting content you can look forward to in this publication.

Message from the Chancellor

Message from the Pro-Chancellor

Message from the Vice Chancellor

Events and Activities - Stay informed about the latest events, workshops, seminars, and activities organized by the SoEC.

Research Highlights - Learn about the cutting-edge research publication- Journals, conferences, patents, book Chapters.

Industry Visits - Get updates on the industry visits to various sectors .

We hope you find the content in this issue of NEXGEN informative, engaging, and inspiring. Thank you for your continued support, and we look forward to sharing more exciting updates from our School in the future.

Placement Spotlight - Discover the outstanding achievements and placement of our students in various software industries.

Student Corner - Be inspired by the articles written by our students who have excelled in their academic pursuits and worked in advancement of technologies and Rust.



**Mr. Sanjay Bansal**  
Chancellor, DBUU

## Message from **Chancellor**

“This gives me immense pleasure to announce the release of latest edition of NEXGEN. The latest issue of NEXGEN is a true testament to the incredible efforts, talent, and dedication of School of Engineering & Computing. The meticulous research, thoughtful content curation, and engaging presentation truly highlights the outstanding achievements and advancements of SOEC in the areas of research, industrial visits, and other academic activities. Hope editorial team will continue to showcase the outstanding contributions of Engineering & computing.”

## Message from **Pro-Chancellor**

“NEXGEN always brings a joy of smile and pride whenever I read their new edition from the editorial team and exceptional efforts. This publication is committed to foster a culture of academic excellence, research innovation, and holistic growth. I am sure that future issues of NEXGEN will continued to give insights on the outstanding work of our faculty, students, and staff in various areas, including research breakthroughs, industry collaborations, and noteworthy activities.”



**Mr. Aman Bansal**  
Pro-Chancellor, DBUU

## Message from **Vice-Chancellor**

“Things work out best for those who make the best of how things workout” With this I would like to congratulate Dr. Ritika Mehra and her editorial team of NEXGEN for their tireless efforts to bring out an informative and captivating publication that showcases the achievements of Engineering & Computing community. I am immensely proud that our faculties and students are dedicated to delivering high-quality education and engaging in cutting-edge research that pushes the boundaries of knowledge. Our students, the future leaders of tomorrow, have also shown exceptional talent, creativity, and resilience in pursuing their academic and personal goals. I am confident that the SoEC will continue to strive for excellence in all its endeavors, and NEXGEN will continue to serve as a platform to celebrate and highlight achievements of the school.”



**Prof. (Dr.) Preeti Kothiyal**  
Vice-Chancellor, DBUU



# Events & Activities

## CSE Alumni Reconnect Event

Department of Computer Science and Engineering has organized an engaging Alumni Reconnect event on Salesforce and Data analytics with Data Science for B.Tech CSE 3rd year and 4th Year students on 15 Feb, 2023 by Mr. Neeraj Rawat, Director Relevation AI, Noida. This interactive session with the students has boosted their morale and strength. Mr. Neeraj shared his experiences as aspiring professionals, their work experience, the challenges they faced in their professional endeavors and the knack with which they dealt with these hurdles.



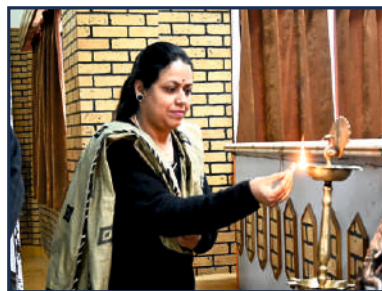
## Seminar on Best Cyber Hygiene Practices



Department of Computer Science and Engineering has organized a seminar on Best Cyber Hygiene Practices for B.Tech First year and BCA First Year students by Mr. Ankush Mishra, Deputy SP, Special Task Force on 22<sup>nd</sup> Feb 2022 for valuable insights on cyber threats and keep alert against crime.

## Microsoft Power BI under Women Empowerment program under ICT Academy

Department of Computer Science and Engineering has organized an engaging Alumni Reconnect event on Salesforce and Data analytics with Data Science for B.Tech CSE 3rd year and 4th Year students on 15 Feb, 2023 by Mr. Neeraj Rawat, Director Relevation AI, Noida. This interactive session with the students has boosted their morale and strength. Mr. Neeraj shared his experiences as aspiring professionals, their work experience, the challenges they faced in their professional endeavors, and the knack with which they dealt with these hurdles.



## State Level Workshop on Microsoft Excel and Google Sheet



Department of Computer Science and Engineering had hosted a four days state level Workshop ( 21 - 24 Feb 2023) on Microsoft Excel and Google Sheet with the aim of providing student with exposure and training under the guidance of highly skilled industry expert Er. RVS Chauhan, Director of IT at IEI, Uttarakhand State Centre.



## Webinar on Careers in Cyber Security

Webinar was organized by department of computer science and Engineering on Careers in Cyber Security presented by Ms. Pooja Joshi, Regional Manager Academia , EC Council on 14 March 2023. Webinar was aimed at exposing students to career opportunities in cyber security.



## Seminar on E-latest Cyber crimes



Seminar was organized on E-latest cyber crimes (ATM Frauds, ATM card Cloning, mail Spoofing etc) by Mr Rahul Misra, Innovative Ideas Infotech (Cyber Security Advisor UP Police) on 14 March 2023 followed by full day Hands-on Workshop on 15 March 2023. The objective was to spread cyber awareness amongst students in order to promote cyber awareness to eradicate cyber crime.

## Seminar on "Technology Leverages Career for Future Prospects"

CSE department organized a seminar (31st March 2023) on "Technology Leverages Career for Future Prospects." By Mr. Alok Tomar, Chief Advisor, Uttarakhand Information Technology Department for B.Tech CSE and MCA Pre final year students. This seminar provided students with exposure to various technologies and career prospects. It was an excellent opportunity to gain awareness about new technologies and learn more about potential future careers.





## LAKSHAGRIHA HACKATHON 2.0

LAKSHAGRIHA HACKATHON 2.0 was organized on 31 March 2023 and 1 April 2023 which encourages creativity and critical thinking. Hackathon created an atmosphere of competitive coding in the University that boosted the coding skills of the students as well as innovative thinking. From countless lines of codes to a victorious finish, it's been an epic journey for the participants of Lakshagraha Hackathon 2.0, with more than 151 students participating as 52 teams. Winners of Lakshagraha Hackathon 2.0:

1. The ACE SQUAD ( Winners)  
Suhail Ahmad- B.Tech IV sem  
Raman Dahiya – B.Tech IV sem  
Manthan Sharma- BCA IV sem  
Manvee- BCA IV sem

2. ASQUARE (1ST Runner up)  
Deepak Chandra Sharma – B.Tech VI sem  
Nikhil Matta – B.Tech VI sem  
Rohit Kala- B.Tech VI sem  
Sashi Ranjan- B.Tech VI sem

3. PIED PIPERS (2nd Runner up)  
Sandeep Singh Banoula- B.Tech VI sem  
Deepak Singh Rautela - B.Tech VI sem  
Vikrem Singh - B.Tech VI sem  
Lokesh Kandpal- B.Tech VI sem



## Seminar at Institution of Engineers on “Digital communication: New trends, Use Cases and Challenges”

Institution of Engineers organized a seminar on Digital communication: New trends, Use Cases and Challenges on 8 Feb 2023. The target audience for this seminar were delegates of all Telecom service providers, Government departments, PSUs, Cellular operator associations, Telecom infra providers, students & faculty members of various Engineering & Management institutes, members of consumer advocacy groups, and the general public. The program Schedule and subject brief of various sessions were delivered by various experts on different topics like 5G technology and Use Cases, AI & ML etc. 22 Students of ECE, EE and 10 students of Mechanical Engineering attended the seminar.



## Patent Filed

1. **Dr. Sangeeta Pant** has filed a patent with title “Title: NLP WORKLOAD OPTIMIZATION USING CONTAINER BASED DEPLOYMENT “with Patent Application Number: 202311007025 A,
2. **Dr. Sangeeta Pant** has filed a patent with “Title: DEEP LEARNING BASED FACE RECOGNITION SYSTEM FOR AUTOMATED IDENTIFICATION, WSN, cloud and Deep learning algorithms with Patent Application Number: 202311007023 A,
3. **Mr. Ashuvendra Singh** grant a design patent on “Automatic relaxing hospital bed” as design no 371367-001

## Research Publication

## BOOK CHAPTERS

Vrinda Tandon, Ritika Mehra, "Study of approaches to predict personality using Artificial intelligence in the digital twins", Neuromorphic Computing (ISBN 978-1-80356-144-8). (Indexed in Web of Science)

## JOURNAL PUBLICATIONS

S.No.	Name	Title	Journal	Status	Year
1.	Dr. Ritika Mehra	Feature Selection Method Based on Honeybee-SMOTE for Medical Data Classification	International Journal of Informatica (Scopus Indexed)	Published	2023
2.	Dr. Ritika Mehra	Predictive Modeling of Stress in the Healthcare Industry During COVID-19: A Novel Approach Using XGBoost, SHAP Values, and Tree Explained.	International Journal of Decision Support System Technology	Published	2023
3.	Mr. Yudhveer S Moudgil	Privacy Preserving Encryption with optimal key generation technique on deduplication for cloud computing environment	IEEE	Published	2023
4.	Mr. Ashuvenda Singh	An Experimental study of changes in performance on retrofitted concrete beams using steel fibers	NeuroQuantology, Scopus Index.	Published	2023
5.	Dr. Bichitra Singh Negi	Parametric Investigation and economic design of slender steel fibre reinforced concrete beams using shear resisting mechanism approach	Structures (SCI)	Published	2023
6.	Dr. Hemant Nautiyal	A review on Aluminium Matrix Composites Synthesized by FSP	Macromolecular Symposia (Scopus)	Published	2023
7.	Dr. Hemant Nautiyal	Influence of sintering temperature on mechanical and tribological characteristics of copper based composite reinforced by 2D hybrid material	Journal of Process Mechanical Engineering (SCI)	Published	2023
8.	Dr. Hemant Nautiyal	Evaluation of Tribological Characteristics for HVOF deposited Ni Based-Self Lubricating Coatings with different h-BN composition Surface & Coatings Technology	Surface & coating Technology (SCI)	Accepted	2023
9.	Mr. Laxman Singh	Application of GIS-based DRASTIC model and its validation with Solute Transport Model in the assessment of groundwater vulnerability index: A case study from coal mining region of India	Wiley	Published	2023

S.No.	Name	Title	Journal	Status	Year
1.	Dr. Sangeeta Pant	Multi-Objective Optimization of Complex Bridge Network by MOPSO-CD	IEEE (Scopus indexed)	Published	2023
2.	Ritika Mehra	Compound Facial Emotion Recognition Based on Facial Action Coding System and SHAP values”, (iCOMPUTER- 2023) conference	International Conference on ICTR 2023 NIT Puducherry	Published	2023
3.	Dr. Maneesh K Singh	Sensitivity Enhancement of Kreschmann Configured Surface Plasmon Resonance Sensor with 2D Nanomaterial : MXene	Springer	Published	2023

# Congratulations

**Dr. Upendra Kumar Verma**, Asst. professor CSE participated in faculty development programme on “Atomistic & Quantum Computing and Simulation (QATK) organized by Electronics and ICT Academy, IIT Roorkee from 16 Jan- 20 Jan 2023.



**Dr. Ritika Mehra**, Dean SoEC was invited to attend Uttarakhand Science Congress as an expert for the session on “Technical Sangam” to discuss the solutions for problems faced by Uttarakhand Natives organised by UCOST.



**Mr. Sachin Sharma**, Asst. Professor CSE presented a paper in College of Computing Science & IT (11th International Conference SMART-2022)



**Ms. Preeti Verma**, Asst. Professor EE has participated in seminar on “Digital Communication : New Trends, Use Cases & Challenges” on 8th Feb, 2023 at Dehradun (Uttarakhand)





Ms. Urvashi Rawat, Ms. Gunjan Bhatnagar, Ms. Avni Sharma, Ms Apoorva Sharma from SoEC Department successfully completed the course on cyber security under Microsoft Cyber Shikshaa for Educators Program held from 3<sup>rd</sup> Jan 2023 to 12<sup>th</sup> Jan 2023.



# Industrial Visits

## Industrial Visit of CSE Students to Institute of Remote Sensing

Industrial Visit to Indian Institute of Remote Sensing (a unit of Indian Space research Organisation) was organized for students of B.Tech 2nd Year student on 5 April 2023. The Selected students were accompanied by CSE faculties Ms. Gunjan Bhatnagar and Dr. Manish Kumar. The students were addressed by Mr. Ravi Bhandari Scientist/Engineer SE, IT Expert to give exposure on different centers of IIRS and its working. Also, students were informed about internship opportunities with IIRS Dehradun followed by visit to the IIRS center, computer Labs, server Rooms and exhibition hall where space related prototypes were displayed.



## Industrial Visit of CSE Students to National Informatic Center

A group of selected B.Tech 2nd year students had an opportunity to visit National Informatic Center on 21 March 2023 with faculty coordinator Mr. Yudhveer S Mudgil. The group of students met with NIC officers Mr. Arun Sharma, Director NIC and Mr. Sanjay Gupta, Director NIC at National Informatic Centre secretariate Dehradun where an exclusive seminar was organised for the students followed by center visit. The student learn about how NIC operates and the various ongoing project with NIC.



## Industrial Visit of ME and ECE students to “QH Talbros”

The Department of Mechanical Engineering and ECE organised an Industrial visit to QH Talbros on 20 March 2023. Mr. Ankur Rana, HR Manager, QH Talbros Private Limited has provided practical exposure to the students and developed understanding of manufacturing process of different automotive parts and other components used in automobile sector. They shared the practical experience of manufacturing process, variety of components, different equipments, machinery and shop floor strategy of company to the ME/EE/EC engineering students.



## Industrial Visit of Civil Engineering Students to “CBRI”

Department of Civil Engineering organized an educational visit to Central Building Research Institute (CBRI) Roorkee, Uttarakhand for B.Tech CE 3rd year and 4th year on 3rd March 2023 accompanied by Mr. Rajat Sindwal and Ms. Shipra Thapliyal, Assistant professor, Civil Engineering. Mr. Ashish Pippal, Scientist CBRI gave exposure to students about the research and innovations in the field of building construction/habitat planning, uses of waste building materials, fire resistance and disaster mitigation in terms of building structures.



## Industrial Visit of Civil Engineering to “Oil and Natural Gas Corporation (ONGC)”

Department of Civil Engineering organized an educational visit to Oil and Natural Gas Corporation (ONGC) Dehradun for B.Tech CE 2nd year and 3rd year students accompanied by Mr. Tushar K Verma faculty of CE on 20th March 2023. Mr. Vinod. K. B, DGM legal Incharge Sabir Raha Oil Museum, ONGC gave exposure to students about the history of oil industry and internal structure of the earth.



## Industrial Visit of CE students to “Uttarakhand Jal Sansthan”

Department of Civil Engineering organised an educational visit to Uttarakhand Jal Sansthan, Rajpur road, Dehradun on 17th February 2023. Mr. Laxman Singh and Mr. Rajat Hindwal accompanied B.Tech 2nd year CE students. Ms. Monika Verma Executive Engineer North Uttarakhand Jal Sansthan gave exposure to the students about the treatment and purification of drinking water in order to plan, promote and execute their schemes on efficient system of water supply.





## Industrial Visit of CE Students to “Sewage Treatment plant (STP)”

Department of Civil Engineering organized an educational visit to Sewage Treatment Plant (STP), Rishikesh, Uttarakhand on 23rd March 2023 under the Government of India's Namami Gange Project. Dr. Bichitra S Negi and Mr. Manish Sharma, faculty of CE accompanied B.Tech 2nd year and 3rd year CE students. Dr. Anju Panwar, enforcement officer, Namami Gange project gave exposure to students about the different components of STP and their functioning. This sewage treatment plant is constructed under the Namami Gange Project which is primarily focused on maintaining the serenity of the holy river Ganga.



## Workshops

### Workshop on Product Design using Auto CAD

On 27 Feb, 2023 the Electronics and communication Engineering and Mechanical Engineering department conducted a workshop on Product design using Auto CAD. The expert trainer for the event was Mr. Rajneesh Rawat, Head CADD Center Craft automation. The aim of the workshop was to deliver hand-on knowledge on basics of product designing and computer aided designing on the software. It developed the basic understanding of product's project management, planning, visual ideation, modelling, prototype, and design in the students.



### Workshop on Overhauling

Department of Mechanical Engineering conducted a workshop on Overhauling by Dr. Farooq Ahmed, Maintenance Engineer, ISBT garage with Dr. Thakur Singh ME faculty on 20 March 2023. Student acquired the knowledge about the overhauling of Engine i.e., Assembly and disassembly of different automotive parts.





## Workshop on “Industrial Automation”

ME Department and Electrical and Communication Engineering department conducted a Workshop on Industrial Automation by Ms. Harsween Kaur, Director, Wonder system, Mohali on 27 March 2023. The students acquired knowledge on basics of automation, different types of automation, various fields and recent advancement in the fields of automation.



## Workshop on “Practice of Mantling and Dismantling of IC Engine”

Department of Mechanical Engineering conducted a one day Hands-on workshop 20 April 2023 on Mantling and Dismantling of IC Engine with Mr. Akshay Katiyar, Mechanical Head, CADD Centre. The parts of IC Engine were disassembled and discussed like spark plug, piston, clutch, gear box etc. Afterwards parts were reassembled again and overhauled to give exposure on working of internal Combustion Engine.



## Workshop on “Field surveying by using Total Station”

Department of Civil Engineering organized a two days hands-on practice on Field surveying by using Total Station from 27th to 28th March 2023. The workshop was conducted by Mr. Vinay Gusain, Head surveyor, Aditya surveying and Engineering. This event was conducted for all the Civil Engineering students in which they learned about the working of Total Station and, they performed the field exercise using Total Station.



## Workshop on “Role of Advanced software in the Design of structures”

Department of Civil Engineering organised an expert Lecture on “Role of Advanced software in the Design of structures” on 2nd March 2023. The lecture was delivered by Mr. Akshay Rawat, CAD/CAM, SLOG Solutions Pvt Ltd expert. The lecture was conducted to explore the advanced software as per industry requirement.



## Workshop on “Automotive design using Solid work”

Department of Mechanical Engineering conducted a three days Workshop on 17-19 April 2023 on Automotive design using solid work with Mr. Akshay Katiyar, Mechanical Head, CADD Centre. The students acquired knowledge on components of the machines and IC Engine using Solid Work. Different views of Engine parts, Assembly and disassembling of automotive parts on Solid Work software was taught.



# PLACEMENT

@ CSE



Meet Our Proud  
**ACHIEVER**



17 Feb 2023



S.No.	Student Name	Branch
1.	Durga	B.Tech CSE
2.	Kajal	B.Tech CSE
3.	Himanshu Upreti	B.Tech CSE
4.	Nishant Chettri	B.Tech CSE
5.	Shivang Bahuguna	B.Tech CSE
6.	Prakhar Pandey	B.Tech CSE



25 Feb 2023



S.No.	Student Name	Branch
1.	Chirag Garg	B.Tech CSE
2.	Aditya Raj	MCA
3.	Alok Raj	MCA
4.	Robins Kr. Chauhan	MCA
5.	Aditya Raturi	Poly(Civil)
6.	Rahul Phondani	Poly(Civil)
7.	Shivanand	Poly(Civil)
8.	Ankita Upreti	Poly(Civil)
9.	Jitendra Sah	Poly(Civil)



25 Feb 2023



S.No.	Student Name	Branch
1.	Satyam Kumar Gautam	B.Tech Civil

## PROGRAM COORDINATOR / HEAD

1. Mr. Govind Singh Panwar (PC)
2. Ms. Urvashi Rawat (PC)
3. Mr. Rakesh Arya (PC)
4. Dr. Hemant Nautiyal (HoD)
5. Dr. Pravesh Belwal (HoD)
6. Mr. Ashuvendra Singh (PC)
7. Mr. Rohit Dobriyal (PC)

- CSE Dept.  
CA Dept.  
MCA/M.Tech.  
ME Dept.  
ECE/EE Dept.  
CE Dept.  
B.Tech 1<sup>st</sup> Year

The world of technology is constantly evolving, and new advancements are being made every day. In this article, I will be discussing some of the latest technologies that are making waves in the industry.

## Artificial Intelligence

AI is undoubtedly one of the most exciting technologies of our time. It has the potential to revolutionize the way we work, live and interact with the world around us. From self-driving cars to facial recognition technology, AI is already being used in a wide range of applications. In the future, it is expected to play an even bigger role in our lives, helping us to solve complex problems and making our daily tasks more efficient.

## 5G

5G is the latest iteration of mobile network technology, and it promises to be much faster and more reliable than its predecessors. With 5G, we can expect download speeds that are up to 100 times faster than 4G, as well as lower latency and higher bandwidth. This will enable a range of new applications, from virtual and augmented reality to remote surgery and smart city infrastructure.

## Blockchain

Blockchain technology has been around for over a decade, but it is only recently that its potential has been fully realized. The decentralized and secure nature of blockchain makes it ideal for a range of applications, from financial transactions to voting systems and supply chain management. It is also being used in the development of cryptocurrencies like Bitcoin and Ethereum.

## Internet of Things(IOT)

IoT refers to the interconnectivity of devices and objects through the internet. With IoT, we can expect to see a world where everyday objects are connected and can communicate with each other. This has the potential to revolutionize the way we live, work and interact with the world around us. From smart homes and cities to wearable technology and healthcare, IoT is set to change the way we approach many aspects of our lives.

## Quantum Computing

Quantum computing is a rapidly evolving field, and it has the potential to change the way we solve complex problems. Unlike traditional computing, which is based on binary code, quantum computing is based on quantum bits or qubits. This means that quantum computers can solve problems that are currently impossible for traditional computers to solve. Applications of quantum computing include drug discovery, cryptography and optimization.

In conclusion, these are just some of the latest technologies that are making waves in the industry. As technology continues to evolve, we can expect to see even more exciting advancements in the near future. It is an exciting time to be alive, and we are only at the beginning of what promises to be a thrilling journey of discovery and innovation.



# "Revolutionizing Systems Programming: How Rust Outshines C++ in Safety, Performance, and Community"

-By Toran Jain  
(B.Tech CSE 2nd year)

## What is Rust?

Graydon Hoare at Mozilla Research created the popular programming language Rust with help from everyone else. It's a statically typed, multi-paradigm, advanced, all-purpose programming language that's been designed to ensure better performance and safety, and it's fast and precise. Rust is a computer language with syntax similar to C++ but no garbage collection.

## Rust v/s C++ :

Rust and C++ are two widely used programming languages for system programming and other low-level tasks. While both languages have advantages and disadvantages, there are several reasons why Rust is often thought to be a better choice than C++:

### Memory Safety :

Rust offers memory safety guarantees that C++ does not. Memory safety is a critical issue in systems programming, where errors such as null pointer dereferencing, buffer overflows, and use-after-free bugs can lead to serious security flaws and other problems. The ownership and borrowing system in Rust ensures that memory is managed safely, preventing these types of bugs.

### Concurrency and Parallelism :

The emphasis on concurrency and parallelism that Rust has over C++ is another advantage. Rust's design encourages developers to write parallelizable code that takes advantage of multiple cores and processors. C++, on the other hand, requires developers to use low-level threading and synchronization mechanisms, which can be difficult to implement correctly and result in difficult-to-debug errors.

### Better Functional Programming :

Rust also supports functional programming better than C++. Functional programming is a programming paradigm that emphasises immutability, pure functions, and other techniques that help to make code more modular, reusable, and understandable. Rust includes powerful functional programming features such as closures, pattern matching, and higher-order functions, which make it easier to write code that is both efficient and understandable.

### Expressive Syntax :

Rust also supports functional programming better than C++. Functional programming is a programming paradigm that emphasises immutability, pure functions, and other techniques that help to make code more modular, reusable, and understandable. Rust includes powerful functional programming features such as closures, pattern matching, and higher-order functions, which make it easier to write code that is both efficient and understandable.

### Community :

Finally, Rust has a vibrant and welcoming community dedicated to supporting and improving the language. The Rust community is known for its friendliness, helpfulness, and openness to new ideas, making it an excellent place to learn and grow for developers of all backgrounds and skill levels. The C++ community, on the other hand, can be more insular and difficult to navigate, with an emphasis on established best practices rather than experimentation and innovation.

### Conclusion :

In conclusion, while C++ has long been a popular language for system programming, Rust provides a safer, more modern alternative that avoids many of C++'s pitfalls.

Rust is quickly becoming the language of choice for developers looking to build fast, reliable, and secure systems due to its powerful memory management and concurrency features. So, if you're still stuck in C++, it might be time to give Rust a shot and see for yourself.



## School of Engineering & Computing

### Programmes offered

#### B.Tech.

- Computer Science & Engineering

#### B.Tech. CSE:

- Artificial Intelligence & Machine Learning
- Cyber Security & Forensics
- Data Science (Industry Integrated)
- Block Chain (Industry Integrated)
- Robotics Process Automation (Industry Integrated)

#### M.Tech.

- Computer Science & Engineering
- Civil Engineering
- Mechanical Engineering

### School Highlights

**5LPA**

Average CTC Offered

**75%**

of class placed by leading companies

**12LPA**

Highest CTC Offered

**10%**

Students had multiple Job Offers & Pre Placement Offers

#### B.Sc. :

- Animation & Gaming
- Information Technology

#### BCA

- BCA - Data Science (Industry Integrated)
- BCA - Full Stack Development (Industry Integrated)
- BCA - UX (Industry Integrated)

#### MCA

- MCA - Data Science (Industry Integrated)
- MCA - Full Stack Development (Industry Integrated)
- MCA - Dev Ops (Industry Integrated)
- B.Tech. (CE, ME, ECE, EE)