COER UNIVERSITY

COER UNIVERSITY
FORMERLY KNOWN AS UETR

UNIVERSITY OF
OPPORTUNITIES

TECH YOUR CAREER FORWARD
WITH IN–DEMAND COMPUTER SCIENCE PROGRAMS

@ COLLEGE OF SMART COMPUTING

Offered Programs

- B.Tech In CSE
- B.Tech In CSE with AI/ML
- B.Tech In CSE with Cyber Security

- BCA
- BCA (Hons.)

- M.Tech In CSE
- MCA
- Ph.D in CSE

Registrations Open: 2023

coeruniversity.in/programs/college-of-smart-computing

The College of Smart Computing at the COER University is a hub of innovation and cutting-edge research in the field of computer science. With a focus on hands-on learning and practical experience, the college prepares students to become leaders in the rapidly evolving technology industry. Students have access to state-of-the-art facilities and equipment, as well as world-class faculty who are experts in their fields. The college offers a wide range of programs, including undergraduate and post graduate programs in computer science, cybersecurity, data science, artificial intelligence, and more. Graduates of the College of Smart Computing are highly sought after by employers and go on to successful careers in a variety of industries.

The college has a specialized block that houses digital classrooms and labs, equipped with advanced audio-video facilities and high computing resources. This infrastructure is complemented by State-of-the-Art hardware and software, enabling students to gain hands-on experience and practical knowledge in the field of computing.

Moreover, the college has a team of renowned professors and industry experts who share their vast experience and knowledge with students. They provide a strong foundation in both theoretical concepts and modern software and hardware paradigms, preparing students for successful careers in the computing industry.

International Collaborations

Academic Exchange and Research Collaboration

University of Kentucky, USA	Debre Tabor University, Ethiopia	Kuban State Agrarian University, Russia
Southern Utah University, USA	École de technologie supérieure, Canada	Wayne State University USA

Industry Collaborations

Mahindra and Mahindra Ltd	Pyrax Polymers	Himalayan Environmental Studies and Conservation Organization, India	INTEL-COER Institutions	NIIT-COER Institutions

Industry Association

National Collaborations

	IIT Roorkee	NITTTR Chandigarh	AIESEC in Delhi University	Central Building Research Institute (CSIR-CBRI) Roorkee

USPs

1. Awards

The University is ranked No. 1 University in the State of Uttarakhand, No. 1 in the North Zone (UP, Uttarakhand, Haryana, Rajasthan and Punjab) and No. 10 in India among top 50 emerging Universities by Education Post, Vol. IX, Issue 11, Feb.-March 2022 under "IIRF 2022 University Ranking India"

2. NEP 2020 Powered Curriculum

CBCS stands for Choice-Based Credit System, and it is an educational system implemented in universities to offer more flexibility and customization to students in their academic pursuits.

3. Project Based Learning

Project-based learning (PBL) is an instructional method where students work on real-world projects and problems to learn new skills and knowledge.

4. Faculty

Qualified and experienced faculty members with PhD from Institutes of National reputes. Who have completed 100+ FDPs and Training programs in emerging topics. Resource person in many workshops on Entrepreneurship and research methodology.

5. Collaboration

Academic Opportunities with 7 International Universities, 4 National Universities and Research Institutes of repute, Industrial alliances with 49 industries and 3 Associations for the overall development of students.

6. Esteemed Distinguished Mentors

Distinguished Mentors from IITs, Foreign universities like Ecole de Technologie Superieure (ETS) in Montreal, Quebec, Canada, which promotes student exchange programs and research collaborations. The university also have a collaborative agreement with the Kuban State Agrarian University, Debre Tabore University,Ethiopia, International American University.

7. Campus Placement & Career Opportunities

The students of the department are employed in esteemed organizations like Amazon, Intellipat, Argusoft, Accenture, Google, Cognizant, Infosys, Wipro, Capgemini and many more with competitive salaries
ranging upto 44 LPA.

8. Entrepreneurship and Innovation

COER University's Incubation Cell fosters an entrepreneurial mindset and provides students with the tools they need to succeed. We believe that the Incubation program can have a transformative impact on our students and the wider community. We aim to contribute to a more sustainable, equitable and prosperous future.

9. Advanced Computing Laboratories

At COER College of Smart Computing, we have facilities of research and innovation which gives students and faculty the opportunity to work on real life problems.

Research & Innovation Lab: Innovation Labs are a co-working space – both virtual and physical – in which new ideas can be explored, in which hands-on project management takes place, and in which lessons learned are documented and shared with the co-owning Division. Innovation Labs are also a space from which the scaling of good practices can emerge.

Courses & Eligibility Criteria

Course	Duration	Eligibility criteria
B.Tech In Computer Science & Engineering	4 years (8 Semesters)	Minimum 50% marks in 12th standard examination with Physics Chemistry and Mathematics (PCM). 45% marks for SC/ST categories.
B.Tech In Computer Science & Engineering with AI/ML	4 years (8 Semesters)	Minimum 50% marks in 12th standard examination with Physics Chemistry and Mathematics (PCM). 45% marks for SC/ST categories.
B.Tech In Computer Science & Engineering with Cyber Security	4 years (8 Semesters)	Minimum 50% marks in 12th standard examination with Physics Chemistry and Mathematics (PCM). 45% marks for SC/ST categories.
Bachelor of Computer Application (BCA)	3 years (6 Semesters)	Minimum 50% Marks in Class X and XII. Minimum 50 % in PCM (Physics / Chemistry and Mathematics) in Class XII
Bachelor of Computer Application (BCA)(Hons.)	4 years (8 Semesters)	Minimum 50% marks in 12 th standard or its equivalent examination with Mathematics. 45% marks for SC/ST categories
M.Tech In Computer Science & Engineering	2 years (4 Semesters)	Graduate degree in BE / B.Tech with min 55% (General) / 50% (SC/ST)
Master In Computer Application (MCA)	2 years (4 Semesters)	Graduate degree in BCA / equivalent with min 50%
Ph.D in Computer Science & Computer Science & Engineering	As per UGC norms	As per UGC norms

Specializations & Value Added Programs

In order to narrow the divide between the Academic and Industrial realms, specific Value-Added Programs are integrated into each semester, as outlined in the session-wise table. To satisfy the curiosity of an aspiring computing student numerous Value-Added Programs (VAPs) are taught on campus, which kindle a desire within students to innovate and stay up-to-date with the latest trends, positioning them to become proficient professionals in their field.

01.	Computer Workshop	02.	Python Programming
03.	Machine Learning Using Python	04.	Deep Learning
05.	Data Analytics with Tableau	06.	Data Science using R
07.	Big Data Analytics using Hadoop Framework	08.	Cyber Security
09.	Cloud Computing	10.	Computer Hardware Software and Networking
11.	Mobile Application Development using Android	12.	Full Stack Development
13.	Advanced Java Programming	14.	Blockchain Technology

Project Based Learning

Do It Yourself

Under the Project Based Learning Pedagogy, the University guides the young talents to convert their dreams into reality for Innovation and Advanced Technology in the field of Artificial Intelligence , Digital Intelligenc, Drone Engineering and Robotics Engineering. It provides mentoring and technical support to each student in project implementation.
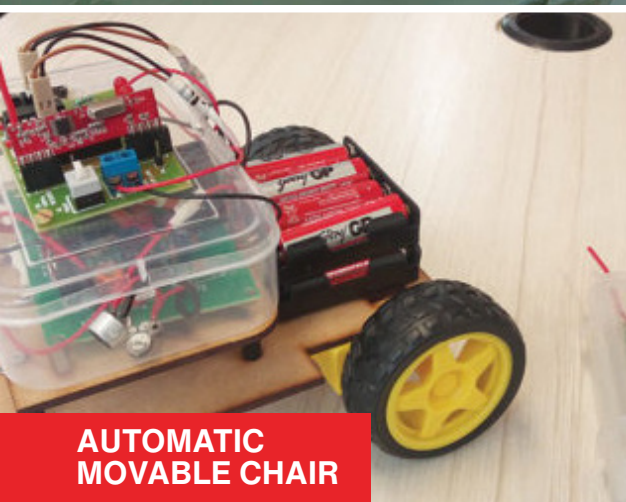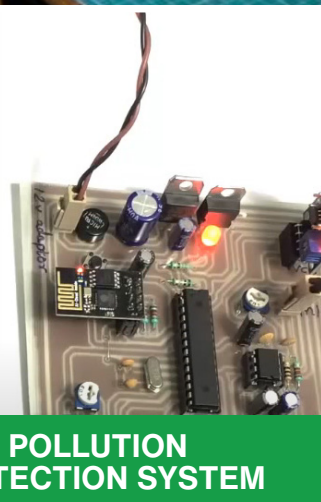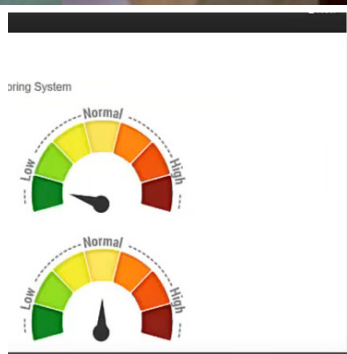
Selected student projects

WATER POLLUTION DETECTION SYSTEM

LIGHT CONTROL SYSTEM THROUGH GLOVE

AUTOMATIC MOVABLE CHAIR

AIR POLLUTION DETECTION SYSTEM

Research & Development

Looking for a place to conduct cutting-edge research and advance your academic career? Look no further than our Institution where we offer top-notch research facilities and a wealth of research opportunities across a variety of disciplines.

Research Facilities:

Research facilities at COER University include modern laboratories, libraries, research centers, and specialized software and tools that enable our researchers to conduct high-quality research and generate impactful insights.

1. Dedicated Research and Innovation labs, Several specialized advanced labs.
2. An Intellectual Property Rights (IPR) cell to help our students.
3. Institute Innovation cell (IIC) that provides guidance to research-oriented students.
4. A 'Do-It-Yourself (DIY)' platform for hardware-related projects/research.
5. Incubation Center to assist budding entrepreneurs in developing their businesses and solving problems associated with it.
6. COERU publishes Two International Journal in Engineering and Management fields.
7. Centres of Excellence in all emerging technologies that give students an opportunity to experiment through advanced infrastructure and equipment.
8. Renowned research mentors to assist the student in their research activities.
9. Tie-ups with other research labs such as CBRI, Design and Innovation Centre, IIT Roorkee, etc.
10. Collaboration with International Universities and Colleges for collaborative research activities.

ACTIVITIES THAT FUEL RESEARCH AT COERU

1. Each student writes a research paper every year; these are compiled and published in National and International Journal Research Journal or Conferences.
2. Faculty members are not only encouraged, but entrusted to publish papers in reputed International Journals like SCI, Scopus, UGC and more
3. Students and faculty are motivated to file Patents.
4. COERU funds Innovative Research Projects.
5. Monetary appraisals are given to faculty and students who bring in research grants and publish research papers.

Research Outcomes:

The faculty members are involved in intensive Research, which can be seen from last year's statistics.

Paper Published in Journals	45
Paper Published in Conference	29
Patents Published	20

Labs

Programming Lab

Programming Lab provides a practical learning experience for students to apply theoretical concepts in real-life scenarios. It helps them develop programming skills and gain hands-on experience in software development. In this students are taught languages like C, C++, Java, and Python.

Database Management Lab

It equips students with practical skills to design, implement, and manage databases. It provides hands-on experience in database systems, allowing students to understand data modeling, SQL programming, and database administration.

Cyber Security Lab

In the Cyber Security lab, students learn security features to be implemented through the software which can be used to resolve cybercrime-related issues
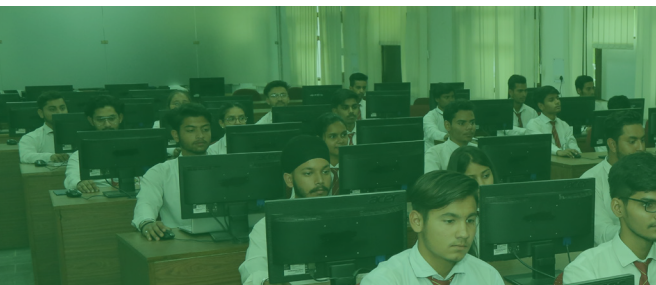

Computer Networks Lab

This lab is dedicated to students to working on practical experiments, projects, and research work related to courses such as Computer Networks, Wireless Networks, Mobile Communications, Software-Defined Networking, the Internet of Things, Future Networks (5G), and Cloud Computing.

AI & ML Lab

AI facility at COER, is specially designed to enable students' rotation between the AI Stations. Each configuration includes more than 1,000+ instructional hours and provides learners with practical hands-on activities exposing them to multiple disciplines.

Cloud Computing Lab

Grids enable access to shared computing power and storage capacity from your desktop. Clouds enable access to leased computing power and storage capacity from your desktop.

Data Analytics Lab

Data Analytics Lab investigates various topics related to large-scale data analysis. We are specifically interested in:

traditional database and Query Processing,

Big Data Processing and analytics

AI, machine learning and data mining

Data Science Lab

In this Lab, Students specialize in using advanced computational techniques to solve problems in various fields. Specifically, they employ machine learning, data mining, and network analysis methods to extract insights and knowledge from large and complex datasets.

Graphics & Animation Lab

Computer graphics deals with all aspects of creating images using computers and, more generally, the representation and manipulation of image data by computer.

AR/VR Lab

It creates a completely digital and artificial environment, a 360-degree, captivating user experience that feels real. In a VR setting, students can connect with what they see as if they were really present there. Through AR lab, students will learn an enhanced version of the real physical world that is achieved through the use of digital visual elements, sound, or other sensory stimuli delivered via technology.

Web & Mobile App Development Lab

Mobile app development refers to creating apps for mobile devices like phones and PDAs. These apps can be pre-installed or delivered through the web, and developers must consider various screen sizes and hardware configurations due to competition. It's a growing industry with many job opportunities.

IOT Lab

IOT lab will dedicatedly work on making connections with devices and enabling them to control human speech and various OS like android and ios. It will also lead to automation development with wifi or Bluetooth connectivity.

Placements

Employability is at the heart of everything we do at COER University. We think outside the classroom to ensure our students graduate as confident and career-ready individuals, prepared to make a difference in their chosen field. Our students will not only achieve a qualification but leave campus equipped with life-changing skills. Our graduates are motivated, self-confident, digitally aware, enterprising individuals who are making an impact on the world stage.

"Join COER'U's vibrant community of successful alumni with impressive career trajectories, placed among the Fortune 500 and top 1% of Indian companies."

Highlights	HIGHEST PACKAGE **44LPA**	AVERAGE PACKAGE **6.5LPA**

Testimonial (Placements)

"I attribute my success to the college, faculty, and placement cell for providing guidance, technical classes, doubt-solving, and facilities that helped me achieve my first job."

Mr. Vishal Tomar
B. Tech., Class of 2022 | Placed with **Argusoft India Ltd.**

"Honestly speaking the experience of sitting in a placement interview was nerve-racking. The faculties guided me on my queries which resulted in my successful placement"

Ms. Aishwarya Saxena
B. Tech., Class of 2022 | Placed with **Hexaware Technologies**

Top Recruiters

Microsoft	amazon	HCL	Infosys
IGT SOLUTIONS	wipro	Cognizant	HEXAWARE
NEWGEN	vivo	RUBICO	daffodil
metacube	GrapeCity	CodeStore DESIGN | INNOVATE | CREATE	and many more...

If you find yourself analyzing the latest and greatest tech releases, dreaming up your own tech creations, or even coming up with solutions to make current products better, then you might want to consider a career in the computer science field. From the newest phone apps to the next hottest tablet or phone, there's no avoiding the buzz that surrounds tech culture.

A few of the career options include...

APPLICATION ANALYST	APPLICATIONS DEVELOPER	CYBER SECURITY ANALYST
DATA ANALYST	FORENSIC COMPUTER ANALYST	GAME DESIGNER
GAME DEVELOPER	MACHINE LEARNING ENGINEER	TELECOMMUNICATIONS RESEARCHER
SOFTWARE ENGINEER	SYSTEMS ANALYST	UX DESIGNER
UX DESIGNER	WEB DESIGNER	WEB DEVELOPER
BUSINESS ANALYST	IT SALES PROFESSIONAL	IT TRAINER

Incubation and Entrepreneurship

Objectives

Cultivating the spirit of Entrepreneurship

Strengthening three kinds of professional qualities (Leadership, Risk Taking, Teamwork)

Expanding Ways to Employment

Bearing a part in Quality-Oriented Education

Incubation Partner

Startup Uttarakhand

TIDES
BUSINESS INCUBATOR

Bharat Verma
Founder and Director
Warehow Technologies
Pvt. Ltd.

Sonu Kr Baunsla
Founder
SBG Stores

Ankit Khandelwal
Co-Founder
Ginger Webs Pvt. Ltd.

Deepti Agrawal
Founder and Director
Codestore

Shivendra Dudpuri
Founder & Director
Delhi Web Studio

Kshitij Jain
Founder
KN Infinity Developers

Alumni Network

The Alumni Network at College of Smart Computing, COER University, is an essential and thriving community of successful professionals. Our Alumni are the reflection of the quality education and training we provide. They have pursued diverse careers across various industries and countries, and their experiences are a testament to our academic excellence. We are proud to have produced some of the most talented and successful alumni who are making significant contributions to the Industry.

Some of the Notable alumni include

Pankaj Katheria
Deputy Director
PepsiCo

Ajay Ratauri
Consultant
Oracle

Kapil Rajwar
Associate Director
Hewlett Packard Entp.

Nitin Gupta
Sr. Research Scientist
IBM Research AI

Himanshi Pundir
Cloud Subject Matter
Expert Director, Adobe UK

Rishabh Gupta
Computer Scientist
Adobe

Shekhar Goyal
Cloud Technical Architect
Accenture Australia

Shirish Gupta
Senior Manager
Accenture Solutions Pvt. Ltd.

Ankit Jain
Associate General Manager
HCL Technologies

Join COER University and unlock your potential with our diverse student clubs! Enhance your skills and expand your network through our HR, finance, coding and agriculture clubs. Join the community of motivated and passionate students at COER University and take the first step towards a successful career.

EARN WHILE YOU LEARN
Code your way to a better tomorrow with EWL

The club offers various projects related to Android development and web development, including COER App, Pharmacy Website, COER Paramedical Website, Earn While You Learn Website, COER Music App, Mpurse, and Digital Payment & E-commerce website. These projects provide students with practical experience and help them prepare for a better future

THE ARTIFICIAL INTELLIGENCE CLUB

With the goal of cultivating the burgeoning interest in machine intelligence among students, the AI Club has been established on campus. Its aim is to improve students' abilities in analyzing, designing, and building model-based AI applications. The primary emphasis will be on problem-solving, analysis, design, and research in areas such as Artificial Intelligence, Machine Learning, and Deep Learning.
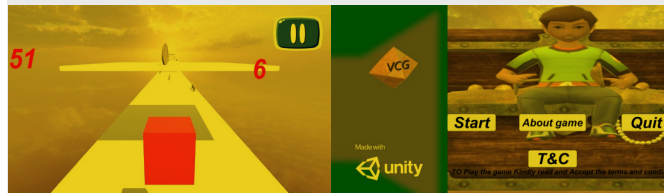
JIGYASA – The Technical Club

The technical club, christened 'Jigyasa' came into being, entrusted with the task of providing a stable platform to young students to provide a tangible shape to their ideas. Jigyasa is entrusted with the responsibility of organizing Manthan, the Annual Inter-University Techno-Management Fest of COER and a number of competitions catering to the aptitude and taste of almost every student.

GAME DEVELOPMENT COMMITTEE
The GDC emphasizes overall development in the field of game development, IoT. etc.

Some of the projects under Game Development Committee
1. Voice Control Game
2. Zombie Attack
3. Block Run

CODING GEEKS

In today's rapidly changing environment, programming skills are essential tools that can be utilized and incorporated into various heads and domains. Hence, it becomes absolutely essential to equip young minds with such skills.

Some of the projects under Coding Geeks
· Human Activity Recognition
· Gesture Controlled Robot
· Home Automation using Leap Motion
· AI Virtual Mouse

ZION (THE CULTURAL FEST)

EXPRESSIONS

MANTHAN

Auditorium

The University's central auditorium is enormous and acoustically built. The facility is well-furnished, air-conditioned and equipped with a sophisticated projector and audio systems with Internet access.

Cafeteria

The University has two campus cafeterias offering an abundance of good cuisine. One may have wonderful foods at an extremely fair price. You may readily find a variety of dining options, from local cuisine to fast food.

Medical Facility

The University campus has a well-equipped HealthCenter that can take care of common health problems and provide immediate care in case of medical emergencies. A cab/ambulance is always available on campus in case of unanticipatedemergencies. The university health centre is staffed 24 hours a day by a team of physicians and medical assistants

Departmental Store

A department store on the university premises offers a wide range of consumer goods, including stationery items, gift items, sporting goods, toiletries, and other essential goods required by the students.

Library

The Library is in the area of 1120 Sq. meter with 200 seating capacity. It is completely computerized and uses bar coding system access through ERP with RFID Identity cards facility.

ATM Facility

The students can access the University's ATM 24x7 for their immediate cash requirements and other essential financial transactions. It is equipped with CCTV surveillance to ensure their safety.

Admin Block

The University's administrative block is a well-designed and spacious building that houses the vast offices of the entire Top-Management team, an Account Department, HR section, a review board room with video-conferencing capabilities, a reception, a corporate zone and a conference room.

Academic Block

The Academic Blocks of the university are prepared with well-lit and well-ventilated classrooms equipped with smartboards, wall cupboards and whiteboards.

Hostel

Hostel rooms are spacious, semi- furnished and available on single/double occupancy. Indoor games are available in all the hostels. Common Basketball Courts, Volleyball Courts, and Café are available in vicinity of all hostels.

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