



COER
UNIVERSITY
FORMERLY KNOWN AS UETR

New Career Opportunities Ahead

@ COLLEGE OF SMART AGRICULTURE



Offered Programs

- B.Sc. (Honors) Agriculture
- Ph.D. Agronomy
(As per ICAR Norms)
- M.Sc. Agriculture (Agronomy)

Registrations Open: 2023

About Us

The College of Smart Agriculture offers a range of undergraduate, postgraduate, and doctoral degree programs in the field of agriculture. These programs are supplemented by a comprehensive set of courses that are designed to provide experiential learning opportunities, entrepreneurship and job-seeking skills, innovative research, and extension activities. These courses are integrated with progressive activities in smart agriculture, which ensures that students are well-equipped to meet the versatile demands of local, regional, national, and global standards.







The College has state-of-the-art infrastructure, including ICT-enabled classrooms, well-equipped laboratories, practical fields, advanced crop research farms, and horticulture gardens. This infrastructure is essential for providing students with hands-on training in agriculture, allowing them to develop their skills in real-world scenarios. The faculty members have a wealth of knowledge and experience in the field of agriculture, and they use their expertise to provide students with the best possible education.



Collaborations






International Collaborations

Academic Exchange and Research Collaboration

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



Industry Collaborations

 <p>Mahindra & Mahindra</p>	 <p>Pyrax Polymers</p>	 <p>Himalayan Environmental Studies and Conservation Organization, India</p>	 <p>INTEL-COER Institutions</p>	 <p>NIIT-COER Institutions</p>
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Industry Association National Collaborations

 <p>SIDCUL MFG. ASSOCIATION UTTARAKHAND</p>	 <p>IIT Roorkee</p>	 <p>TEAMING TOGETHER NITTR CHANDIGARH</p>	 <p>AIESEC in Swathi University</p>	 <p>CBRI CENTRAL BUILDING RESEARCH INSTITUTE, ROORKEE A Government Institution of CSIR</p>
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Why School of Smart Agricultural Science?

1. Awards

The University (UETR) 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"

3. 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 collaborates with the Kuban State Agrarian University, Debre Tabor University, Ethiopia, and International American University.



2. 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.

4. 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.



5. State-of-the-art infrastructure

ICT-enabled classrooms, well-equipped laboratories, a well-maintained horticulture garden, an advanced crop research farm, and mesmerizing landscape on the campus.



8. Project Based Learning

Student engagement in extension programs in villages adopted by the University under UBA in collaboration with IIT Roorkee.



6. ICAR Powered Curriculum

The school is offering advanced and updated course curriculum of UG and PG degree programs as per recommendations of ICAR and enrichment of syllabus with value-added courses.



**Indian Council of
Agricultural Research**

9. Faculty

Qualified and experienced faculty members with Ph.D. from Institutes of National repute, who have completed 100+ FDPs and Training programs in emerging topics. Resource person in many workshops on Entrepreneurship and research methodology.

7. Corporate Connect

Students get real-world exposure through Rural Agricultural Work Experience (RAWE), Agro-Industrial Attachment (AIA) and Experiential Learning Programmes (ELP).



Courses & Eligibility Criteria

Course	Duration	Eligibility criteria
B.Sc. (Honors) Agriculture	4 years (8 Semesters)	Candidate must have passed 10+2 with PCM/PCB/CBZ from a recognized board or its equivalent with minimum 50% marks.
M.Sc. Agriculture (Agronomy)	2 years (4 Semesters)	Candidate must be graduate under 10+2+3 or 10+2+4 pattern in courses like Horticulture, Forestry, and Agriculture securing at least 50% marks or equivalent CGPA in aggregate, from a recognized university.
Ph.D. Agronomy	As per UGC norms	Master's Degree from any AIU/UGC/ AICTE recognized University/ Institutions or any other qualification recognized as equivalent thereto in the fields of study notified from time to time by the University. A minimum of 55% marks or CGPA of 5.5 on a 10 point scale in the qualifying examination (50% marks or CGPA of 5.0 on a 10 point scale for SC/ST candidates).



Value Added Programs

The College of Smart Agriculture recognizes the importance of providing students with practical skills and knowledge that will prepare them for a successful career in the agricultural industry. In addition to our core curriculum, we offer a range of value-added programs that enhance students' learning experiences and provide them with a competitive edge in the job market.

Some of the VAPs provided are:

01. *Agri-business and Marketing*
02. *Sustainable Agriculture*
03. *Agricultural Communications*
04. *AI & ML in Agriculture*
05. *Data Analytics in Agriculture*
06. *Agronomy*
07. *Horticulture*
08. *Plant Pathology*
09. *Soil Science*
10. *Food Technology*
11. *Agricultural Economics*
12. *Veterinary Science*
13. *Global Food Health and Security*
14. *Climate Smart Agriculture*
15. *Hydroponics*
16. *Integrative Health and Wellness*



Project Based Learning



Digital Farming

The purpose of digital farming system is to collect and interpret data, and to give the best recommendations possible to farmers (or other stakeholders), in terms of water, soil and nutrition management. These tools and services improve our overall crop nutrition solutions by supporting the farmer with in-time and precise application.

Recirculating Aquaculture and Aqua-ponics System

Recirculating aquaculture and aqua-ponics system is an integrated fish and plant production technology mainly comprising of two subsystems viz “Aquaculture” and “hydroponics.” This system is useful for rearing fish and plant in indoor tank in a controlled environment. In this system, plants grow fast because they get nutrient substances from the fish waste.



Vermi Composting:

Vermicomposting is the scientific method of making compost, by using earthworms. They are commonly found living in soil, feeding on biomass and excreting it in a digested form.



Integrated Farming System

The benefits and goals of integrated farming are enhancing productivity per unit area, profitability, proper waste management, soil health management, livelihood improvement, fight against deforestation and overall environmental safety.

Drip Irrigation

Drip irrigation is a type of micro-irrigation system that has the potential to save water and nutrients by allowing water to drip slowly to the roots of plants, either from above the soil surface or buried below the surface. The goal is to place water directly into the root zone and minimize evaporation.



Mushroom Cultivation:

Mushroom farming consists of six steps, and although the divisions are somewhat arbitrary, these steps identify what is needed to form a production system. The six steps are Phase I composting, Phase II composting, spawning, casing, pinning, and cropping.

Research & Development

Our institution is committed to advancing the field of agriculture through cutting-edge research, innovation, and technology. With a focus on sustainability, precision farming, and animal welfare, we aim to provide solutions to the challenges facing the agriculture industry today and in the future. Our state-of-the-art research facilities, specialized laboratories, and industry partnerships enable us to conduct high-quality research and find solutions to real life problems.

Research Facilities:

Our cutting-edge research facilities are equipped with modern laboratories, a comprehensive library, research centers, and advanced software and tools that empower our researchers to conduct world-class research and generate impactful insights. This includes

1. Greenhouses
2. Plant Growth Chambers
3. State-of-the-Art Laboratories
4. Field Research Stations
5. Data Management and Analysis Centre
6. Hydroponics Systems
7. Agro-Forestry Systems

Funding opportunities:

We provide ample research opportunities for our students and promote sustainable agriculture, research, ideas, theories & practices in the field of agriculture:

1. Internal Research Grants
2. External Research Grants
3. Industry Partnership
4. Academic-Research Collaborations
5. State Agriculture Department Collaborations
6. Seed Funding for Startups

Research Outcomes:

The faculty members are involved in intensive research which can be seen from the statistics of last year:

Paper published in International/
National journals of high Impact Factors **15**

Project Submitted to DST/USERC/
UCOST **1 Cr.**
Approx

Patent Published **06**

Book Chapters **03**

The College of Smart Agriculture boasts advanced and well-equipped laboratories, which offer students hands-on training in diverse fields of agriculture. These laboratories are designed to emulate real-world situations and offer an immersive learning experience to the students.



Soil Science Laboratory

The soil science lab is equipped with sophisticated instruments that allow students to analyze soil samples and assess their fertility and nutrient content. They can also perform Water Testing and Analysis.



Plant Pathology & Microbiology Laboratory

The laboratory is well equipped with fungal and bacterial raising cultures, autoclaves, BOD incubator, Colony counter, EC meter, and advance microscopes.



Entomology Laboratory

This laboratory is an interesting place for the collection and identification of insects for better management practices. It consists of modern entomological tools and a varied collection of insect specimens.



Horticulture Garden

The garden is well equipped with the best basic horticultural tools, samples of horticultural seeds and bonsai plants, fruit plants, mango orchard, exotic fruit varieties, etc.



Genetics and Plant Breeding Laboratory

The laboratory is equipped with the basic tools and instruments providing insight into molecular biology practices along with breeder's tools for a better understanding of breeding methodologies.





Crop Research Farm

CoSA has maintained a Crop Research Farm within the campus and raised different crops and their varieties in Kharif and Rabi seasons. It is useful to demonstrate to the students the method of field preparation, seed sowing, nursery practices, irrigation methods, manure and fertilizer application, pests and pathogens identification, and their management for different crops and their varieties grown in Uttarakhand.



Greenhouse & Nursery

In the greenhouse, crops can be protected from adverse environmental conditions. Within the university, a campus greenhouse has been set up with the aim to provide opportunities for agriculture students to learn methods of modern farming practices, especially in a controlled environment. It is also used for research purposes.



Mushroom Cultivation Unit

CoSA has established a mushroom cultivation unit to demonstrate spawn production, preparation of compost bags, casing, cultivation of mushrooms, packaging, and marketing.



Navagrah Vatika

Navagrah Vatika is the center of attraction where nine different plants representing nine planets of the solar system are grown. Along with these plants, various other medicinal and aromatic plants are raised and maintained in the Vatika.



Vermicompost Unit

CoSA has established a function unit to demonstrate the production of vermicompost. The products are used for organic farming and in Practical crop production fields.



Forestry Laboratory

This laboratory consists of timber from various important trees and a variety of herbarium stocks.



Agronomy Laboratory

This laboratory consists of traditional and modern agricultural instruments which are being used to raise field crops.

Training and 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 fields. 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.

To prepare agriculture students for successful placement, it is essential to provide them with a well-rounded education that combines theoretical knowledge with practical experience. Here are some training programs that can help agriculture students to improve their chances of getting placed:

Internships

Field Trips

Workshops and Seminars

Career Counselling

Communication Skills

Professional Networking

Guest Lectures

Maths and Aptitude Training



Career Opportunities

Agriculture has unlimited career options:

AGRICULTURE
OFFICER

AGRICULTURE
ANALYST

ASSISTANT PLANTATION
MANAGER

AGRICULTURAL
RESEARCH SCIENTIST

AGRICULTURE
TECHNICIAN

SEED
TECHNOLOGIST

PLANT
BREEDER

AGRICULTURAL
ENGINEER

SERICULTURIST

FOOD
TECHNOLOGIST

ICAR SCIENTIST

RESEARCH
ASSISTANT

PROJECT
ASSOCIATE

ANIMAL
BREEDER

SOIL & PLANT
SCIENTIST

\$ 25.47 billion

FDI equity inflow in the Indian
food processing industry
(Apr 2000-Mar 2022)

18.8%

Gross Value added to
GDP by agriculture sector
(FY 2021-22 until 31 Jan, 2022)



\$ 9,598 million

Agricultural and processed
food exports grew by 30%
(YoY, Apr-Jul 2022)

\$ 15.9 billion

Allocated to the Department
of Agriculture, Cooperation
and Farmers' Welfare
(Budget 2022-23)

Incubation & Entrepreneurship opportunities

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



Some of the projects done are



Ritik Raushan

Vermicompost

This type of bio-fertilizer is prepared by mixing up earthworms on biological and plant residues. The objective is to compost organic wastes not for the disposal of solid organic wastes but also to produce superior quality manure to feed our “nutrient/organic matter hungry” soils.



Murad Alam

Medicinal Mushroom

Mushroom cultivation is a technology of growing mushrooms using plant, animal and industrial waste. It is organic in nature and is wealth out of waste technology. This technology has gained importance worldwide because of its dietary fibres and proteins value. Mushroom is a fungi belonging to basidiomycetes.



Vishal Chaudhary

Flowers oil extraction

Flower oil Extraction which will be used in making perfumes/ aromas and useful for other decorative purposes. Floral extracts contain vitamins and antioxidants that help moisturize, cleanse and smoothen skin, as well as fight early signs of aging and free radical damage. The easiest way to enjoy the skin benefits of flowers is by reaching for products that are specially formulated with floral essential oils.



Unnati

Commercial Utilization of Medicinal Plant

Medicinal plant used in the food industry, pharmaceutical, perfumery and cosmetics, among others. The medicinal plants are useful in the treatment of common ailments like relief from headache, indigestion problem and even irritation from insect bites. Commercial Utilization of these plants can benefit the health sector.



Kushagra phougat

Agricultural marketing

Agriculture marketing Service to help farmers in supplying their products to mandis / mall/ vegetable stores and local markets. It is a link between the farm and the non-farm sectors. It will facilitate the promotion, consolidation and sustainability of farming business by facilitating quality services

Enhanced Learning Experience

At the College of Smart Agriculture, we believe in providing our students with a comprehensive learning experience that goes beyond the classroom. To this end, we regularly organize guest lectures, workshops, seminars, and industrial visits to enhance our students' understanding of the agricultural industry and prepare them for successful careers.

Some of the activities conducted under this are

“Green technologies as a paradigm of animal husbandry development” by Prof Komlatsky Grigory Vasillevich, Doctor of Agricultural Science, Kuban Agrarian University Russia

Carrier talk on “Agriculture education: A potential path for career of agriculture graduates” by Mr. Sumit Soni, Programme Manager, Agri Capacity Building, India

Two days training on “Regenerative Agriculture” by Naandi Foundation – Mahindra Pride Club

One day workshop on “Cow based Bioenhancer: A Potential Tool for Organic Agriculture by Dr. Himanshu Trivedi, Associate Professor, IFTM University, Moradabad

One Day lecture cum workshop on “VRIKSHA AYURVEDA AND GREEN INDIA” by Mr. Rohit Mehra (IRS)

Educational visit to Krishi Vigyan Kendra, Dhanouri on “Antyodaya Diwas” 25 September 2022 for the students of B. Sc Agriculture.



Clubs

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.



ECO CLUB

ECO CLUB COER University was formed with the aim of making the students aware of their environmental issues and their duties towards the nature. It conducts different activities with the sole objective of creating awareness about the degrading environment and initiating a sense of responsibility among the fellow COERians.



AG-VENTURE CLUB

The club was created with the goal of educating and informing students about various aspects of agriculture. This includes sharing knowledge about the latest trends and advancements in the field of agriculture, as well as providing students with the opportunity to participate in various activities related to agriculture.



EARN WHILE YOU LEARN

“Earn While You Learn” Club offers various training programs and workshops to help students develop the skills and knowledge necessary to succeed in their chosen field. This can include topics such as agricultural entrepreneurship, financial management, and marketing strategies. It aims to provide students with opportunities to earn money while gaining practical work experience related to their field of study.



THE LINGUISTIC COMMITTEE

The Linguistic Committee at COER University is dedicated to enhancing students' interpersonal and soft skills, providing them with competitive exam preparation and better job prospects. The committee hosts a range of events and activities such as foreign language courses, proficiency tests, linguistic fests, debates, movie reviews, and more to encourage language learning and communication skills.

ZION (THE CULTURAL FEST)



EXPRESSIONS



MANTHAN (THE TECHNICAL FEST)



Infrastructure-Academics and Campus

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 unanticipated emergencies. 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.





COER
UNIVERSITY

FORMERLY KNOWN AS UETR



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