



**COER**  
**UNIVERSITY**  
**ROORKEE, UTTARAKHAND**

# **ELEVATING EXCELLENCE: STRATEGIC PLAN VISION- 2027**



INTERNAL QUALITY ASSURANCE CELL  
**COER UNIVERSITY**

# Our Vision

**To promote innovation-centric education, become centre of excellence to international standards, perform research in pace with industrial development; producing 'life and career ready' professionals.**





# Mission

**M1:** To develop the professionals having basic and advanced competencies so that they can serve Society & Industry, and face global challenges.

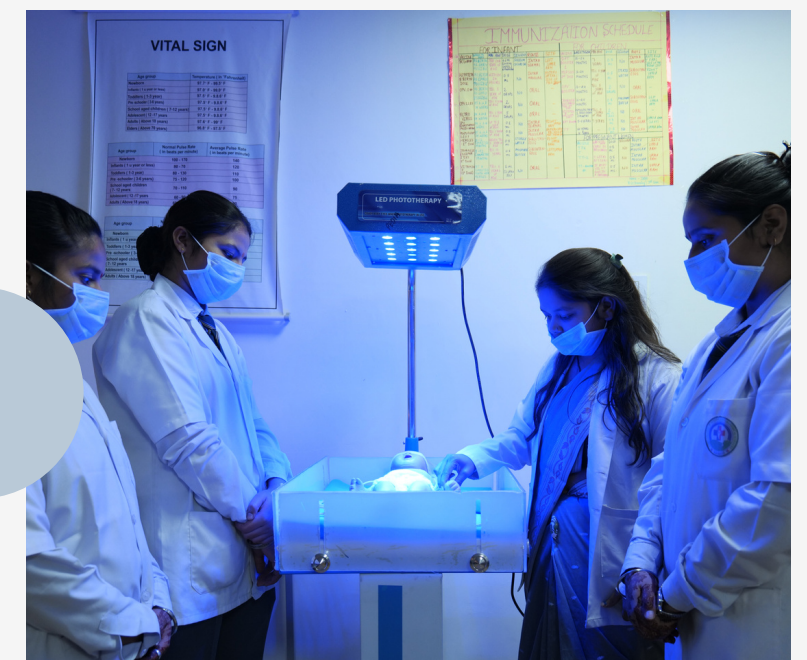
**M2:** To impart education based on the latest knowledge, with analytical and experimental skills, through advanced methods of training, research and strong Institute-Industry interface.

**M3:** To create an innovative and entrepreneurial ecosystem.

**M4:** To promote research/based projects/activities in the emerging areas.

**M5:** To foster the science of creativity and educate ownership for sustainable & scalable ventures.

**M6:** Inculcate strong moral values and integrative thought processes for disciplined professional growth and instil lifelong learning.





# COER UNIVERSITY VALUES

COER University stands out for its commitment to academic excellence, industry-relevant curriculum, and research opportunities. Beyond these core strengths, COER fosters a vibrant community guided by values like innovation, diversity, and ethical conduct, with additional emphasis on sustainability, social responsibility, and lifelong learning



## Excellence

Excellence: Striving for continuous improvement and achieving high standards in all aspects of teaching, research, and student development.



## Global Perspective

Cultivating an international outlook, preparing students to be active participants in a globalized world.



## Ethical Conduct

Upholding ethical principles in all endeavors, promoting honesty, integrity, and social responsibility



## Diversity and Inclusion

Embracing and valuing various perspectives, experiences, and backgrounds to create an inclusive learning environment for all.



## Innovation

Fostering a culture of creativity and encouraging exploration of new ideas to solve problems and advance knowledge.

**WHAT**

**University**  
**with a diversified group of faculty,**  
**students and staff pursuing nationally relevant and**  
**internationally recognised basic and translational research**

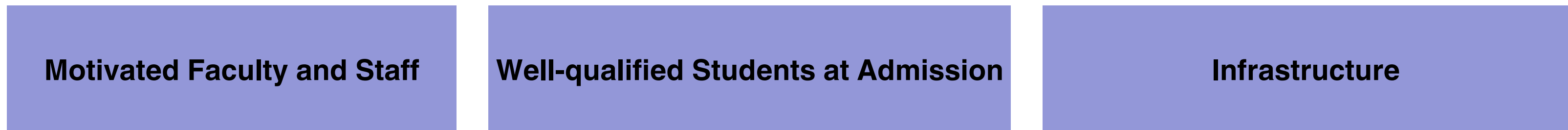
**WHY**

**To align with the University's objectives and contribute to national aspirations**

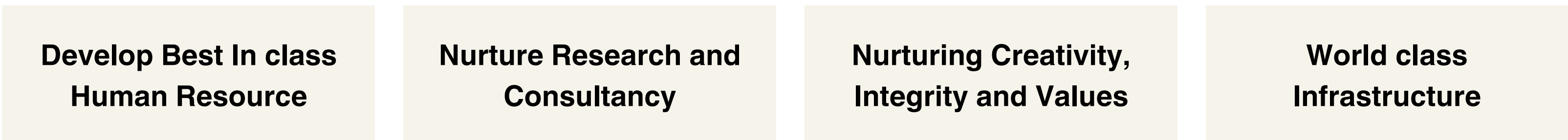
**HOW**



**ENABLERS**



**CORE ACTIVITIES**



# THE TARGETS 2023-2027

A University with a diversified group of faculty, students and staff pursuing nationally relevant and internationally recognised basic and translational research

## WHY

TO MEET INSTITUTIONAL AND NATIONAL ASPIRATIONS

## HOW

- Moving to hybrid Pedagogy
- Nurturing deep-tech Startups
- Sustaining growth in industry engagement
- Recruiting international students and faculty
- Enabling faculty to build active international collaborations
- Engaging alumni/ corporate partners
- Upgrading infrastructure to global standards

## ENABLERS

- Motivated Faculty and Staff
- Well-qualified Students at Admission
- Well-qualified Students at Admission

## CORE ACTIVITIES

- Developing high-quality human resources to build the nation
- Pursuing world-class research – blue-sky, translational and transformational
- Providing thought leadership to society and governments

# Best Educational Practices

## Key Indicators

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- Quality teaching to the students
- Monitoring and Evaluation of Teaching practices
- Professional skills and value-added programs
- Incorporating ethical values through various committees and NGOs
- Participation of faculty in Conferences, Faculty Development Programs, and symposiums
- Creating a culture of excellence in research, innovation, and entrepreneurship
- Developing relations with reputed national/international institutions through collaborations and student exchange programs
- Minimum (2-4) % of students developed as entrepreneurs on completion of the program
- At least one international academic activity of COERU every year such as Faculty visiting abroad for conference, post doctoral work, students visiting abroad for internship, Experts from overseas visiting COER for lectures, conference etc.

# **ICT based teaching learning process with special emphasis on project based learning**

## **Key Indicators**

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- **Establishing an effective online teaching learning infrastructure**
- **Professional Training of faculty members on the usage of cutting-edge ICT Tools**
- **To implement 100 % online lecture delivering system in a situation like COVID-19 pandemic**
- **Promoting students to pursue MOOC courses**
- **Promoting use of virtual labs at least for one lab in each semester in every department as per NEP- 2020**
- **Promoting virtual conferences, workshops in every department**



# Management of financial resources

## Key Indicators

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- **Outcome-oriented Budgeting: Department wise Budget planning of all heads of accounts.**
- **Fee collection (Major Source)**
- **Center for continuing education: Internal revenue through executive training programs, short term courses, consultancy, and sponsored research**
- **Endowment fund generation through Alumni**

# Adequacy of Infrastructure

## Key Indicators

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- **State-of-the-Art Facilities:** Ensure that the infrastructure includes modern and state-of-the-art facilities that meet the evolving needs of students and faculty.
- **Technology Integration:** Integrate advanced technology into infrastructure, fostering a technologically rich learning and working environment.
- **Capacity for Growth:** Design infrastructure to accommodate growth in student enrollment and expansion of academic programs.
- **Safety Measures:** Implement robust safety measures and compliance with safety standards to guarantee the well-being of all occupants.
- **Student Amenities:** Include recreational spaces, student lounges, and amenities that contribute to the overall well-being and satisfaction of students.
- **Energy Efficiency:** Integrate energy-efficient systems and sustainable practices in infrastructure development to minimize environmental impact.
- **Up-to-Date IT Infrastructure:** Ensure that the IT infrastructure is up-to-date, supporting the connectivity and technological requirements of modern education.
- **Maintenance Systems:** Implement effective maintenance systems to preserve the longevity and functionality of infrastructure components.
- **Green Spaces:** Incorporate green spaces and landscaping, promoting a healthy and aesthetically pleasing campus environment.
- **Infrastructure for Research and Development:** Establish dedicated infrastructure for research and development activities, supporting innovation and academic excellence.



# Center of Excellence in Frontier Technologies

## Key Indicators

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- Establish strong ties with industry leaders to apply frontier technologies to real-world challenges.
- Nurturing a dynamic environment for innovation through incubation and mentorship.
- Offer specialized training programs to cultivate expertise in frontier technologies.
- Actively contribute to academic knowledge through publications and conferences.
- Build strategic global partnerships with leading institutions and experts.
- Involve students in research projects and hands-on experiences related to frontier technologies.
- Form an expert advisory board for guidance and strategic insights.
- Undertake impactful projects showcasing practical applications of frontier technologies.
- Encourage a culture of continuous learning and adaptation among researchers.
- Seek recognition nationally and internationally for contributions to frontier technologies.
- Actively engage in technology transfer and commercialization initiatives for societal impact.

# Research and Innovation

## Key Indicators

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- Improving the research input in terms of both human and physical resources
- To strengthen the postgraduate in Engineering (M. Tech.) program.
- Creating a better ambience for research by providing greater flexibility to encourage performance of faculty members and scholars while continually improving research infrastructure
- A process for continuous performance improvement at the University, department, group and personal levels to achieve excellence.
- Publication in top journals and presentation at venues where the worlds leading researchers are present will be encouraged
- Research output will be assessed periodically, and early-career faculty members will be assisted in every way possible to enhance their productivity



# Incubation and Entrepreneurship

## Key Indicators

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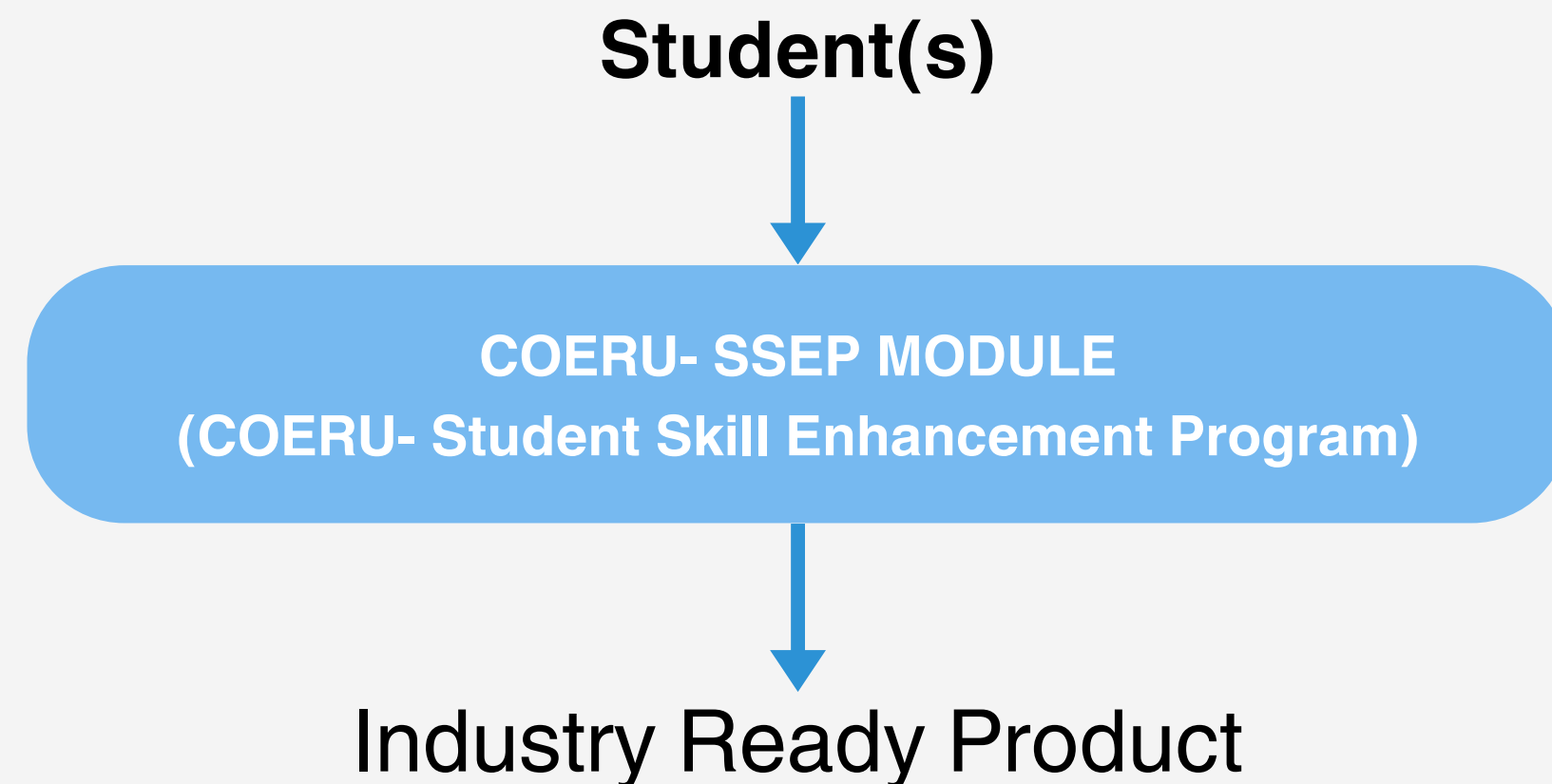
- More Start-ups to come up
- To enable all facilities for product development
- To help Students in documentation
- To help students with some amount as seed money
- Engage alumni in Incubation and Entrepreneurship

# Student Profiling and Skill Enhancement

## Key Indicators

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- Identify the career options for the students in the field of their choice
- Counsel them about the current trends of the recruitment drives of reputed companies
- Train them for placement drives on/off campus
- Arrange mock tests for recruitment





# Alumni engagement

## Key Indicators

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- Increasing the presence of the University in social media to promote engagement between alumni, students and faculty members
- Telecasting and other personalized efforts to actively engage with alumni.
- Increasing the number of face-to-face meetings
- Creating more opportunities for alumni to spend time on campus and engage with students and faculty.

# Short Term Goals

Establishment and Documentation: Set up the IQAC and document its policies, procedures, and objectives.

Self-Assessment: Conduct a comprehensive self-assessment of the institution's existing quality parameters.

Capacity Building: Organize workshops, seminars, and training programs to enhance the skills and knowledge of faculty and staff in areas related to quality assurance.

Feedback Mechanism: Implement a robust feedback mechanism to gather inputs from students, faculty, and other stakeholders for immediate improvements.

Review of Courses and Curriculum: Evaluate and update courses and curriculum to align with industry trends and academic advancements.

Quality Assurance Policies: Develop and implement quality assurance policies that focus on key areas such as teaching, research, infrastructure, and student support services.

To develop an action plan for the academic year.

To introduce need based academic programmes including add on and certificate programmes.

To promote more MOUs and Linkages for the overall development of the students and quality excellence

To improve placements along with development of necessary skills required for the advocacy

To involve alumni in the process of all-round development of the students and the University

To upgrade the faculty competency with the use of ICT for the effective teaching and learning

# Long Term Goals

- To develop quality systems for conscious, consistent and catalytic programmed action to improve the academic and administrative performance of the College.
- To promote measures towards quality enhancement through internationalization of quality culture in academic administrative and financial functioning and institutionalization of best practices.
- To strengthen collaborations with foreign universities
- To promote innovation incubation research and entrepreneur (IIRE) culture
- Strengthen academic infrastructure to facilitate quality education
- Augmentation of physical facilities in the campus i.e. Smart Class rooms, State of the art Laboratory & equipment, E-Learning facilities etc.
- Enrichment of library and various digital learning resources.
- Resources automation & Access (24X 7)
- Learning Management System
- Use of ICT for 360-degree Feedback
- Ensuring good governance and leadership development by establishing transparent, fair and accountable systems
- Financial Planning and resource mobilisation
- Implementing and monitoring the Quality Management Systems
- Establishment of a sound mechanism to ensure a progressive career plan for every student

# We Will

- Become a University of Repute (UoR) and a leading technological university in the nearby region ranked in the national top 100 in all disciplines.
- Be a University that is sought for national and international collaborations leading to exchange of students and faculty and joint degree programmes.
- Establish a track record in creating innovative technologies to meet the industrial challenges.
- Become known in the northern region of India firstly for transformational technologies that impact lives of people
- Be a model campus in terms of sustainability, usage of energy and recycling of materials.
- Be a University to Implement digital learning technologies and platforms to enhance the overall learning experience and prepare students for the digital age.
- Actively mentor and assist faculty and staff to grow in their careers, set goals for themselves and outperform them.





UNIVERSITY OF  
**OPPORTUNITIES**



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