Centurion University
Shaping Lives...
Empowering Communities...

CENTURION UNIVERSITY
ODISHA

NAAC A+

CONSPECTUS

Co-Creating opportunities

SCHOOL OF FISHERIES



Centurion
UNIVERSITY
Shaping Lives...
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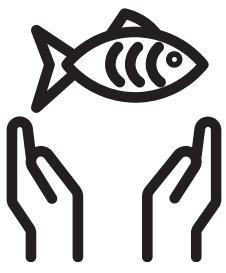
CENTURION
UNIVERSITY
ODISHA

conspectus

Co-Creating opportunities

SCHOOL OF FISHERIES



Centurion University
Shaping Lives...
Empowering Communities...

NAAC A+

CHANGE

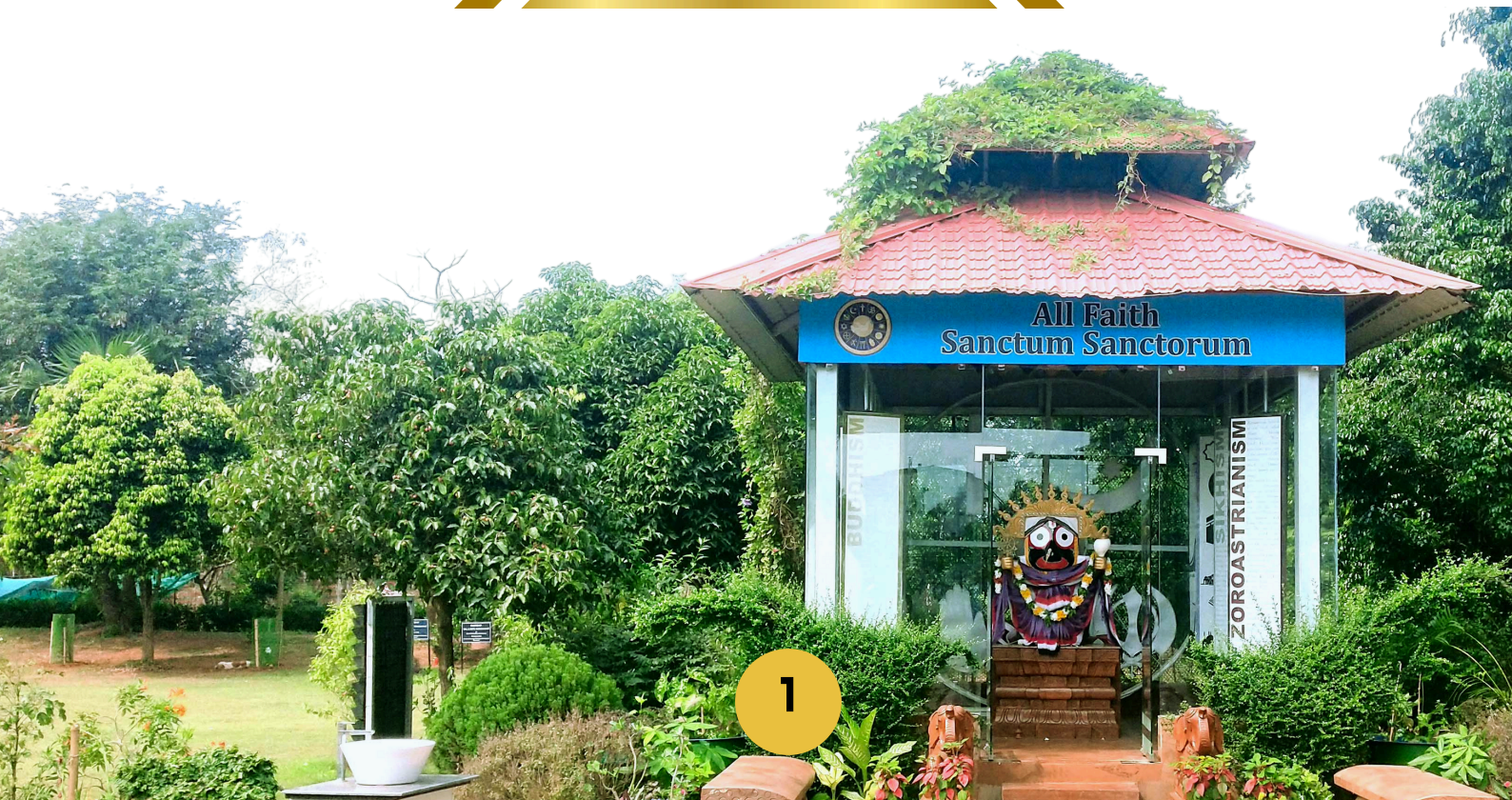
Change the world – The university and our students must transform societies – change begins with us.

EXPERIENCE

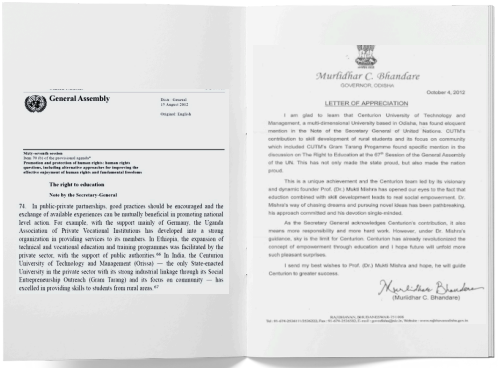
Experience the world – The perfect balance of knowledge and skills is the key to making a real difference.

LEARN

Learn the world – Lifelong learning is an extension of classrooms, books, and theories.



WHY CENTURION UNIVERSITY IS THE BEST IN THE SKILLING ECOSYSTEM


General Assembly

Murlidhar C. Bhandare

LETTER OF APPRECIATION

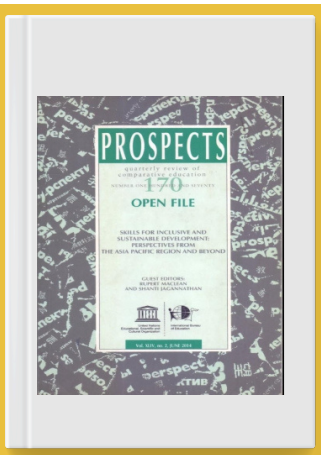
The right to education

Note by the Secretary-General

UN RECOGNITION

Centurion University cited prominently by name – which is a rarity – in the UN General Assembly Report by the Secretary General on Right to Education, for the University's unique education model.

UNESCO CASE STUDY



Recognized in the UNESCO Publication for its unique and scalable skill training education model.

SKILL INTEGRATED HIGHER EDUCATION

Skill India
कौशल भारत-कुशल भारत



Centurion University lauded for its unique and exceptional model in skill integrated higher education in the **Report of the Sub-Group of the Chief Ministers on Skill Development**

STATE FORWARD

SF REPORT NITI AAYOG

Centurion University is the **ONLY University** mentioned in the '**Best Practices of Our States**' **SF Report of NITI Aayog**

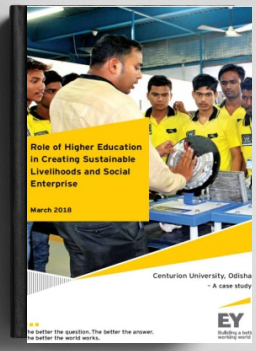
"I am trying to create a concept of competitive cooperative federalism so that there is competition among the State Governments in so far as their economic growth is concerned."

- Shri Narendra Modi
Hon'ble Prime Minister of India





WHY CENTURION UNIVERSITY IS THE BEST IN THE SKILLING ECOSYSTEM



Centurion University cited prominently by name – which is a rarity – in the UN General Assembly Report by the Secretary General on Right to Education, for the University's unique education model.

ERNST & YOUNG REPORT CASE STUDY



BRITISH COUNCIL REPORT MENTION

Centurion University is the ONLY University mentioned in the British Council Report on, 'Social Enterprise in a Global Context

WORLD BANK RECOGNITION



The World Bank highlights the uniqueness of Centurion University in terms of its skill-integrated higher education model.

Centurion University is the ONLY University privileged to represent the Skills & Higher Education Sector on the 'World Skill Day' to be part of the Launch of the National Skills Development Mission by the Hon'ble Prime Minister, Mr Narendra Modi, where most of the Chief Ministers and Cabinet Ministers were present

RECOGNITION BY MSDE & NSDC

REC

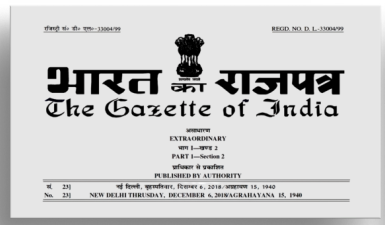




WHY CENTURION UNIVERSITY IS THE BEST IN THE SKILLING ECOSYSTEM

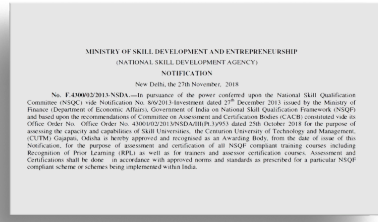
Centurion University is the FIRST university in India to be awarded the status of Assessment and Awarding Body pan-India by the Government of India.

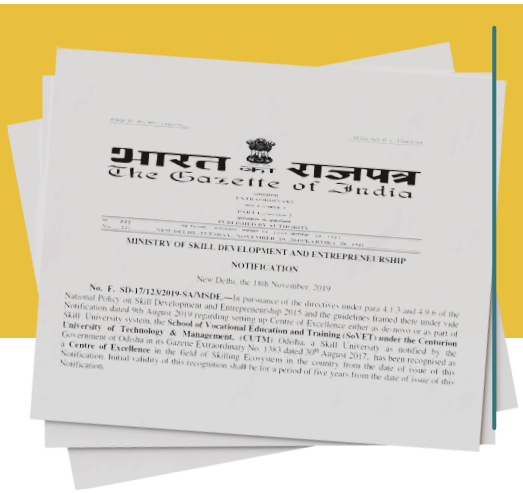
FIRST UNIVERSITY IN INDIA
***
ASSESSMENT AND AWARDING BODY


भारत का राजपत्र
The Gazette of India

EXTRAORDINARY
PART I—Section 2
PUBLISHED BY AUTHORITY

NEW DELHI THURSDAY, DECEMBER 6, 2018/AGRAHAYANA 15, 1940

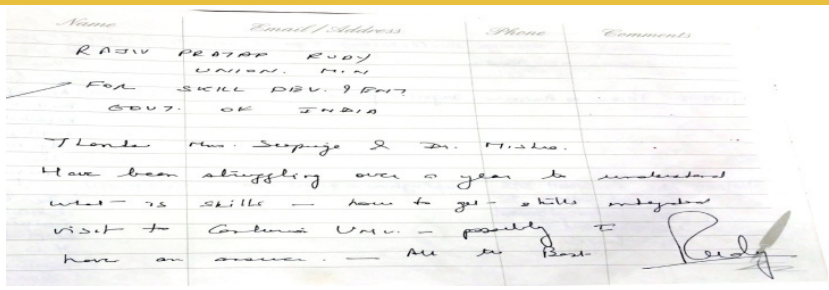

MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
(NATIONAL SKILL DEVELOPMENT AGENCY)
NOTIFICATION
New Delhi, the 27th November, 2018


भारत का राजपत्र
The Gazette of India

MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
NOTIFICATION
New Delhi, the 18th November, 2019

Notified as 'CENTRE OF EXCELLENCE' of Ministry of Skill Development and Entrepreneurship, Government of India.

CENTRE OF EXCELLENCE'


Name | Email / Address | Phone | Comments

RAJIV PRATAP RUDY
UNION. MIN
FOR SKILL DEV. & ENT
GOVT. OF INDIA

Thanks Mrs. Sapuja & Dr. Mishra.
Have been struggling over a year to understand what is skills — how to get skills integrated visit to Centurion Univ. — possibly to have an answer. — All the Best

Acknowledgment of Centurion University by the Hon'ble Union Minister of Skill Development as a model to reckon with!


Jason Clare MP
@JasonClareMP
An awesome surprise. Yesterday I met up with students from Wadeye in the NT, here in India studying textiles with Centurion University
@CUTMIndia

Centurion University, congratulated by the Minister of Education (Australia) for the extraordinary accomplishment and feat to successfully deliver long-term skill training course to the First-Nation community of Australia.





Centurion University is prominently acknowledged in the report of MoSDE, Government of India, on Marching Towards A Skilled India

CENTURION
GLIMPSES

15000+
STUDENTS

6
CAMPUSES
IN ODISHA

150+
SKILL
COURSES

16
SCHOOLS

50+
INDUSTRY
SPONSORED
LABS

22
RESEARCH
CENTRES

800+
FACULTY

250+
PATENTS

5500+
PUBLICATIONS

THE IDEAL CENTURION

7 PRINCIPLES

- Not afraid to be innovative- imaginative- creative, venture into unknown territories- A true lifelong adapter, learner and practitioner.
- In the know of what s/he does, both the “theory and practice” & “words and actions”.
- Practices cutting edge technologies, uses ALL available resources for learning through classroom, field, practice as well as internet & new tools.
- Positive, confident and is infectious in her/his enthusiasm and be willing to be a job creator than a job consumer.
- Has empathy for community, practices eco-friendly policies and capable of changing the environment around her/him.
- Believes in CHOICE, exercises CHOICE when given and is willing to be a team player and leader.
- To aspire to be a responsible and productive citizen to contribute in Nation Building and contribute in protecting and preserving the Mother Nature.



Centurion University
Shaping Lives... Empowering Communities...

NAAC A+

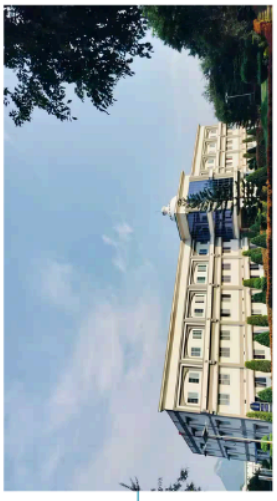
ABOUT THE UNIVERSITY

Centurion University of Technology and Management (CUTM) is a pioneering institution in India, recognized for its transformative approach to education that integrates academics, skill development, and hands-on learning. With multiple campuses across Odisha , the university is committed to fostering innovation, social entrepreneurship, and industry-aligned training.

Centurion University has been acknowledged by prestigious organizations such as the United Nations, NITI Aayog, British Council, and UNESCO for its unique education model that prioritizes experiential learning, employability, and community engagement. The institution boasts state-of-the-art laboratories, industry-sponsored research centers, incubation facilities, and smart classrooms, creating a dynamic ecosystem for learners. Beyond academics, CUTM promotes sustainable development, rural engagement, and technology-driven solutions, offering over 150+ skill courses, 16 schools, and 11 Centres of Excellence. Its vibrant campus life includes sports amenities, innovation hubs, and entrepreneurship cells, ensuring holistic student growth.

As India's first 'Skills University', Centurion University continues to lead in higher education by producing socially responsible, industry-ready professionals.

Rayagada



Chatrapur



Bhubaneswar



Balasore



Paralakhemundi



Bolangir



conspectus

SCHOOL OF FISHERIES

DIVE INTO EXCELLENCE

B.F.Sc. (Hons.)

A four-year Bachelors of Fisheries science program

M.F.Sc (Aquaculture)

Two-year post-graduation programme specialising in Aquaculture Discipline

ICAR Accredited





SoF
AT A GLANCE

The School of Fisheries, established in 2017 under CUTM at Paralakhemundi, Odisha, is accredited by the **Indian Council of Agricultural Research (ICAR)** for **four years B.F.Sc (Bachelor of Fisheries Science) programme**. The school focuses on educating students, promoting innovations, and advancing scientific fish farming. It empowers communities with modern practices, fosters research-driven aquaculture, and contributes to India's fish production by enhancing sustainability, productivity, and technology-driven growth in the fisheries

VISION

To create human resource wealth and sustainable livelihood opportunities for the people who depend on the fisheries sector.

MISSION

- To establish an institution of excellence in fisheries and aquaculture through education and research.
- To provide knowledge through basic and innovative teaching-learning and skill-oriented programmes.
- To achieve sustainable fish production for the stakeholders protecting the environment

PROGRAMMES OFFERED

SL NO	NAME OF THE PROGRAMME	CAMPUS
1	B.F. Sc (Hons.)	Paralakhemundi
2	M.F. Sc (Aquaculture)	Paralakhemundi

The School of Fisheries, Centurion University, is India's first private institution to receive ICAR accreditation for its B.F.Sc (Bachelor of Fisheries Science) program. In addition to the undergraduate degree, the school offers a postgraduate program in Aquaculture. These programs are meticulously designed to provide students with advanced knowledge, practical expertise, and research acumen, equipping them for impactful careers in fisheries and aquaculture

UNLOCK
YOUR
POTENTIAL





PROGRAMMES OVERVIEW

UG Programme

B.F.Sc (Hons.)
Duration: 4 Years
Eligibility:To be eligible for admission into B.F.Sc (Hons.), a student should have passed +2 Science examinations with biology as one subject with following per cent of marks in aggregate.
1. General Candidates: 50%
2. SC and ST: 45%
3. Qualified CUEE or Central/State Exams

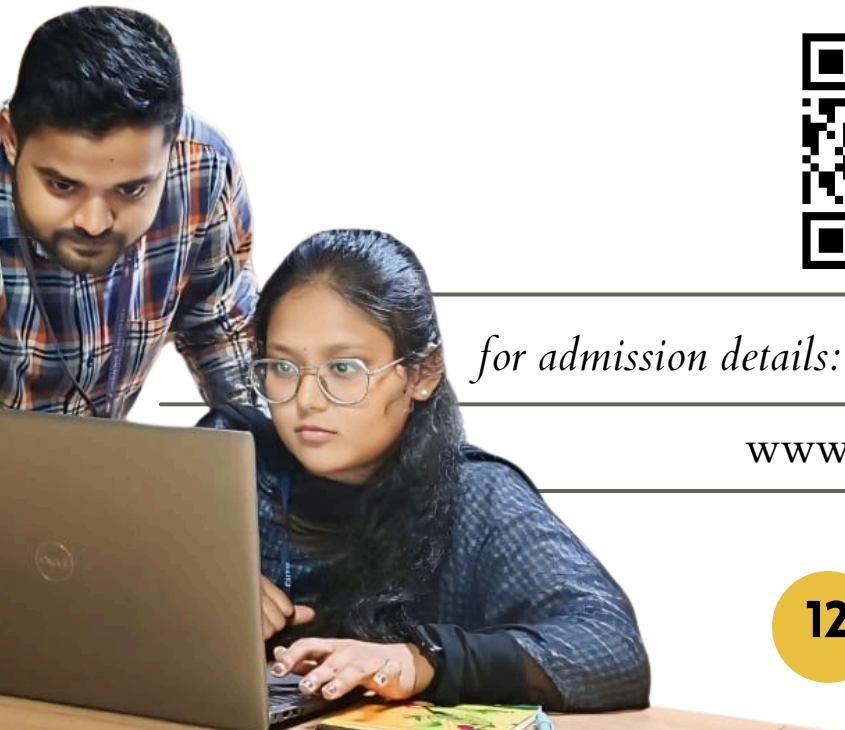
PG Programme

M.F.Sc (Aquaculture)
Duration: 2 years
Eligibility: The candidate should have passed the Bachelor of Fisheries Science (B.F.Sc) from any recognized university



ADMISSION PROCESS

Admission to the School of Fisheries at Centurion University is available through several entrance exams, including State Agricultural Universities (SAU), Central Agricultural Universities (CAU), AIEEA UG entrance by ICAR and Centurion University Entrance Examination (CUEE)



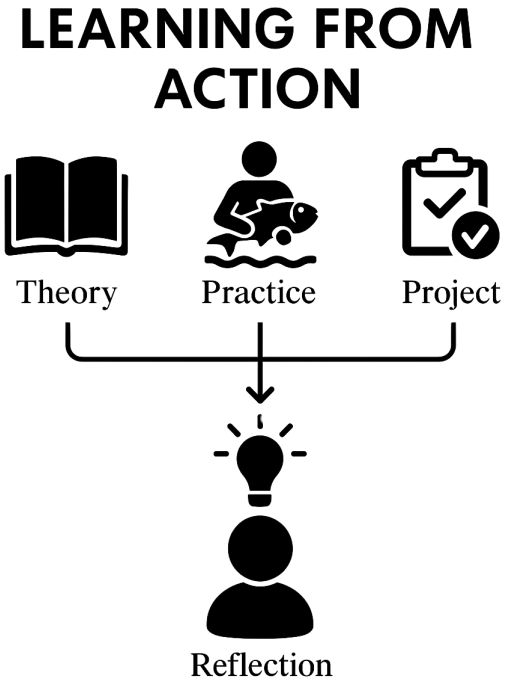
for admission details: scan qr code

www.cutm.ac.in



Learning from Action governs the fundamental ideology of Teaching-Learning at the School of Fisheries. With a unique approach of Theory-Practice-Project, learning at the school happens mostly in its live labs with an opportunity to reflect on learned theories, integrating domain-specific knowledge and skill-based learning to create empowered, critical thinkers and practical problem-solvers

UNDERSTANDING PEDAGOGY



EXPERIENTIAL LEARNING THROUGH ACTION

CRITICAL REFLECTION

IMPROVED ACTION

Equipped with this knowledge, they are ready to drive change and create a meaningful impact on the world.

REFLECTION

This diverse learning ecosystem fosters critical thinking and problem-solving, enabling students to address globally

ACTION

Students gain hands-on experience through eight laboratories (including two NABL-accredited labs) and 15 instructional units, exploring intensive aquaculture, sustainable fish farming, RAS, fish feed production, and value addition. Students READY Programme, enhance entrepreneurial skills and field expertise, preparing them for industry and grassroots innovations in fisheries

DIVE DEEP INTO KNOWLEDGE

SPLASH INTO ACTION

SCHOOL OF FISHERIES



UNIQUE LEARNING PEDAGOGY

LEARNING BY THE LAKE, THINKING BEYOND THE TANK.



DIVE DEEP INTO
KNOWLEDGE

TRACEABILITY OF LEARNING

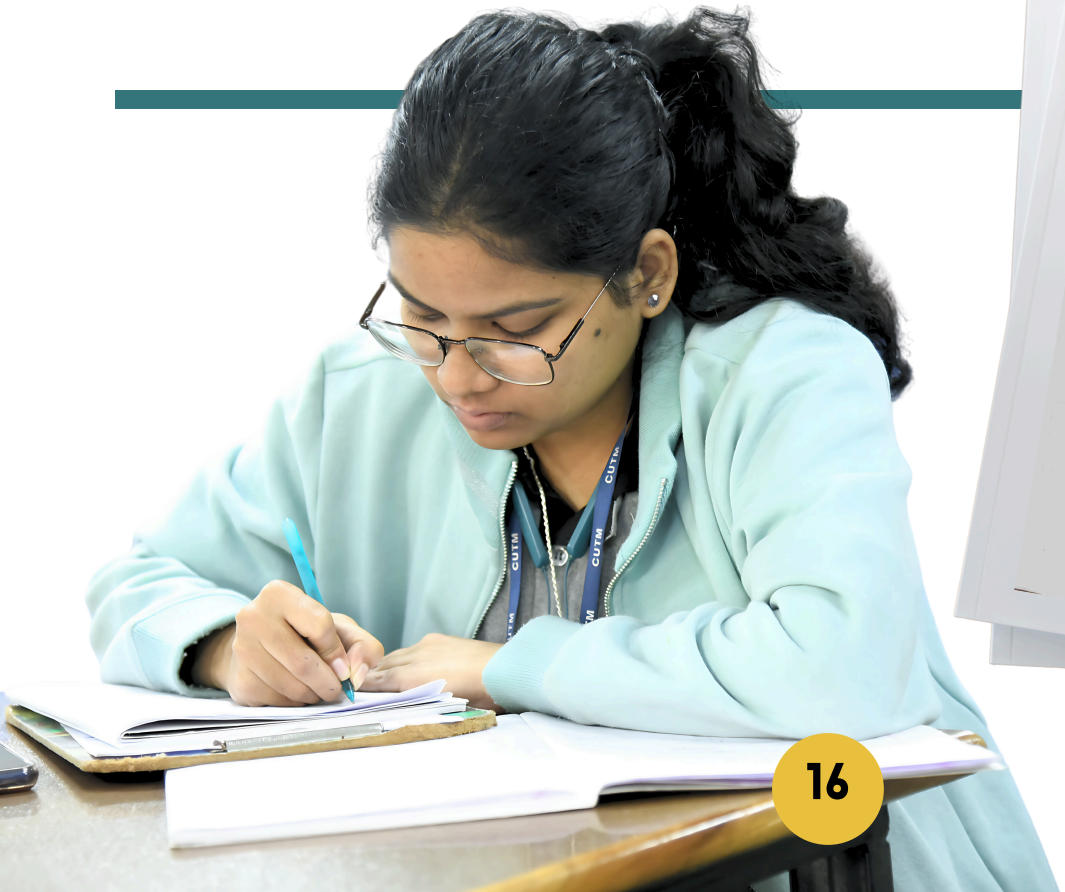
ASSESSMENTS REFLECT NOT ONLY KNOWLEDGE BUT ALSO THE APPLICATION AND PROGRESSION OF SKILLS.

Traceability of learning refers to the systematic process of monitoring, recording, and evaluating a student's academic and practical progress over time. It ensures transparency and accountability in education by documenting continuous assessments, practical work, and reflective learning.

Continuous evaluation through
Assignments
Presentatíons
Internal evaluations
Group discussions

Practical knowledge is assessed through hands-on experiments, field visits, and lab work

Students maintain learning records documenting the key takeaways from lectures, practical sessions and discussions




School: School of Fisheries, CUTM; Campus: Paralakhemundi; Academic Year: 2024-25
Subject Name: Anatomy and Biology of Shellfish; Semester: 5th; Program: UG; Branch: B.F.Sc.; Subject Code: FSRM-3104
Date: 03/09/24 Specialization: Fisheries Science
Applied and Action Learning
(Learning by Doing and Discovery)
Name of the Practical/ Experiment:
Study of the reproductive System of Shrimp
Materials/ Equipment:
- Dissecting microscope
- Forceps and dissecting scissors
- Petri dishes
- Dissection tray
- gloves
Procedure/ Demonstration/Diagram/Features/Flow chart:
Page No. 09

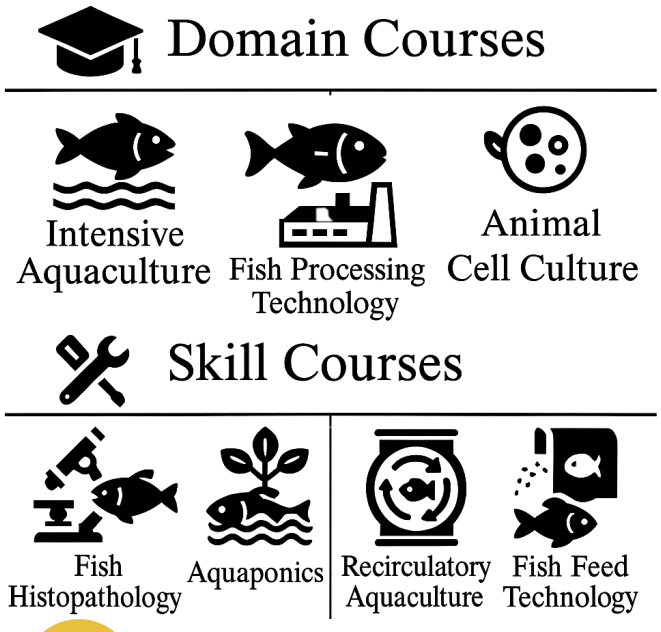


INTEGRATION OF DOMAIN AND SKILL COURSES

- **Domain Courses:** Provide in-depth theoretical knowledge in domains such as Intensive Aquaculture, Fish Processing Technology, and Animal Cell Culture, fostering systemic thinking to address challenges and opportunities in the fisheries and aquaculture sector.
- **Skill Courses:** Emphasize practical competencies in Fish Histopathology, Aquaponics, Recirculatory Aquaculture, and Fish Feed Technology, fostering entrepreneurial skills and ensuring holistic development and employability in the fisheries and aquaculture sector.

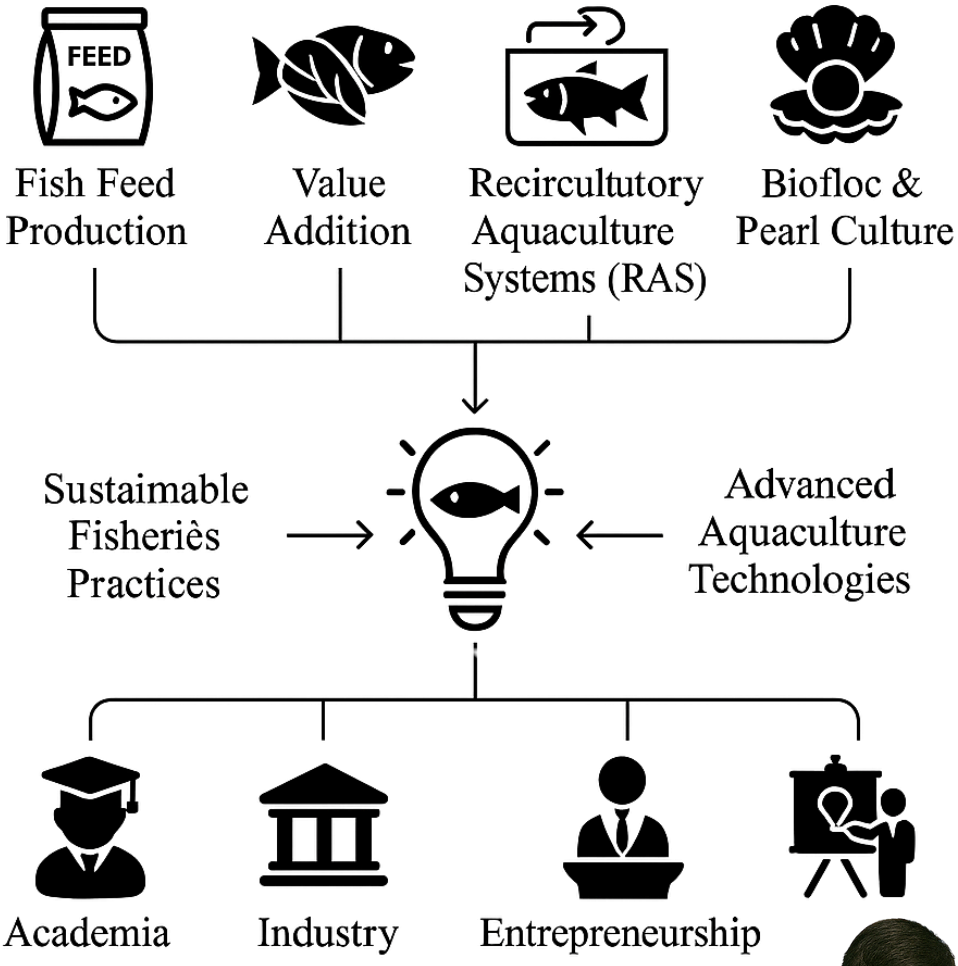
ENHANCED SKILL SET

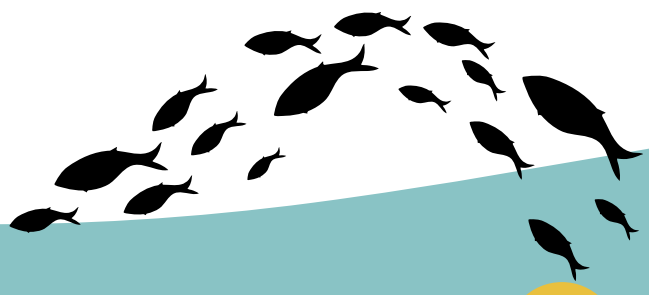
MULTIDISCIPLINARY PROFICIENCY



B.F.Sc Programme

Equips students with multidisciplinary skills through industry-driven domain courses and advanced aquaculture technologies.









SKILL COURSES

The university offers choice-based skill courses to equip students with practical expertise, entrepreneurial skills, and industry readiness. Learning follows a Project-Product-Production approach, where students design solutions, develop market-ready products, and scale them through production processes, fostering innovation, sustainability, and self-reliance.

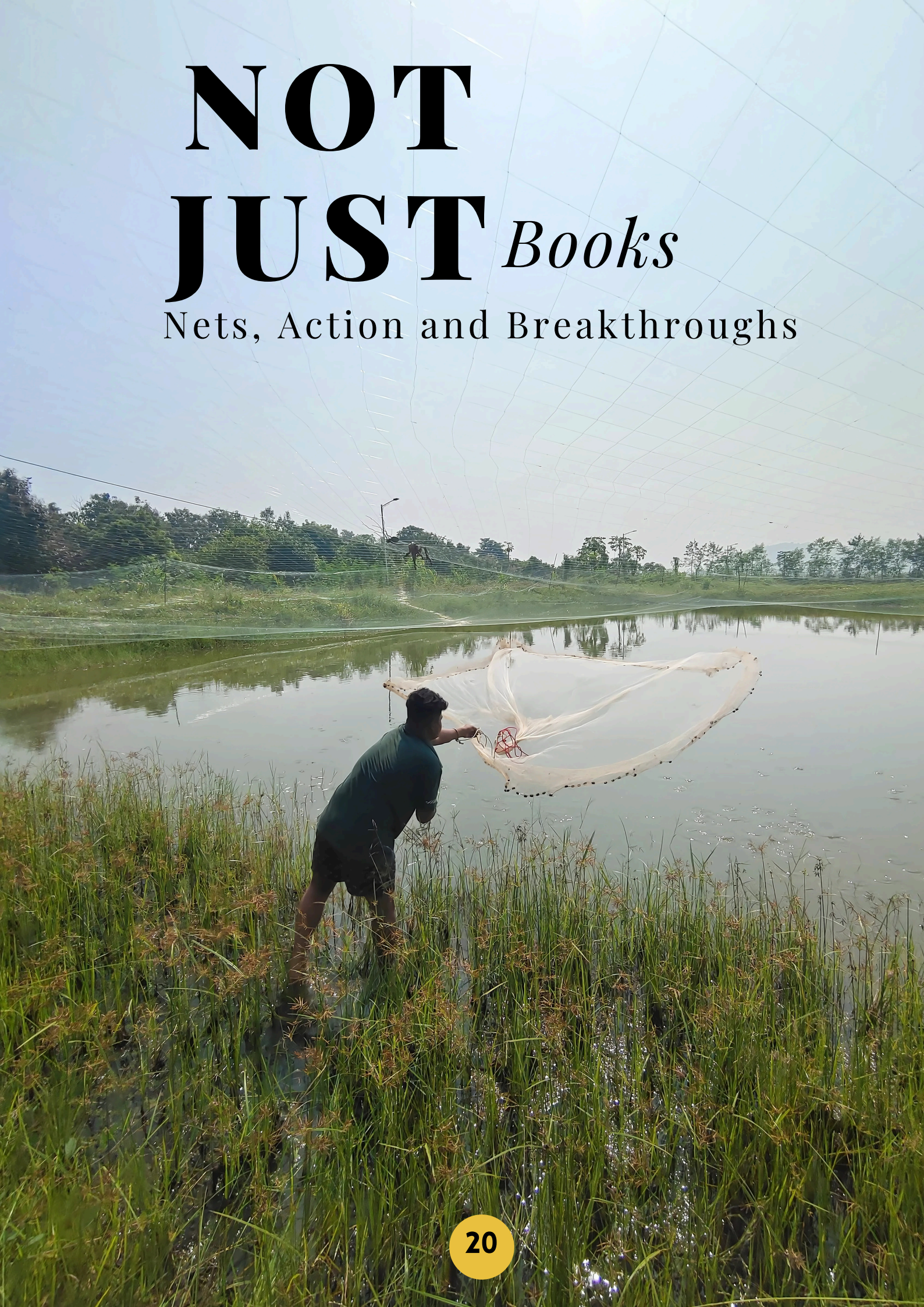
for details: scan qr code

www.cutm.ac.in

INDIA'S BEST SKILL UNIVERSITY

NOT JUST *Books*

Nets, Action and Breakthroughs



20

Innovations, Skill, and Sustainability

Integration of Cutting-Edge Technologies in Fisheries and Aquaculture

The B.F.Sc. programme integrates cutting-edge technologies like the Internet of Things (IoT), Artificial Intelligence (AI) and Drone Technologies to revolutionize traditional fish farming practices. This innovative approach equips students with the skills to implement smart farming techniques, enhance productivity, and address challenges in fisheries and aquaculture through technology-driven solutions





EXPLORING AQUATIC WONDERS

The museum features a diverse collection of over 200 species of pelagic and demersal fishes, shellfish and other aquatic organisms, meticulously preserved and classified. This unique repository has been curated and enriched with specimens sourced from the Indian coastline, offering valuable insights into the region's aquatic biodiversity

SHOWCASING THE RICHNESS OF AQUATIC LIFE -FROM RIVERS TO REEFS – EXPLORE IT ALL!

for admission details: scan qr code

www.cutm.ac.in

HANDS-ON TRAINING
ENTREPRENEURIAL FOCUS



LEARNING THROUGH LIVE LABS

ensuring that graduates are industry-ready and capable of driving innovation in the agricultural sector

The Fisheries Graduate Programme focuses on "Learning through Live Labs," through 15 Experiential Learning Program (AELP) Units, combining theoretical learning with practical experience in aquaculture, fish processing, and allied subjects in fisheries sciences. These units bridge theoretical knowledge with real-world applications, empowering students to become skilled professionals and entrepreneurs in fisheries sectors.

RESEARCH FACILITIES

INTEGRATED WITH 4 RESEARCH CENTERS

The school works in integration with Four cutting-edge research centres, incorporating the latest tools and techniques into traditional knowledge to address industrial challenges and promote eco-friendly solutions in fisheries

. These centers include:

1. **Centre for Aquaculture and Fish Processing Technology:** Advancing innovation, research and skills in sustainable aquaculture and fish processing for industry excellence.
2. **Centre for Drones:** Unmanned, technology-driven solutions for advancing high-tech fisheries and aquaculture.
3. **Centre for Smart Infrastructure:** focusing on IoT applications and automation to enhance aquaculture productivity.
4. **Centre for Date Sciences and Machine Learning:** App development and back-end support for farm management with real-time monitoring, and data-driven lecision-making for productivity and efficiency.





ADVANCING RESEARCH, PUBLICATION, AND ACADEMIC EXCELLENCE

With 120+ research publications in Scopus and Web of Science (WoS) indexed journals and books the school actively contributes to advancements in innovative fishing, farmer's livelihood development and climate-smart aquaculture

SoF students have excelled in various academic and professional arenas, securing 18+ awards at national conferences and events. These accolades highlight their dedication, technical proficiency, and ability to innovate in the field of fisheries and aquaculture

These accomplishments reflect the school's strong emphasis on quality education, skill development and real-world impact, further reinforcing Centurion University's commitment to shaping future leaders in fisheries science

120+

PUBLICATIONS IN

ELSEVIER Scopus®

WEB OF SCIENCE™

INDEXED JOURNAL



THE SCHOOL HAS TRAINED 500+ FARMERS OF 5 ADOPTED VILLAGES

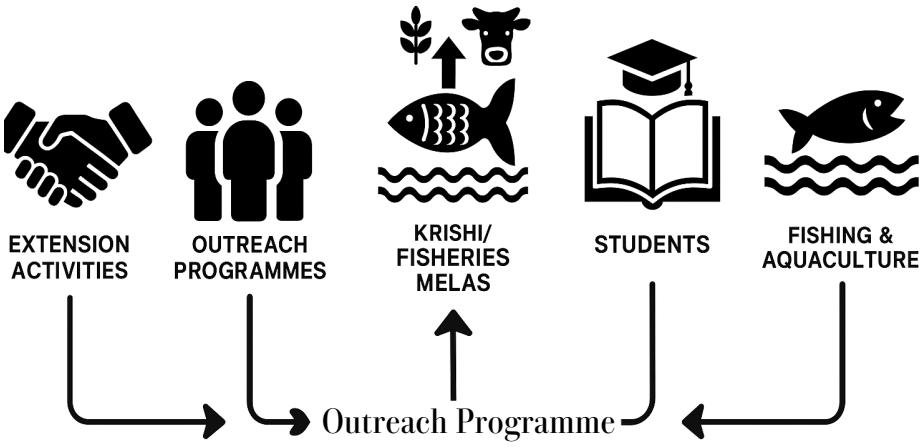
EXTENSION OUTREACH

Extension activities and outreach programmes are one of the three prime pillars of the School of Fisheries, the other two being academics and research. The school actively participates in various Krishi/Fisheries Melas, organised either on its own or by the Department of Agriculture/Fisheries. As a part of the curriculum, final year students also extend a hand of help vide their knowledge to the nearby villages to solve the problems related to fishing and aquaculture

OPPORTUNITY TO LEARN FROM THE WORLD

FIVE ADOPTED VILLAGES

BARLANDA, THOTAGUMUDA, PARASURAMPUR, JHAMIGUDA, ROUTHPUR OF GAJAPATI DISTRICT OF ODISHA



500+

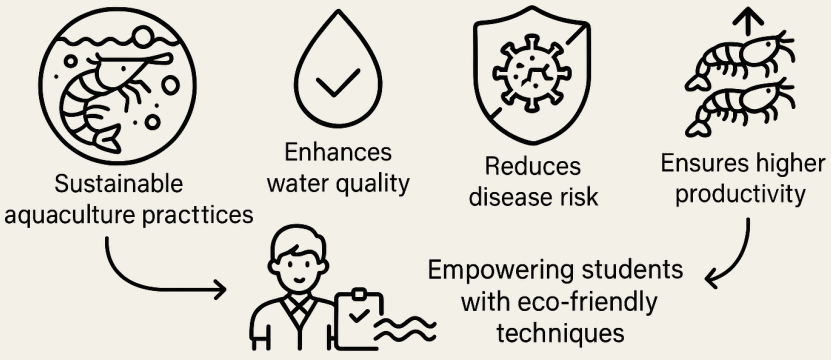
UNITING COMMUNITIES THROUGH BLUE ECONOMY ACTION

FISH FARMERS TRAINED



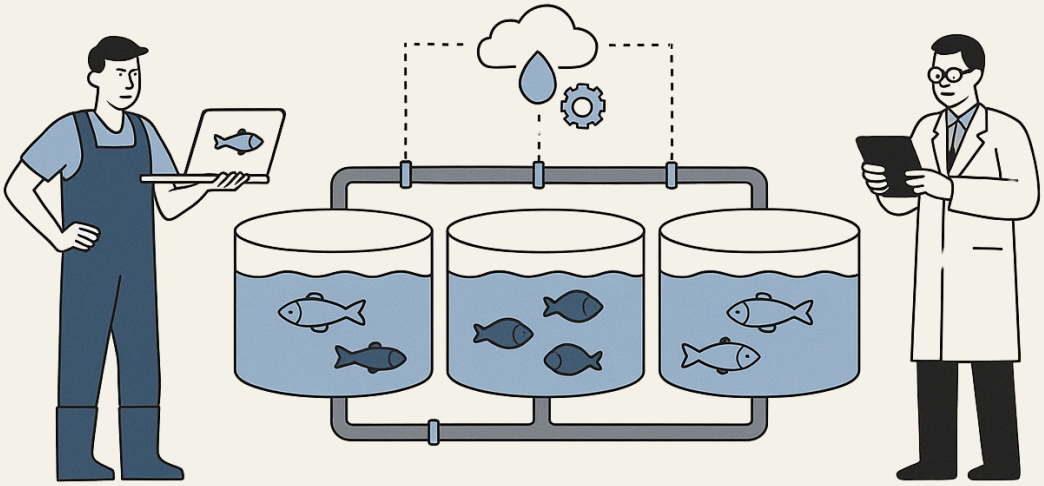


LOW-SALINITY SHRIMP CULTURE IN BIOFLOC SYSTEM



Low-salinity Shrimp Culture in Biofloc System', promoting sustainable aquaculture practices, improving sustemic aquaculture practices

Integrating Fisheries with Modern Tech at SoF



FULLY AUTOMATED RECIRCULATORY AQUACULTURE SYSTEM (RAS)

- Hands-on Experience
- Sustainable Fish Farming
- Innovation & Intensification
- IoT-Driven Water Quality Monitoring
- Sustainable Fish Farming
- Industry-Ready Skills
- Resource Optimisation





Small Fish Feed Mill

The "Small Fish Feed Mill" at the School of Fisheries, Centurion University, with a capacity of 100–500 kg/hour/day is a compact yet innovative unit empowering students with hands-on experience in sustainable aquafeed production. It supports research, skill development, and entrepreneurship by blending technology with practicality—enhancing feed quality, reducing costs, and promoting self-reliance in the aquaculture sector.





Cutting-Edge TECHNOLOGIES

FOOD TESTING LAB: ENSURING QUALITY AND SAFETY



Equipped with instruments such as **LC-MS/MS** for detecting pesticide residues, **ICP-MS** for analyzing heavy metals, **GC-MS** for identifying volatile compounds, and **HPLC** for quality analysis of bioactive components, the lab plays a vital role in research, food certification, and agricultural, Fisheries product analysis.

BEST WISHES AND REGARDS TO THE SCHOOL. I AM SURE WITH THE PRESENCE OF ABLE AND YOUNG FACULTY IN THE SCHOOL OF FISHERIES, THE CENTURIAN UNIVERSITY WILL HAVE A CLEAR DIRECTION OF WHOLESOME DEVELOPMENT



DR. JOYKRUSHNA JENA

Deputy Director General
(Fisheries Science)
ICAR, New Delhi

DR. BIMAL PRASANA MOHANTY

Assistant Director General (Inland Fisheries),
ICAR, New Delhi

SCHOOL OF FISHERIES, CENTURION UNIVERSITY IS A SHINING EXAMPLE OF EXCELLENCE IN FISHERY EDUCATION WITH ITS CUTTING-EDGE INFRASTRUCTURE, THE SCHOOL IS WELL-FACILITATED WITH LABORATORIES IN VARIOUS DISCIPLINES OF FISHERIES SCIENCE MAKING THE LEARNING PROCESS THOROUGH, AND PRACTICAL WHILE AIDING IN THE DEVELOPMENT OF QUALITY HUMAN RESOURCES FOR INDIA'S SUSTAINABLE AQUACULTURE INDUSTRY



DR. RAVISHANKAR C.N

Director and Vice-Chancellor
ICAR-Central Institute of Fisheries Education
(ICAR-CIFE), Mumbai

IT IS A DELIGHT TO SEE THE SCHOOL OF FISHERIES FOSTERING FUTURE LEADERS IN FISHERIES SCIENCE. THEIR COMMITMENT TO ACADEMIC EXCELLENCE, RESEARCH, AND INNOVATION IS WORTHY OF APPRECIATION. I WISH THEM ALL THE BEST FOR FURTHER SUCCESS IN EMPOWERING STUDENTS AND HELPING IN THE SUSTAINABLE DEVELOPMENT OF THE FISHERIES INDUSTRY



DR. JOE K. KIZHAKUDAN

Principal Scientist and Head,
Visakhapatnam Regional Centre, ICAR-CMFRI

IT IS DELIGHTFUL TO APPLAUD THE SCHOOL OF FISHERIES FOR ITS EFFORTS TOWARD ACADEMIC PROFICIENCY AND SKILL ATTAINMENT. THE ATTENTION BY THE SCHOOL ON INNOVATION AND PRACTICE-BASED EDUCATION MAKES STUDENTS ADEQUATELY PREPARED TO DEAL WITH ACTUAL WORLD ISSUES IN THE FIELD OF FISHERIES. I PRAISE THE FACULTY MEMBERS AND STUDENTS FOR THEIR ONGOING ENDEAVOURS IN FURTHER DEVELOPING THE INDUSTRY



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CREATING OPPORTUNITIES TOGETHER

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