

ANNUAL REPORT

2022-23



Board of Governors

| Sl. No. | Name | Designation |
|---------|--|---------------------------------------|
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| 4 | Prof. Supriya Pattanayak, Vice Chancellor, CUTM | Member |
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| 12 | Dr. C.R. Rao | Trust Nominee |
| 13 | Prof. Anita Patra, Registrar, CUTM | Ex Officio Member Secretary |

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List of Abbreviations

| | | |
|--|---|---|
| APSSDC - Andhra Pradesh State Skill Development Corporation | DDUGKY - Deen Dayal Upadhyaya Grameen Kaushalya Yojana | IIW - International Institute of Welding |
| APEDA - Agricultural and Processed Food Products Export Development Authority | FDP - Faculty Development Programme | |
| BAIF - Bharatiya Agro Industries Foundation | GTIDS - Gram Tarang Inclusive Development Services | ICMSEA - International Conference on Materials Science and Engineering Application |
| BCKV - Bidhan Chandra Krishi Viswavidyalaya | GTETS - Gram Tarang Employability Training Services | LMSC - Last Mile Supply Company |
| BEML - Bharat Earth Movers Ltd | GTF - Gram Tarang Foods | MoU - Memorandum of Understanding |
| BITS - Birla Institute of Technology and Science | HPCL - Hindustan Petroleum Corporation Ltd | MSSSoA - M.S. Swaminathan School of Agriculture |
| CCD - Café Coffee Day | HAL - Hindustan Aeronautics Ltd | MCSP - Maternal and Child Survival Program |
| CTTC - Central Tool room & Training Centre | IFFCO - Indian Farmers Fertiliser Cooperative | NALCO - National Aluminium Corporation Ltd |
| CAD/CAM - Computer Aided Design/Manufacturing | IGKV - Indira Gandhi Krishi Vishwavidyalaya | NBFC - Non Banking Finance Company |
| CUCREE - Centurion University Centre for Renewable Energy & Environment | IKS - Institute of Knowledge Society | NSIC - National Small Industries Corporation |
| CSR - Corporate Social Responsibility | IJCR - International Journal of Current Research | NCC - National Cadet Corp |
| CUTM - Centurion University of Technology & Management | IEEE - Institute of Electrical and Electronics Engineer | NSDC - National Skill Development Corporation |
| CIPET - Central Institute of Plastics Engineering & Technology | IOSR - International Organization of Scientific Research | NSS - National Service Scheme |

OPHC- Odisha Police Housing Corporation

OPTCL- Odisha Power Transmission Corporation Ltd

PGCIL- Power Grid Corporation of India Ltd

PMKVY- Pradhan Mantri Kausal Vikas Yojana

REC- Rural Electrification Corporation

RB- Ratnakar Bank

SoM- School of Management

SoPAHS- School of Paramedics & Allied Health Sciences

SoPLS- School of Pharmacy & Life Sciences

SoVET- School of Vocational Education & Training

SBI- State Bank of India

SoAS- School of Applied Sciences

SoET- School of Engineering & Technology

STADPRO- Structural Analysis And Designing Program

SAIL- Steel Authority of India Ltd

SIET- Shambhunath Institute of Engineering and Technology

UMBC- Urban Micro Business Centre

UNESCO- The United Nations Educational, Scientific and Cultural Organization

UGC- University Grants Commission

VSSUT- Veer Surendra Sai University of Technology

WISTA- Work Integrated Skill Training and Apprenticeship

XIMB- Xavier Institute of Management

YRC- Youth Red Cross





VC's Note

As the Vice Chancellor of Centurion University of Technology & Management (CUTM), Odisha, I am privileged to present the Annual Report, covering the period from April 2022 to March 2023. In line with the University's motto of "*Shaping Lives and Empowering Communities*", we strived relentlessly to foster our long-term commitment towards nation building with an unflinching adherence to universal human values.

Centurion University, I would like to share the trajectory of the University. At the outset, I would like to affirm Centurion Universities commitment to the United Nations Sustainable Development Goals 2030 and the National Education Policy 2020. Centurion University serves students, mainly, from Odisha and neighbouring states like Jharkhand, Bihar, West Bengal and Andhra Pradesh through its four campuses located at Paralakhemundi, Bhubaneswar, Rayagada and Bolangir. Focused on tribal, under-privileged and rural areas, the aim is to empower students with quality education for their employability and selfreliance, thereby contributing to reducing inequality in society.

The degree, diploma and certificate courses of the University are designed to educate students about developing sustainable solutions to real life problems for a better future. The classroom teaching is augmented by the hands-on, relevant field work. At present, we offer 84 Certificate courses, 30 Diploma courses, 33 under-graduate courses, 31 post-graduate courses and Doctoral program through 11 schools. Due to innovative curriculum, the Centurion University received the Outlook-ICare Ranking of 14. This year also our faculty were successful in securing two SERB projects from Department of Science and Technology and one from Department of Biotechnology. In four constituent campuses across Odisha, at Paralakhemundi, Bhubaneswar, Rayagada and Bolangir with a student strength of 12143 by end of 2022.

We believe in inclusiveness of population from all sectors. Thus, the under privileged students are supported through various scholarships. Few new courses are developed to train and empower the disadvantaged communities from remote tribal areas, which in turn facilitate the basic health care to the population living in remote areas. Krishi Mela in collaboration with Krishi Jagaran has become an annual affair attended by over 5000 farmers. Rural Haats are organised on a regular basis. Farmers' training is organized to educate them about new, affordable and sustainable pathways of agriculture and aquaculture, which leads to self-reliance and economic upliftment of farmers. In partnership with Essilor, free eye checks and spectacles are provided to people living below the poverty line. To achieve the intended objectives, the Centurion University established partnership and collaboration with various international universities, especially Australian Universities, national government, state governments, industries, research and development entities, non-governmental organizations and local communities. The University conducted Future Nexus Engagement wherein Ambassadors of 48 African Nations and four Joint Secretaries (of the four African Regions), Govt of India attended and since then several of them visited our campuses. The Vice Chancellor also visited Morocco and Gabon and this has led to the signing of 4 MoUs with various African Universities and providing consultancy to the Gabon Agri-SEZ. At present, 107 MoUs out of 236 are active and are regularly reviewed. During the past year, the University signed MoUs with 21 institutions.

I am sure with a solid foundation in place we are better prepared to meet the expectations of different stakeholders.

Prof. Supriya Pattanayak

1. Overview

Centurion University, in its nine plus years of existence, with UGC 12B status and NAAC A grade offers Certificate, Diploma, Under-graduate, Post-graduate and Doctoral programs through Schools of Agriculture, Applied Sciences, Engineering and Technology, Media and Communication, Paramedics and Allied Health Sciences, Pharmacy and Life Sciences, Forensic Sciences, Agriculture and Bio Engineering, Disaster Management, Fisheries, and Vocational Education and Training located in six different campuses across Odisha, at Parlakhemundi, Bhubaneswar, Balangir, Rayagada, Chatrapur and Gopalpur. It has more than 6000 students in graduate and postgraduate programs and over 15000 students in vocational programs. It has residential facility for 80% students and 50% faculty and staff. The University has well equipped learning laboratories, workshops, library, sports and health facilities.

Since the school education in the region was and still is of poor quality and there were large scale school dropouts, it became the first partner of National Skill Development Corporation (NSDC), Government of India, with a focus on Skills Development and Livelihood linked Education. Under the Innovation Agriculture project of NSDC, Centurion University is working in 9 districts of tribal dominated South Odisha and 3 districts of North Coastal AP. As of now Centurion has trained 2725 farmers and 124 Community Resource Persons. Project Atal which envisions doubling of farmers income by training and certification of 1,00,000 small and marginal farmers in 200 blocks of Odisha has covered 70,000 farmers as on date. Centurion University and LMDC provides end to end support to farmers for producing RNR (15048) controlled sugar variety of rice for doubling their income. o. Centurion University along with Gram Tarang has made an agreement with SEEDAP to train 3000 farmers in Srikakulam, Vizianagram and Vishakapatnam. It has covered 900 farmers as on date.

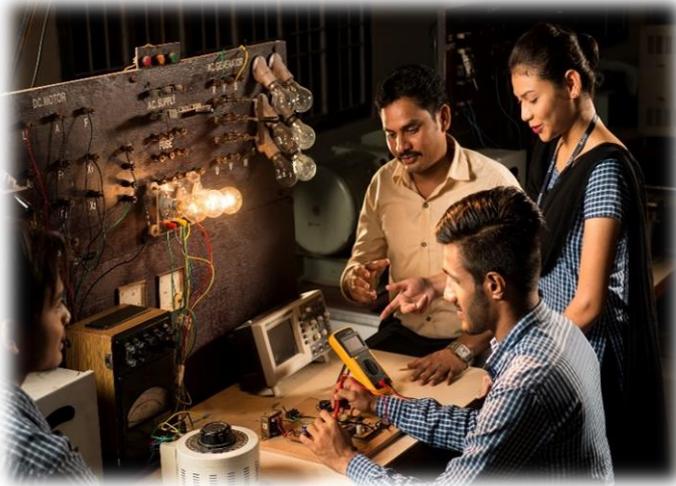
The University is organized in the form of Schools, such as M S Swaminathan School of Agriculture (MSSSoA), School of Applied Sciences (SoAS), School of Engineering and Technology (SoET), School of Management (SoM), School of Vocational Education & Training (SoVET), School of Pharmacy and Life Sciences (SoPLS), School of Media & Communication (SoMC), School of Paramedics & Allied Health Sciences (SoPAHS), Institute of Knowledge Society (IKS), and the Centurion University Centre for Renewable Energy and Environment (CUCREE).

CUTM believes in dynamic engagement with its stake holders and communities at large. To achieve this purpose, the University has incubated many social enterprises, social entrepreneurs, and outreach entities under the umbrella of Gram Tarang. Its incubated organizations work in the area of skills, financial inclusion, urban micro-business services, entrepreneurship, tribal development, food processing and agriculture. It includes Gram Tarang Employability Training Services (GTETS), Gram Tarang Inclusive Development Services (GTIDS), and Gram Tarang Foods (GTF), Urban Micro-Business Centre (UMBC), Last Mile Supply Company (LMSC) and Ratnakar Bank (RB). GTETS, GTIDS, GTF and LMSC are registered as for-profit private company under Company Act. UMBC and LMSC are registered as Section 8, not-for-profit Company. RB is registered as a Non-Banking Finance Company (NBFC). The reaches of these organisations span across India and they provide learning labs to the students and faculty of the University.

1.1 New Programmes

- Bachelor of Management Studies (Airlines and Airport Management)
- Bachelor of Business Administration (Healthcare Management)
- M.Sc. (Agri.) Entomology,
- Plant Pathology,
- Soil Science & Seed Science Technology
- Master of Public Health
- B.Sc. Medical Record Technology
- B.Sc. Marine Operations
- MBA in Nautical Science
- Bachelor of Veterinary Science
- BA LLB
- BBA LLB
- LLM





2. Schools, Departments and Academic Programmes



2.1 M S Swaminathan School of Agriculture

M.S. Swaminathan School of Agriculture was established in the year 2013 at Paralakhemundi Campus. Presently the School has 187 acre of field labs for experiment in farm. It offers courses such as B.Sc. (Hons) in Agriculture, B.Tech. In Agriculture and M.Sc. in Agriculture, besides undertaking various training, research and consulting activities. It has eight departments.

2.1.2 Department of Agronomy

Agronomy Department of the M.S. Swaminathan School of Agriculture was established in the year 2013. The Department offers courses at undergraduate and postgraduate level of agricultural science and technology. The Department undertakes teaching, training, research and consulting in the areas of organic farming, integrated nutrient management, and integrated weed management, varietal performance studies of different crops, intercropping system and introduction of new crops. Teaching and learning system is geared towards experiential and hands on mode rather than being class room and blackboard based.

2.1.3 Department of Horticulture

Horticulture Department of the M.S. Swaminathan School of Agriculture was established in 2013. The Department offers five courses in B. Sc. (Ag.), such as Production Technology of Vegetables; Production Technology of Fruits; Production Technology of Flowers; Production Technology of Spices, Aromatic, Medicinal and Plantation Crops; and Post-harvest Management and Value Addition of Fruits and Vegetables. The department undertakes teaching, training, research and consulting in the areas of vocational training, star program for farmers, etc. The department possesses a well-equipped laboratory for under-graduate students.

2.1.4 Department of Agricultural Extension

The Department of Agricultural Extension under M. S. Swaminathan School of Agriculture was established during 2013. Since then, it has been playing an important role towards progression of extension science with specific reference to research, education and training. The field of extension now encompasses a wider range of communication and learning activities organized for tribal/rural people from different parts of Orissa and Andhra Pradesh states to deliver the knowledge on various disciplines including agriculture, agricultural marketing and business studies. The basic focus of Extension has moved from technology dissemination to agricultural enterprise solution and entrepreneurship development.

2.1.5 Department of Entomology

The Department of Entomology was established in 2013 under the umbrella of M. S. Swaminathan School of Agriculture. The Department offers courses on Entomology to undergraduate and post graduate students and allied activities along with teaching by highly qualified, experienced and devoted teaching staff members.

2.1.6 Department of Genetics & Plant Breeding

The Department was established in 2013 under M. S. Swaminathan School of Agriculture at Centurion University of Technology and Management. In addition, the department is entrusted to laboratory work, research, extension and allied activities.

2.1.7 Department of Crop Physiology, Bio-Technology & Seed Science

Biotechnology encompasses a number of tools and elements of conventional breeding techniques, crop physiology, seed science technology, bioinformatics, microbiology, molecular genetics, biochemistry and molecular biology. Biotechnology defines (or parts of organisms) to make or modify a product, improve plants, trees or animals or develop microorganisms for specific uses. In this direction, the Department of Crop Physiology, Biotechnology and Seed Science in M. S. Swaminathan School of Agriculture has focused and equipped as state-of-the-art laboratories that mentor the students to inculcate hands on experiments and put-in the knowledge of theory in practice.

2.1.8 Department of Plant Pathology

The Department highlights on the study of plant pathogens and their interactions with plants-pests/pathogens leading to disease. The Department under the School of Agriculture has initiated to mentor under-graduate students to study, understand and investigate various host-microbe interactions and towards establishing practices in addressing field problems. It also deals with various aspects of agriculture including microbiology, principles of plant pathology and pathogens, diseases of field crops, Horticultural crops and their management, mushroom cultivation etc. The faculty members in the department are well qualified and acquired the required skills to carry forward such responsibilities with high accuracy.

2.1.9 Department of Soil Science & Agricultural Chemistry

The Department was established in 2013 under M.S. Swaminathan School of Agriculture and entrusted to contribute the service in teaching, laboratory practical work, research, extension and allied activities other than the teaching by esteemed faculty and staff members.

2.2 School of Engineering and Technology

The School of Engineering and Technology (SoET) was established in the year 2013. It offers courses at Bachelor, Master and Doctoral level, besides undertaking various training, research and consulting activities. The B. Tech programs in the School are in Civil Engineering, Mechanical Engineering, Computer Science and Engineering, Petro Chemical Engineering, Electrical and Electronics Engineering, Agriculture Engineering, Electronics and Communication Engineering and Dairy Technology. The M. Tech programs are in Civil Engineering, Mechanical Engineering, Computer Science and Engineering, Electrical and Electronics Engineering and Electronics and Communication Engineering. The programs are offered in Paralakhemundi and Bhubaneswar Campuses. The programs offered follow a pedagogy of 40% theory and 60%.

2.3.2 Department of Civil Engineering

Civil Engineering in Centurion University is offered in both the campuses at Parlakhemundi and Bhubaneswar.

The department has senior faculty members drawn from retired professors from reputed engineering colleges of Odisha and Andhra Pradesh (AP). It has few professors who have been Chief Engineers of the state.

The department offers courses at undergraduate level, graduate level (Structural Engineering, Hydraulics and Transportation Engineering). The main areas of research in the Department are in Geotechnical Engineering, Structural Engineering, Hydraulics Engineering, Hydrology, GIS and GPS Systems.

2.3.3 Department of Chemical and Petro-Chemical Engineering

The Department of Chemical and Petro-Chemical Engineering offers separate but related degree programmes in Chemical Engineering, Petro-Chemical Engineering. Chemical engineers deal principally with production of chemicals from various raw materials and compounds and are also responsible for the extraction and processing of minerals.

2.3.4 Department of Computer Science and Engineering

Centurion University is about hands-on learning, and learning through experience. The Computer Science course is also about building the fundamental concepts with focus on software programming and projects. At Centurion University, we understood that writing programs and doing projects is the right way to build not just our foundations, but also interest and passion for the discipline. We also concluded our students must be proficient in one or two languages, and have capability to write original code in these. Centurion offers a set of core courses – with concepts we believe all must learn; and with a large number of electives. The electives are offered based on student interest, so they have a choice in what they want to learn.

2.3.5 Department of Electrical and Electronics Engineering

This Department strives for excellence in teaching, research and professional services to the industry so as to achieve eminence in selected niche areas of Electrical and Electronics Engineering. The Department offers four years of B. Tech course in Electrical and Electronics Engineering (EEE), Electrical Engineering (EE) and also two years of M. Tech course in Power System & Control Engineering (PSC). The department has many faculty with industry experience especially in Transmission and Distribution.

2.3.6 Department of Electronics and Communication Engineering

Department of Electronics and Communication Engineering aims to produce qualified and dynamic engineers in the fast changing area of Electronics Communication Engineering. The Department has sophisticated and modern laboratory equipment and software for research and development work in the areas of Antenna and Microwave Engineering, Signal Processing and Communication, VLSI, Embedded System. The Department has trained faculty from reputed Institutes of India. The students have been placed in different national and multinational companies. Department is offering domain based courses in the field of VLSI and Embedded System within the curriculum to enhance their skills and make student ready for the industry in association with different industry partners.

2.3.7 Department of Mechanical Engineering

The Department of Mechanical Engineering has strategic alliances with companies like NALCO, HAL, VEDANTA & JINDAL other than CTTC, CIPET, IIW & NSIC to provide superior theoretical and practical training. Besides, the Department has also provided Pro E and Ansys software in its labs. The mission of the Department is to establish itself as a centre of excellence in the field of Mechanical Engineering, through innovative teaching-learning methods, intensive CAD/CAM short term programs, Industry-Institute partnerships. The department focusses on manufacturing, welding, automotive design and auto service sector skill development.

2.3 School of Applied Sciences

The Applied Sciences was established in the year 2016. Presently the School has 8 well equipped labs in the academic complex and. It offers courses such as Bachelor of Science (B.Sc.) program for 3 years and Master of Science (M.Sc.) program for 2 years, besides undertaking various training, research and consulting activities. It has eight departments. The programs are offered in Paralakhemundi, Bhubaneswar Bolangir and Rayagada Campuses.

2.4.1 Programmes Offered

2.4.1.1 B.Sc. (Hons) Programme

- Chemistry
- Optometry
- Mathematics
- Physics
- Information Technology
- Botany
- Zoology

2.4.1.2 M.Sc. Programme

- Applied Chemistry
- Applied Mathematics
- Applied Physics
- Botany
- Zoology

2.4 School of Management

The School of Management of the University evolved from the Centurion School of Rural Enterprise Management (CSREM). Since inception, nearly a decade ago, its flagship program has been Master of Business Administration (MBA) that focuses on social entrepreneurship. The key strength of the School is its experienced and enthusiastic faculty, committed top management, flexible curriculum, experiential learning, digital course content, strong linkage with industry, academia, civil society and government, skill integration and outreach programmes.

2.5.1 Programmes Offered

2.5.1.1 Master Programmes

- Master of Business Administration
- MBA in Development Management
- MBA in Agri-business Management
- MBA in Data Analytics
- MBA - Pharmaceutical Management

2.5.1.2 Bachelor Programmes

- Bachelor of Business Administration (BBA)
- BBA in Financial Services
- Bachelor of Commerce (B.Com.)
- B.Com in Banking and Accounting

2.5 School of Media & Communication

The School of Media and Communications, under the auspices of the Institute of Knowledge Societies at Centurion University is being launched as a complete media school which will have an integrated Bachelors and Master's degree programme, short term skill programmes in partnership with the PMKVY scheme of the Ministry of Skill Development and Entrepreneurship, Government of India and industry partnerships with both National and Regional Media. The school will deliver UNESCO's "Model Curriculum for Developing Countries and Emerging Democracies".

2.6.1 Programmes Offered

- BA in Media & Communication
- MA in Media & Communication



3. Student Admissions

For the 2022-23 Academic year 3229 number of students were admitted in the university. It includes 628 in Diploma Programmes, 2133 in Bachelor Programmes, 390 in Master Programmes & 78 in Doctoral Programmes. The details are indicated in Table 3.1.

Table 3.1: Admission Mix in Academic Year 2022-23

| Programme | Branch | Male | Female | Total |
|-----------------|-----------------------------------|------|--------|-------|
| B. Tech. | Agri. Tech | 14 | 4 | 18 |
| | Civil | 26 | 3 | 29 |
| | ECE | 66 | 34 | 100 |
| | EEE/EE | 46 | 5 | 51 |
| | CSE | 588 | 259 | 747 |
| | Mechanical | 47 | 1 | 48 |
| | Phyto | 15 | 6 | 21 |
| | Dairy Tech. | 4 | 3 | 7 |
| | MI | 8 | 0 | 8 |
| | Biotechnology | 13 | 15 | 28 |
| | Aerospace | 30 | 7 | 37 |
| MBA | MBA (DM/AM) | 5 | 3 | 8 |
| | MBA Data Analytics | 38 | 16 | 54 |
| B.Sc. | Chemistry | 6 | 6 | 12 |
| | Mathematics | 4 | 0 | 4 |
| | Physics | 2 | 5 | 7 |
| | Optometry | 10 | 16 | 26 |
| | Botany | 3 | 6 | 9 |
| | Zoology | 13 | 17 | 30 |
| | Forensic Science | 22 | 30 | 52 |
| | MRT | 15 | 16 | 31 |
| | MLT | 10 | 4 | 14 |
| | MB | 4 | 4 | 8 |
| | Operation Theatre Technology | 0 | 2 | 2 |
| | Physiotherapy | 10 | 9 | 19 |
| AT | 1 | 4 | 5 | |
| M.Sc. | Chemistry | 11 | 12 | 23 |
| | Mathematic | 3 | 6 | 9 |
| | Physics | 6 | 5 | 11 |
| | Medical lab. Technology (MSc MLT) | 5 | 11 | 16 |
| | Microbiology | 5 | 24 | 29 |

| | | | | |
|------------------|---|-----|-----|-----|
| | Botany | 9 | 46 | 55 |
| | Zoology | 24 | 63 | 87 |
| | Forensic Science | 2 | 4 | 6 |
| | M. Sc.in Cyber Security & Digital Forensics | 5 | 6 | 11 |
| M. Tech. | Data Science | 1 | 0 | 1 |
| | Design and Manufacturing | 3 | 0 | 3 |
| | Power System and Control | 0 | 0 | 0 |
| | Structural Engineering | 3 | 1 | 4 |
| | Transportation Engineering | 10 | 5 | 15 |
| BBA | BBA | 83 | 56 | 139 |
| BCA | BCA | 79 | 48 | 127 |
| B. Pharm. | B.PHARM | 186 | 49 | 235 |
| D. Pharm. | D.PHARM | 154 | 34 | 188 |
| Diploma | Civil | 35 | 1 | 36 |
| | Mechanical | 118 | 1 | 119 |
| | Electrical | 151 | 5 | 156 |
| | Computer Science Engineering | 87 | 25 | 112 |
| | AE | 8 | 0 | 8 |
| | Mining | 9 | 0 | 9 |
| MSSSoA | B.Sc. (Ag.) | 116 | 128 | 244 |
| | B.Sc. (Fish.) | 40 | 12 | 52 |
| | M.Sc. (Ag.) | 31 | 27 | 58 |
| B.Com. | Commerce | 14 | 9 | 23 |
| Ph.D. | Computer Science Engineering | 9 | 4 | 13 |
| | Civil | | | |
| | ECE | 0 | 2 | 2 |
| | Biotechnology | 1 | 4 | 5 |
| | Physics | 2 | 2 | 4 |
| | Chemistry | 0 | 3 | 3 |
| | Mechanical | 4 | 0 | 4 |
| | EEE | 1 | 1 | 2 |
| | Humanities | 0 | 1 | 1 |
| Botany | 5 | 6 | 11 | |

| | | | | |
|--|--------------------|-------------|-------------|-------------|
| | Mathematics | 1 | 0 | 1 |
| | Zoology | 1 | 3 | 4 |
| | Agriculture | 3 | 1 | 4 |
| | Paramedics | 0 | 2 | 2 |
| | Inter Disciplinary | 1 | 0 | 1 |
| | Geoinformatics | 1 | 0 | 1 |
| | Pharmacy | 5 | 1 | 6 |
| | Management | 10 | 4 | 14 |
| | TOTAL | 2242 | 1087 | 3229 |

4. Placement

Students of Centurion University are groomed for employment in Different organisations, enrolment in higher education institutions and starting their own enterprises. The outcome of the combined and relentless effort of Placement Team resulted in **1359** offers from 118 Companies in 2022-23. 60.6% of eligible engineering, 60% of eligible agriculture and 88.8% of eligible management students were placed successfully.

Table 4.1: Students Placed in Different Organisations

| Sl. No. | Name of the Company | No of Students Placed |
|---------|---|-----------------------|
| 1 | Cognizant GenC Next | 4 |
| 2 | Siyana Info Solutions | 1 |
| 3 | Hexaware Technologies | 18 |
| 4 | Spectraforce Technologies | 1 |
| 5 | NeenOpal Intelligent Solutions | 0 |
| 6 | Data Insights | 0 |
| 7 | MothersonSumi Systems | 7 |
| 8 | Argusoft | 0 |
| 9 | Flipkart | 0 |
| 10 | Simform | 0 |
| 11 | Indegene | 0 |
| 12 | Incture | 1 |
| 13 | Latent view | 1 |
| 14 | Infosys | 1 |
| 15 | Trilogy Innovations | 0 |
| 16 | Aswini Homeo & Ayurvedic Products P Ltd | 6 |
| 17 | Zifo | 2 |
| 18 | Shaligram Infotech | 12 |
| 19 | HDFC Life | 9 |

| | | |
|----|--------------------------------|-----|
| 20 | Brillio | 4 |
| 21 | Marsco Nutraceuticals Pvt Ltd. | 13 |
| 22 | Evolutyx | 5 |
| 23 | Jyoti Steels | 2 |
| 24 | IFFCO Kisan | 10 |
| 25 | Efftronics | 0 |
| 26 | EPICMINDS | 23 |
| 27 | Phronesis Partners | 0 |
| 28 | Hike Education | 5 |
| 29 | Ajatus | 2 |
| 30 | Valuecoders | 4 |
| 31 | Digit Insurance | 6 |
| 32 | Rallis India | 10 |
| 33 | Capgemini | 26 |
| 34 | Cognizant GenC | 40 |
| 35 | Covalense Digital | 5 |
| 36 | Upskillz Ed-Tech | 101 |
| 37 | Verzeo Edutech P Ltd | 42 |
| 38 | Rushil Decor P Ltd | 15 |
| 39 | Byju's | 3 |
| 40 | Svaya Robotics | 1 |
| 41 | KYB Motors | 35 |
| 42 | Pulsus Healthtech | 29 |
| 43 | Academor | 149 |
| 44 | Property Brands | 7 |
| 45 | Oditek | 3 |
| 46 | UTI Mutual Funds | 2 |
| 47 | Intellipaat | 32 |
| 48 | Cerium Systems | 1 |
| 49 | Unilight | 3 |
| 50 | Adani Group | 7 |
| 51 | Dedicated Agri Services | 1 |
| 52 | Netcracker Technology | |
| 53 | Tech Mahindra | 95 |
| 54 | iServeU | 3 |
| 55 | Silverspace | 10 |

| | | |
|----|---|----|
| 56 | Skill- Lync | 4 |
| 57 | ITC LTD | 10 |
| 58 | Milekal | 16 |
| 59 | Maventic | 1 |
| 60 | Reliance Jio | 3 |
| 61 | Zentree Lab | 4 |
| 62 | Gram Tarang Technologies | 8 |
| 63 | Glenmark Life Science | 20 |
| 64 | Kesari Farms & Biologicals | 46 |
| 65 | Manikaran Power Ltd | 1 |
| 66 | Lenskart | 34 |
| 67 | Tata Advanced Systems Ltd. | 4 |
| 68 | SIDs FARMS | 6 |
| 69 | IFFCO Kishan | 10 |
| 70 | Santacruz | 2 |
| 71 | Federal Bank | 1 |
| 72 | Dana India Pvt Ltd | 26 |
| 73 | SMS Group | 0 |
| 74 | AIRDIT | 0 |
| 75 | Sutherland | 12 |
| 76 | Edustation | 17 |
| 77 | GTIDS Pvt Ltd | 33 |
| 78 | Bhoomika Hospitals | 7 |
| 79 | Saini Electrical | 1 |
| 80 | Satrix | 2 |
| 81 | Aether Innovations | 1 |
| 82 | Spectrum Bioseeds | 14 |
| 83 | SKH Metals | 90 |
| 84 | Kaiburr | 3 |
| 85 | H.G. Infra Engineering | 5 |
| 86 | Piramal Capital and Housing Finance Ltd | 2 |
| 87 | BAIF Development | 7 |
| 88 | HDFC Bank | 6 |
| 89 | Searchingyard Software | 5 |
| 90 | HCL | 1 |
| 91 | IndianMart | 2 |

| | | |
|------------------------------|---------------------------------|-------------|
| 92 | HDB Financial Services | 1 |
| 93 | Ignited Products LLP | 2 |
| 94 | TECHASOFT PVT LTD | 2 |
| 95 | MyCity Link | 2 |
| 96 | Trusttrend Solution | 1 |
| 97 | SkillVertex | 20 |
| 98 | Kokban Automation | 6 |
| 99 | Rainflex Food and Confectioners | 1 |
| 100 | Tata Power | 6 |
| 101 | A-Zan Overseas | 1 |
| 102 | Axis Bank | 4 |
| 103 | EmerTech RND Solutions | 1 |
| 104 | Evolutyz Corp | 5 |
| 105 | Focus Plus | 1 |
| 106 | iValue Info Solutions | 4 |
| 107 | Pollutech Engineering | 48 |
| 108 | Promea Therapeutics | 1 |
| 109 | TCS | 7 |
| 110 | VR Guides Private Limited | 2 |
| 111 | GTIDS Pvt Ltd | 17 |
| 112 | Fortune International Institute | 12 |
| 113 | Muvro | 6 |
| 114 | Milk Mantra | 4 |
| 115 | Infunex Healthcare | 2 |
| 116 | Episource | 32 |
| 117 | JSW | 7 |
| 118 | Profarm Seeds | 2 |
| Total Students Placed | | 1361 |

5. Consulting & Training

The university gives utmost importance to Consulting & Training having academic relevance. These activities are geared towards solving real life problems faced by organisations and communities. The details of consulting and training activities are presented in Table 5.1. During the year the University provided consulting & training worth Rs. Fourty Three Crore Sixty Five Lakhs Fifty One Thousand Seven Hundred Ninty Six. In 2022-23, Centurion University has received consultancy projects from Artificificial Limbs Manufacturing Corporation of India, Hindstan Aeronotus Limited, RSB Transmission India Pvt Ltd, Tennco Clean Air India Pvt Ltd, Moutik Consultancy Pvt Ltd, Indian Rare Earths Ltd., etc.

Table 5.1: Details of Training & Consulting Activities Undertaken

| Client Organization | Title of project | Amount Received (Rs.) |
|---|---|------------------------------|
| Artificial Limbs Manufacturing Corporation of India Bhubaneswar | Machining and supply of components | 28,509.00 |
| Artificial Limbs Manufacturing Corporation of India Jabalpur | Machining and supply of components | 62,020.00 |
| RSB Transmission India Pvt Ltd | Machining and supply of components | 1,79,011.00 |
| Hindustan Aeronautics Ltd | Machining small of components | 928.00 |
| Sale of Garments | Sale of garmrnts | 4,17,045.00 |
| Sale of E Vehicles | E Vehicle sales | 23,82,561.00 |
| Moutik Consultancy Pvt Ltd | Skill Training | 1,87,600.00 |
| Tenco Clean Air India Pvt Ltd | Setup of advanced and latest Welding Technology lab | 9,43,750.00 |
| DDUGKY Odisha | Assessment | 1,13,22,848.00 |
| DDUGKY AP | Assessment | 3,53,120.00 |
| OSDA | Assessment | 37,36,780.00 |
| CED-Gujrat | Assessment | 1,53,600.00 |
| Corporate-All India | Assessment | 24,95,399.00 |
| WBSCST | Assessment | 72,000.00 |
| UPSDM | Assessment | 2,35,43,010.00 |
| MPSSDEGB | Assessment | 43,53,424.00 |

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|--------------------------------|---------------------------|-------------|
| Trainning of trainer-TOT | Training | 5,84,800.00 |
| Registration fee | Training | 55,000.00 |
| Other | Training | 8,850.00 |
| CUTM messes, employess | Dairy and dairy products | 19,80,616 |
| CUTM messes, employess | Mushroom | 67,899 |
| CUTM messes, employess, market | Mango | 84,664 |
| CUTM messes, employess, market | Veterinary products | 1,75,449 |
| CUTM messes, employess, market | Paddy | 2,94,915 |
| Market | Spices using CO2 | 35226597.00 |
| Market | Diafit Rice | 10497420.00 |
| CUTM CCC, employess | Baking Unit products | 64,951 |
| OTDS/ SC-ST DEPT/Minorities | Skill development Program | 11,96,044 |
| PMKVY/RPL/SIB/RMT | Skill development Program | 3,35,00,420 |
| IREL | Skill development Program | 11,63,535 |

6. Research Projects, Publications, Seminars & Conferences

Research & Publications are important activities of the University. The University encourages its Faculty and Students to undertake context specific research for solving real life problems faced by organisations and communities. During the Year University filed 51 patents.

During the year, 440 number of journal articles published some of these include.

6.1. List of Publications

| S.N. | Title Of Paper | Name Of Author(S) | Name Of Department | Name Of Journal | Year | Issn |
|------|--|-------------------------------------|--------------------|-----------------|------|-----------|
| 1 | Traditional Uses and Variation in Curcumin Content in Varieties of Curcuma-theSaffronofIndia | B. Jyotirmayee, Gyanranjan Mahalik* | Botany | Ambient Science | 2022 | 2348-8980 |

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|---|--|---|--------|---|------|-----------|
| 2 | A Survey on the Ethnomedicinal plants and Antimicrobial activity of <i>Tridax procumbens</i> L. | Soumyaranjan Behera, Gyanranjan Mahalik* | Botany | Research Journal of Pharmacy and Technology | 2022 | 0974-360X |
| 3 | Traditional plants utilized for the viral disease treatment | Ushashee Mandal, B Jyotirmayee & Gyanranjan Mahalik* | Botany | PLANT SCIENCE TODAY | 2022 | 2348-1900 |
| 4 | Genome-wide transcriptional response of contrasting genotypes of industrial crop castor to As(V) stress: Identification of genes and mechanisms associated with As(V) tolerance | Singh R, Misra AN and Sharma P | Botany | Industrial Crops and Products | 2022 | 0926-6690 |
| 5 | Genome Wide Analysis of the Potato Soft Rot Pathogen <i>Pectobacterium carotovorum</i> Strain ICMP 5702 to Predict Novel Insights into Its Genetic Features | Tista Mallick ¹ , Rukmini Mishra ² , Sasmita Mohanty ¹ , and Raj Kumar Joshi ^{1*} | Botany | The Plant Pathology Journal | 2022 | 1598-2254 |
| 6 | Molecular characterization of Zn(II) ₂ Cys ₆ cluster gene family and their association with pathogenicity of the onion basal rot pathogen, <i>Fusarium oxysporum</i> f. sp. <i>cepae</i> | Bijayalaxmi Mahanty ^a , Rukmini Mishra ^b , Raj Kumar Joshi ^{a,*} | Botany | Physiological and Molecular Plant Pathology | 2022 | 0885-5765 |
| 7 | A review on selected pharmacological activities of <i>Curcuma longa</i> L. | B Jyotirmayee and *Gyanranjan Mahalik | Botany | INTERNATIONAL JOURNAL OF FOOD PROPERTIES | 2022 | 1532-2386 |
| 8 | Aqueous and chemical extraction of saponin of <i>Acacia concinna</i> (Willd.)Dc.: An effective Bio-surfactant solution to extract silk fibroin from muga | <u>Aritra Kumar Dan</u> , <u>Bhagyashree Biswal</u> , <u>Manoja Das</u> , <u>Sagarika Parida</u> , <u>Pankaj Kumar Parhi</u> , <u>Debadutta Das</u> | Botany | Journal of Molecular Liquids | 2022 | 0167-7322 |

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|----|--|---|--------|---|------|-----------|
| 9 | Nanocatalyst in remediating environmental pollutants | Rina Ningthoujam, Yengkhom Disco Singh, Punuri Jayasekhar Babu, Akriti Tirkey, Srimay Pradhan, Mrinal Sarma | Botany | Chemical Physics Impact | 2022 | 2667-0224 |
| 10 | Does the diverse source of miRNAs affect human health? An approach towards diagnosis and therapeutic management | Jatindra Nath Mohanty*, Swayamprabha Sahoo, Sweta Padma Routray, Ruchi Bhuyan | Botany | Gene Reports | 2022 | 2452-0144 |
| 11 | Seeking heterocyclic scaffolds as antivirals against dengue virus | Soumik De, Bari Aamna, Raghava Sahu, Sagarika Parida, Santosh Kumar Behera, Aritra Kumar Dan | Botany | European Journal of Medicinal Chemistry | 2022 | 0223-5234 |
| 12 | Deciphering the Signaling Mechanisms of β -arrestin1 and β -arrestin2 in Regulation of Cancer Cell cycle and Metastasis. | Bari Aamna, Aritra Kumar Dan, Raghava Sahu, Santosh Kumar Behera, Sagarika Parida* | Botany | Journal of Cellular Physiology | 2022 | 0021-9541 |
| 13 | Black rice: A review from its history to chemical makeup to health advantages, nutritional properties and dietary uses | Deepak Kumar Panda, B Jyotirmayee & Gyanranjan Mahalik* | Botany | Plant Science Today | 2022 | 2348-1900 |
| 14 | Periodontitis and Its Inflammatory Changes Linked to Various Systemic Diseases: A Review of Its Underlying Mechanisms | Bhuyan R, Bhuyan SK, Mohanty JN, Das S, Juliana N, Abu IF. | Botany | Biomedicines | 2022 | 2227-9059 |
| 15 | Nitric oxide alleviates cadmium-imposed growth by limiting ROS accumulation in pea seedlings | E. A. Khan, H. M. I. Ahmed, M. Misra, P. Sharma, A. N. Misra, M. Hasanuzzaman | Botany | Biocell | 2022 | 1667-5746 |

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|----|---|--|--------|--|------|-----------|
| 16 | Nitric Oxide Alleviates Photochemical Damage Induced by Cadmium Stress in Pea Seedlings | Ekhlaque A. Khan, Hamdino M. I. Ahmed , Meena Misra , Pallavi Sharma and Amarendra N. Misra | Botany | Phyton | 2022 | 0031-9457 |
| 17 | Antimicrobial, anticancer, and antioxidant potential of two dominant macro-lichen <i>Dirinaria aegialita</i> and <i>Parmotrema praesorediosum</i> collected from Similipal Biosphere Reserve of Odisha, India | Srimay Pradhan, Dalip Kumar Upreti, Rajesh Kumar Meher, Kunja Bihari Satapathy | Botany | Journal of Applied Biology & Biotechnology | 2022 | 2347-212X |
| 18 | Pharmacological activities of limonin from Khasi Mandarin as therapeutic applications | Yengkhom Disco Sing, Debasmita Das, Sunanya Das, Kabyashree Diptimayee Swain, Srimay Pradhan, Punuri Jayasekhar Babu | Botany | Pharmacological Research - Modern Chinese Medicine | 2022 | 2667-1425 |
| 19 | Artemisinin Based Nanomedicine for Therapeutic Applications: Recent Advances and Challenges | Shibani Pradhan, Abhipsa Mishra, Suchismita Sahoo, Srimay Pradhan, Punuri Jayasekhar Babu, Yengkhom Disco Singh, Naorem Bidyaleima Chanu | Botany | Pharmacological Research - Modern Chinese Medicine | 2022 | 2667-1425 |
| 20 | Bamboo Species of Odisha, India: Source of Nutraceutical | Santwana Samilita Dash, Sanjeet Kumar, Gyanaranjan Mahalik* | Botany | Ambient Science | 2022 | 2348-5191 |
| 21 | A genetic approach to comprehend the complex and dynamic event of floral development: a review. 2022 Sep 23;20(3). | Mohanty JN, Sahoo S, Mishra P. | Botany | Genomics & Informatics | 2022 | 2234-0742 |

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|----|---|--|-----------|--|------|-----------|
| 22 | Traditional Phytomedicine for Hair-care and Scalp-infections Used by Rural Populace in Balasore District of Odisha, India | Mohapatra, Ranjitabala; Satapathy, Kunja Bihari | Botany | AMBIENT SCIENCE | 2022 | 2348-5191 |
| 23 | Potential bioactive molecules from natural products to combat against coronavirus | Singh, Y.D., Jena, B., Ningthoujam, R., Panda, S., Priyadarsini, P., Pattanayak, S., Panda, M.K., Singh, M.C., Satapathy, K.B. | Botany | Advances in Traditional Medicine | 2022 | 2662-4052 |
| 24 | Essential oils and their pharmacotherapeutics applications in human diseases | Panda, S., Sahoo, S., Tripathy, K., Singh, Y.D., Sarma, M.K., Babu, P.J., Singh, M.C. | Botany | Advances in Traditional Medicine | 2022 | 2662-4052 |
| 25 | Spectral Characterization and Biological Studies of Some Ternary Complexes with Molecular Docking Investigations against MERS and SARS Type Corona viruses | V.P. Saikishore, Susanta Kumar Biswal and Ranjan K. Mohapatra | Chemistry | Bulletin of the Chemical Society of Ethiopia | 2022 | 1011-3924 |
| 26 | Graphene reinforced aluminum nanocomposites: synthesis, characterization and properties | Binod Bihari Palei, Tapan Dash & Susanta Kumar Biswal | Chemistry | Journal of Materials Science | 2022 | 0022-2461 |
| 27 | Study on the electronic band structure of ZnO–SnO ₂ heterostructured nanocomposites with mechanistic investigation on the enhanced photoluminescence and photocatalytic properties | A. Palai, NR Panda, MR Sahoo, Dojalisa Sahu | Chemistry | Journal of Materials Science: Materials in Electronics | 2022 | 0957-4522 |

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|----|---|--|-----------|---|------|-----------|
| 28 | Structural investigations, Hirsfeld surface analyses, and molecular docking studies of a phenoxo-bridged binuclear Zinc(II) complex | Mohammad Azam, Prakash Kumar Sahoo, Ranjan K. Mohapatra, Manjeet Kumar, Azaj Ansari, Il Soo Moone, Arunabhiram Chutiaf, Saud I. Al-Resayes, Susanta Kumar Biswal | Chemistry | Journal of Molecular Structure | 2022 | 0022-2860 |
| 29 | Adsorptive Sequestration of Toxic Congo Red Dye from Aqueous Solution Using Fe O /Sugarcane Bagasse Biochar Nanocomposite | Godaba Dharmendra , Jitendra Kumar Sahoo , Amrutashree Hota and Shraban Kumar Sahoo | Chemistry | ECS Transactions | 2022 | 1938-5862 |
| 30 | Dependence of Cu Doping on Morphology, Magnetic Properties and Cytotoxicity Activity of ZnO Nanostructures | Sarangi, Sachindra Nath; Acharya, Suchismita; Biswal, Susanta Kumar; Nanda, Karuna | Chemistry | Materials Today Communications | 2022 | 2352-4928 |
| 31 | Nanocrystalline gadolinium doped ZnO: An excellent photoluminescent material and efficient photocatalyst towards optoelectronic and environment remedial applications | Debasrita Dash, Amrita Palai, Dojalisa Sahu | Chemistry | Ceramic International | 2022 | 0272-8842 |
| 32 | Synthesis and photocatalytic activity of Ni doped SnO ₂ nanoparticles for removal of toxic industrial dyes | PK Mishra, SK Biswal, Dojalisa Sahu | Chemistry | Material Today: Proceedings | 2022 | 2214-7853 |
| 33 | Co-axial electrospun hollow MgO nanofibers for efficient removal of fluoride ions from water | Shraban Kumar Sahoo, Gagan Kumar Panigrahi, Jyoti Prakash Dhal, Jitendra Kumar Sahoo, Akash Kumar Behera, Prakash Chandra Panda, Priyanka Patel, Swagat Kumar Munda, | Chemistry | Colloids and Surface A: Physicochemical and Engineering Aspects | 2022 | 0927-7757 |

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|----|---|---|-----------|----------------------------------|------|-----------|
| | | Swapna Mayee Muduli, Lopamudra Panda | | | | |
| 34 | Adsorptive sequestration of noxious uranium (VI) from water resources: A comprehensive review | Sourav Prusty, Prathap Somu, Jitendra Kumar Sahoo, Debasish Panda, Sunil Kumar Sahoo, Shraban Kumar Sahoo, Yong Rok Lee, T Jarin, L Syam Sundar, Koppula Srinivas Rao | Chemistry | Chemosphere | 2022 | 0045-6535 |
| 35 | Enhanced optical, magnetic, and photocatalytic activity of Mg ²⁺ substituted NiFe ₂ O ₄ spinel nanoparticles | S. Kanithana , N. Arun Vigneshb , Khadijah Mohammedsaleh Katubi , Partha Sarathi Subudhi, Ekrem Yanmaz , Joshuva Arockia Dhanraj , Norah Salem Alsaiani , khamael M. Abualnaja , M. Sukumar , M. Sundararajan, S. Baskar , Srikanta Sahu, Chandra Sekhar Dash | Chemistry | Journal of Molecular Structure | 2022 | 0022-2860 |
| 36 | 3D graphene-based materials and their potential application on wastewater management | Prasanta Kumar Sahoo, Gyanaprabha Nayak, Jagriti Gupta, Naresh Kumar Sahoo, Srikanta Sahu, Ankur Soam | Chemistry | Environmental Quality Management | 2022 | 1520-6483 |
| 37 | Synthesis of Cu(II) complexes by N,O-donor ligand transformation and their catalytic role in visible-light-driven alcohol oxidation | Ranjan, Rishi; Kundu, Bidyut Kumar; Kyarikwal, Reena; Ganguly, Rakesh; Mukhopadhyay, Suman | Chemistry | APPLIED ORGANOMETALLIC CHEMISTRY | 2022 | 0268-2605 |

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|----|--|--|-------------|---|------|-----------|
| 38 | Transition metal complexes produced from dipicolinic acid: synthesis, structural characterization, and anti-microbial investigations | Sahoo, Prakash Kumar; Biswal, Susanta Kumar; Azam, Mohammad | Chemistry | BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA | 2022 | 1011-3924 |
| 39 | AMORPHOPHALLUS PAEONIIFOLIUS (ARACEAE): A NUTRACEUTICAL FOR FOOD DISORDERS, NOVEL BACTERIAL & VIRAL INFECTIONS | Swain, J., Devi, R.S., Kumar, S., Antunes, L.L.C., Biswal, S.K., Jena, P.K. | Chemistry | Carpathian Journal of Food Science and Technology | 2022 | 2066-6845 |
| 40 | Study on the Reaction Mechanism of Oxidative Microbial Desulfurization of Organic Sulfur-Rich Coal | Rout, P.G., Mohanty, A.K., Pradhan, N., Biswal, S.K., Behera, S.K. | Chemistry | Geomicrobiology Journal | 2022 | 0149-0451 |
| 41 | Dissipative heat for the Casson fluid flow past an expanding cylindrical surface | Pattnaik, Pradyumna Kumar; Mishra, Satyaranjan; Jena, Swarnalata | Mathematics | Heat Transfer | 2022 | 2688-4534 |
| 42 | Free Convection of a Viscous Electrically Conducting Fluid Past a Stretching Surface | Abdulmajeed D. Aldabesh1, P. K. Pattnaik2, S. Jena3, S. R. Mishra4, Mouna Ben Henda5 and Iskander Tlili5 | Mathematics | Fluid Dynamics & Materials Processing | 2022 | 1555-2578 |
| 43 | Impact of radiative and dissipative heat on the Williamson nanofluid flow within a parallel channel due to thermal buoyancy | Pattanaik, P Chandini; Mishra, SR; Jena, S; Pattnaik, PK | Mathematics | Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems | 2022 | 2397-7914 |
| 44 | Radiative and Convective Heat Transfer on MHD Stagnation point Nanofluid Flow past a | G. K. Mahato, B. K. Mahatha, S. Ram and S. B. Padhi | Mathematics | AIP Conference Proceedings | 2022 | 0094-243X |

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|----|--|---|-------------|---|------|-----------------|
| | Stretchable Surface with Melting | | | | | |
| 45 | Radiation, Chemical Reaction and Dissipative Effects on MHD Stagnation Point Nano-Fluid Flow Past a Stretchable Melting Surface | B. K. Mahatha, S. B. Padhi, G. K. Mahato and S. Ram | Mathematics | AIP Conference Proceedings | 2022 | 0094-243X |
| 46 | Mixed convective radiative heat transfer in a particle-laden boundary layer fluid over an exponentially stretching permeable surface | Pradeep Kumar Tripathy, Tumbanath Samantara, | Mathematics | AIP Conference Proceedings | 2022 | 0094-243X |
| 47 | Strongly Summable Fibonacci Difference Geometric Sequences defined by Orlicz Functions | Saubhagyalaxmi Singh, Salila Dutta , Sagarika Dash and Ram Prakash Sharma | Mathematics | GANITA | 2022 | 0046-5402 |
| 48 | Cu-kerosene and Al ₂ O ₃ -kerosene boundary layer nanofluid flow past a stretching/shrinking surface | Pattnaik, Pradyumna Kumar; Mishra, Sujogya; Baitharu, Ajaya Prasad; Jena, Swarnalata | Mathematics | Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems | 2022 | 2397-7914 |
| 49 | Impact of Newtonian heating on the conducting Casson fluid flow past a stretching cylinder | Swarnalata Jena, Satya Ranjan Mishra, Mohsen Aghaeiboorkheili, Pradyumna Kumar Pattnaik, Kamalakanta Muduli | Mathematics | Journal of Interdisciplinary Mathematics | 2022 | 0972-0502 |
| 50 | Study of Unsteady Two Phase Flow over An Inclined Permeable Stretching Sheet with Effects of Electrification and Radiation | Jayaprakash Mishra , Tumbanath Samantara | Mathematics | Journal of Advanced Research in Fluid Mechanics and Thermal Sciences | 2022 | ISSN: 2289-7879 |

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|----|--|---|-------------|--|------|-----------|
| 51 | Machine learning methods for detecting radiation-induced tissue inflammation in patients with lung cancer | Prashant Agrawal, Keshav Kumar K, Pallavi sagar Deshpande, Parthiban K G, Abdul Rahman Mohammed ALAnsari, J.Sundararajan, Mohammed Siddique | Mathematics | International Journal of Food and Nutritional Sciences | 2022 | 2320-7876 |
| 52 | Breast Cancer Classification from mammogram images Using Extreme Learning Machine based DenseNet121 Model | Rajkumar Pattanaik, Mohammed Siddique, Satyasis Mishra, T. Gopikrishna, Sunita Sathpathy | Mathematics | Journal of Sensors | 2022 | 1687-725X |
| 53 | Effect of Chemical Reaction and Thermal Radiation on Bio-Magnetic Viscoelastic Fluid Flow Embedded in a Porous Medium | S Jena, S R Mishra & Ram Prakash Sharma | Mathematics | Indian Journal of Pure & Applied Physics | 2022 | 0019-5596 |
| 54 | Numerical Solution of Two-Phase Radiated Unsteady Flow over a horizontal Stretching sheet with simultaneous effect of electrification, radiation and Non-uniform internal heat Source/Sink | Subhrajit Kanungo, Tumbanath Samantara | Mathematics | Journal of Advanced Research in Fluid Mechanics and Thermal Sciences | 2022 | 2289-7879 |
| 55 | Investigation on Structural, Dielectric, Thermistor Parameters and Negative Temperature Coefficient Behaviour of Nd, Gd, and La-Doped Bismuth Ferrite | Priyambada Mallick · A.K.Sahu · Susanta Ku. Biswal · S.K.Satpathy · Banarji Behera | Physics | Trans. Electr. Electron. Mater. | 2022 | 1229-7607 |
| 56 | Crystal structure, dielectric and impedance studies of a new lead free tungsten bronze ferroelectric oxide | S. Devia, S. Sapatryab, and S. Beheraa | Physics | Ferroelectrics | 2022 | 0015-0193 |

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|----|---|--|---------|--|------|-----------|
| 57 | Synthesis and characterization of lead-free double perovskite Mg ₂ LaVO ₆ | S. Behera, B. N. Parida, R. K. Parida, and R. Padhee | Physics | Journal of Materials Science: Materials in Electronics | 2022 | 0957-4522 |
| 58 | Plasma processing of Fe-P/rGO powder for making robust wear resistance and anticorrosion coating over mild steel | D. Debasish, S Bajpai, S. Gochhayat, Tapan Dash, Ankeet Rajan Pati, Pranay Kumar Patra, A N Bhagat, Saroj Kumar Singh and Tapan Kumar Rout | Physics | Materials Research Express | 2022 | 2053-1591 |
| 59 | Copper iodide induced ambient-air-stable formamidinium lead triiodide thin film | J.Arunodaya, Nibedita Nayak & Trilochan Sahoo | Physics | Journal of Materials Science: Materials in Electronics | 2022 | 0957-4522 |
| 60 | Thermoacoustical Analysis of Polymer Dextran at Different Frequencies | Subhrraj Panda | Physics | Bulgarian Journal of Physics | 2022 | 1310-0157 |
| 61 | Understanding the impact of Gd ³⁺ substitutions on the enhancement of dielectric and electrical behaviour of lead-free Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.9} O ₃ ceramics | S. Saparjya, S. Behera, T. Badapanda,, B. Behera, R. Padhee and Piyush R. Das | Physics | Ferroelectrics | 2022 | 0015-0193 |
| 62 | Analysis of Aqueous Dextran: An Ultrasonic Study | Subhrraj Panda | Physics | Current Microwave Chemistry | 2022 | 2213-3356 |
| 63 | Structural, dielectric, and electrical study of bismuth ferrite-lithium vanadate | Meena Kumari Sahu, Priyambada Mallick, Santosh Ku. Satpathy and Banarji Behera | Physics | The European Physical Journal Applied Physics (EPJAP) | 2022 | 1286-0042 |
| 64 | Structural evolution and enhanced dielectric properties of CeO ₂ modified lead-free (Bi _{0.5} Na _{0.5} TiO ₃)-(BaTiO ₃) solid solutions | S. Sahoo, R. Barman, T. Badapanda · S. Sarangi · Satya N. Tripathy | Physics | Materials Science & Processing, Applied Physics-A | 2022 | 0947-8396 |

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|----|---|---|---------|--|------|--|
| 65 | Investigation of structure–property correlation on the dielectric and optical properties of lanthanum modified barium titanate ceramic | A. K. Mahapatra, T. Badapanda, S. Sahoo, S. Sarangi, | Physics | Journal of the Korean Ceramic Society | 2022 | 1229-7801 |
| 66 | <u>Molecular Interaction Study of Binary Liquid Solution Using Ultrasonic Technique</u> | Subhrraraj panda | Physics | Recent Innovations in Chemical Engineering | 2022 | ISSN (Print): 2405-5204 ISSN (Online): 2405-5212 |
| 67 | Substitutional Tungsten Doping in Silicon Carbide Introducing Magnetic Properties: A Computational DFT Approach | Padmaja Patnaik, Dipan kumar Das, Subhrraraj Panda* and Gautam Mukhopadhyay | Physics | Nanoscience & Nanotechnology-Asia | 2022 | ISSN (Print): 2210-6812 ISSN (Online): 2210-6820 |
| 68 | Study of effective de-Gennes factor and effect of doping on superconductivity in rare-earth nickel borocarbide superconductors | B.K.Sahoo,S.Pradhan,S.Das,S.K.Barik ,P.Patnaik,R.K.Bhuyan,B.N.Panda | Physics | Materials Today: Proceedings | 2022 | 2214-7853 |
| 69 | Elastic Properties of Zinc Sulfide by Using Generalized Gradient Approximations | Subhrraraj Panda, Padmaja Patnaik | Physics | Bulgarian Journal of Physics | 2022 | 1310-0157 |
| 70 | Study of Structural, Dielectric, Electrical, and Magnetic Properties of Samarium-Doped Double Perovskite Material for Thermistor Applications | Priyambada Mallick, Santosh Ku Satpathy, Banarji Behera | Physics | Brazilian Journal of Physics | 2022 | 1678-4448 |
| 71 | Experimental Investigation on Structural, Dielectric, and Transport Properties of Copper Doped SrTiO ₃ | Priyambada Mallick, Lelin Champati, Susanta Ku Biswal,Santosh Ku Satpathy | Physics | Integrated Ferroelectrics | 2022 | 1607-8489 |

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|----|--|---|---------|---|------|-----------|
| 72 | Investigation on the structural, electrical and thermistor parameters of La-doped BiFeO ₃ -PbZrO ₃ for energy storage devices | Priyambada Mallick, Santosh Ku. Satpathy and Banarji Behera | Physics | Bulletin of Materials Science | 2022 | 0973-7669 |
| 73 | Synthesis and Transport Properties of Cobalt Ferrite: A Systematic Overview | Ananga Uday Naik, Banarji Behera, Santosh Ku Satpathy | Physics | Micro and nanosystem | 2022 | 1876-4029 |
| 74 | Development and characterization of copper doped perovskite-polymer composite through high-temperature technique | Priyambada Mallick, Rashmiranjan Patra, Debabrata Mohanty, Santosh Ku. Satpathy | Physics | Sadhana - Academy Proceedings in Engineering Sciences | 2022 | 0256-2499 |
| 75 | Studies on Structural, Dielectric, and Electrical Properties of the PMMA-BNT Ceramics Polymer Composites | Rashmiranjan Patra, Debabrata Mohanty, Pramod Ku. Nayak, Santosh K. Satpathy S. K. Parida | Physics | Polymer Science, Series B | 2022 | 1555-6123 |
| 76 | Molecular interaction of novel polymer dextran with 1(N) sodium hydroxide solution: Ultrasonic studies | Subhrraraj panda | Physics | Asia Pacific Journal of Science and Technology- | 2022 | 2539-6293 |
| 77 | Thermoacoustical parameters of dextran polymer in sodium hydroxide solutions | Subhrraraj panda | Physics | Songklanakarin J. Sci. Technol. | 2022 | 0125-3395 |
| 78 | Dielectric, Optical, and Magnetic Behaviors of Magnesium Iron-Based Double Perovskites | S. Mohanty S. Behera, Santanu Sen B. N. Parida, and Rashmi Singh | Physics | ECS Journal of Solid State Science and Technology | 2022 | 2162-8769 |
| 79 | Multiferroic and optical characteristics of Mg ₂ (Fe _{0.85} Ni _{0.15})NbO ₆ for possible energy storage application | Mohanty S.; Sen S.; Behera S.; Parida B.N. | Physics | Journal of Material Science: Mat.in Electronics | 2022 | 0957-4522 |

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|----|---|---|---------|--|------|-----------|
| 80 | <u>Graphene reinforced silicon composites and their characterizations</u> | Tapan Dash, Binod Bihari Palei, Biswajit Dash, Rakesh Kumar Sahu, Ranjan Kumar Moharana, Sunita Dhar, Surendra Kumar Biswalal | Physics | Materials Today: Proceedings | 2022 | 2214-7853 |
| 81 | Simulations of astrometric planet detection in Alpha Centauri by intensity interferometry | Rai, Km Nitu; Sarangi, Subrata; Saha, Prasenjit; Basak, Soumen | Physics | MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY | 2022 | 0035-8711 |
| 82 | Investigation of Compositional Effect on Dielectric and Variable Range Hopping Mechanism of Dysprosium Doped BNT-BT Ceramics | Sahoo, S.; Badapanda, T.; Sarangi, S.; Tripathy, Satya N. | Physics | ECS Journal of Solid State Science and Technology | 2022 | 2162-8769 |
| 83 | The a-Wave of the Electroretinogram and Iron-Induced Oxidative Stress: A Model | Pattanaik, Deepak K.; Sahu, Amir Prasad; Lakshminarayanan, Vasudevan; Sharma, Nachieketa K. | Physics | ACTA BIOTHEORETICA | 2022 | 0001-5342 |
| 84 | Is the Sea off Odisha, North Western Bay of Bengal, a favourable feeding ground of Bryde's Whale [Balaenoptera edeni Anderson, 1878]? | Shesdev Patro, Sunil Kumar Padhi, Gitanjali Bhoi, Siba Prasad Parida, Anil Mohapatra and P. Krishnan | Zoology | Thalassas: An International Journal of Marine Sciences | 2022 | 0212-5919 |
| 85 | Influence of Phytobiotic Essential Oils on Growth Performance and Hematological Parameters of Broiler Chickens | Lopamudra Samantaray, Yashaswi Nayak | Zoology | Advances in Animal and Veterinary Sciences | 2022 | 2309-3331 |
| 86 | Nanotechnology for precision and sustainable agriculture: recent advances, challenges and future implications | Annapurna Sahoo, Jasmine Sethi, Kunja Bihari Satapathy, Shraban Kumar Sahoo and Gagan Kumar Panigrahi | Zoology | Nanotechnology for Environmental Engineering | 2022 | 2365-6387 |

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| 87 | Noise pollution effect on composition of avian structure in different urban gradients | Bibhu Prasad Panda, Swetashree Purohit , Siba Prasad Parida , Aditya Kishore Dash , Rajesh Kumar Mohapatra , Abanti Pradhan | Zoology | Materials Today: Proceedings | 2022 | 2214-7853 |
| 88 | Impact of Global Climate Change on extremophilic diversity | Saroj Kumar Deep, Biswajit Patra, Anupama Baral | Zoology | Journal of East China University of Science and Technology | 2022 | 1006-3080 |
| 89 | Microbased biorefinery for gold nanoparticle production: recent advancements, applications and future aspects | Annapurna Sahoo, Kunja Bihari Satapathy, Gagan Kumar Panigrahi | Zoology | Preparative Biochemistry and Biotechnology | 2022 | 1082-6068 |
| 90 | Biological synthesis of GO-MgO nanomaterial using Azadirachta indica leaf extract: A potential bio-adsorbent for removing Cr(VI) ions from aqueous media | Shraban Kumar Sahoo, Gagan Kumar Panigrahi, Manoj Kumar Sahu, Atia Arzoo, Jitendra Kumar Sahoo, Annapurna Sahoo, Arun Kumar Pradhan, Anuesha Dalbehera | Zoology | Biochemical Engineering Journal | 2022 | 1873-295X |
| 91 | The Influences of Black Pepper, Turmeric and Fennel Essential Oils Supplementation in Feed on Egg Quality Characteristics of Layers | Yashaswi Nayak, Lopamudra Samantaray | Zoology | Journal of Animal Health and Production | 2022 | 2308-2801 |
| 92 | MRI Abnormalities of the Brain After Complex Febrile Seizures in Children | Rakesh Das , Banashree Swain , Chinmaya K. Sahoo , Pradeep K. Jena , Bikas K. Sahu , Narendra N. Soren , Shantibhusan Das , Nirmal K. Mohakud | Zoology | Cureus Journal Of Medical Science | 2022 | 2168-8184 |

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| 93 | The RNA Secondary Structure Analysis Reveals Potential for Emergence of Pathogenic Flaviviruses | Mishra, Bibhudutta; Aduri, Raviprasad | Zoology | FOOD AND ENVIRONMENTAL VIROLOGY | 2022 | 1867-0334 |
| 94 | Neuroprotective role of curcumin against benzo[a]pyrene-induced neurodegeneration in zebrafish | Satpathy, L., Parida, S.P. | Zoology | Biointerface Research in Applied Chemistry | 2022 | 2069-5837 |
| 95 | Dengue outbreak and severity prediction: current methods and the future scope | Balakumar, M., Vontela, H.R., Shinde, V.V., Kulshrestha, V., Mishra, B., Aduri, R. | Zoology | VirusDisease | 2022 | 2347-3584 |
| 96 | Estimation of longitudinal aerodynamic parameters using recurrent neural network | H.O. Verma & N.K. Peyada | Aerospace Engineering | The Aeronautical Journal | 2022 | 0001-9240 |
| 97 | Drought stress responses and inducing tolerance by seed priming approach in plants | Debanjana Saha, Prince Choyal, Udit Nandan Mishra, Prajjal Dey, Bandana Bose, Prathibha MD, Narendra Kumar Gupta, Brijesh Kumar Mehta, Pawan Kumar, Saurabh Pandey, Jyoti Chauhan, Rajesh Kumar Singha | Biotechnology | Plant stress | 2022 | 2667-064X |
| 98 | Genome-Wide Analysis and Characterization of the Proline-Rich Extensin-like Receptor Kinases (PERKs) Gene Family Reveals Their Role in Different Developmental Stages | Mahipal Singh Kesawat, Bhagwat Singh Kherawat, Anupama Singh, Prajjal Dey, Snehasish Routray, Chinmayee Mohapatra, Debanjana Saha, | Biotechnology | Plants | 2022 | 2223-7747 |

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| | and Stress Conditions in Wheat (<i>Triticum aestivum</i> L.) | Chet Ram , Kadambot H. M. Siddique , Ajay Kumar , Ravi Gupta , Sang-Min Chung and Manu Kumar | | | | |
| 99 | Marker-Free Rice (<i>Oryza sativa</i> L. cv. IR 64) Overexpressing PDH45 Gene Confers Salinity Tolerance by Maintaining Photosynthesis and Antioxidant Machinery. | Sahoo, R.K.; Tuteja, R.; Gill, R.; Jiménez Bremont, J.F.; Gill, S.S.; Tuteja, N. | Biotechnology | Antioxidants | 2022 | 2076-3921 |
| 100 | Linkage disequilibrium mapping: a journey from traditional breeding to molecular breeding in crop plants | Jyoti Prakash Sahoo, Upasana Mohapatra, Debanjana Saha, Iswar chandra mohanty and Kailash chandra samal | Biotechnology | Indian Journal of Traditional Knowledge | 2022 | 0972-5938 |
| 101 | Responsive role of nanomedicine in the tumor microenvironment and cancer drug resistance | Pratikshya Sa, Sanjeeb K Sahoo, Fahima Dilnawaz | Biotechnology | CURRENT MEDICINAL CHEMISTRY | 2022 | (Print): 0929-8673, (Online): 1875-533X |
| 102 | Nanoparticle-based CRISPR/Cas delivery: An emerging tactic for cancer therapy. | Fahima Dilnawaz, Sarbari Acharya | Biotechnology | Current Medicinal Chemistry | 2022 | 0929-8673 |
| 103 | Heterologous overexpression of PDH45 gene of pea provides tolerance against sheath blight disease and drought stress in rice. | Sahoo, R.K., Chandan, R.K., Swain D.M., Tuteja N, Jha, G | Biotechnology | Plant Physiology and Biochemistry | 2022 | 0981-9428 |
| 104 | Proteomic and Genomic Studies of Micronutrient Deficiency and Toxicity in Plants | Prusty S, Sahoo RK, Nayak S, Poosapati S, Swain DM | Biotechnology | Plants | 2022 | 2223-7747 |
| 105 | Comparative P solubilizing efficiencies of five acid soil bacteria | Madhusmita Pradhan, Rajeswari Das, Ranjan Kumar Sahoo, Totan | Biotechnology | Indian Journal of Biochemistry & Biophysics | 2022 | 0975-0959 |

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| | incubated with calcium, aluminium and iron phosphates | Adak, Chinmay Pradhan & Santanu Mohanty | | | | |
| 106 | Beneficial elements: New Players in improving nutrient use efficiency and abiotic stress tolerance | Rajesh Kumar Singhal, Shah Fahad, Pawan Kumar, Prince Choyal, Talha Javed, Dinesh Jinger, Prabha Singh, Debanjana Saha, Bandana Bose, H Akash, NK Gupta, Rekha Sodani, Devanshu Dev, Dalpat Lal Suthar, Ke Liu, Matthew Tom Harrison, Shah Saud, Adnan Noor Shah, Taufiq Nawaz | Biotechnology | Plant Growth Regulation, Springer | 2022 | 0167-6903 |
| 107 | Recent Advances in Agronomic and Physio-Molecular Approaches for Improving Nitrogen Use Efficiency in Crop Plants | Javed, Talha; Indu, I.; Singhal, Rajesh Kumar; Shabbir, Rubab; Shah, Adnan Noor; Kumar, Pawan; Jinger, Dinesh; Dharmappa, Prathibha M.; Shad, Munsif Ali; Saha, Debanjana; Anuragi, Hirdayesh; Adamski, Robert; Siuta, Dorota | Biotechnology | FRONTIERS IN PLANT SCIENCE | 2022 | 1664-462X |
| 108 | On-farm hydro and nutri-priming increases yield of rainfed pearl millet through physio-biochemical adjustments and anti-oxidative defense mechanism | Gupta, N. K.; Gupta, Sunita; Singh, Jogendra; Garg, Nitin K.; Saha, Debanjana; Singhal, Rajesh Kumar; Javed, Talha; Al-Huqail, Asma A.; Ali, Hayssam M.; | Biotechnology | PLOS ONE | 2022 | 1932-6203 |

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| | | Kumar, Ritesh; Siddiqui, Manzer H. | | | | |
| 109 | Anti-inflammatory activity of <i>Sabicea brevipes</i> Wernharm (Rubiaceae) | Attah, E.I., Ugwuagbo, S.C., Chinnam, S., Eze, F.I., Nnadi, C.O., Agbo, M.O., Obonga, W., Rudrapal, M., Walode, S.G., Nizam, A., Sahoo, R.K., Bendale, A.R., Khairnar, S.J., Jagtap, M.R. | Biotechnology | Pharmacia | 2022 | 0428-0296 |
| 110 | Investigating the impact of calibration timescales on streamflow simulation, parameter sensitivity and model performance for Indian catchments | Sridhara Setti, Kamal Kumar Barik, Bruno Merz, Ankit Agarwal, Maheswaran Rathinasamy | Civil Engineering | Hydrological Sciences Journal | 2022 | 0262-6667 |
| 111 | Satellite-Based Characterization of Phytoplankton Blooms in Coastal Waters of the Northwestern Bay of Bengal. | Suchismita Srichandan, Sanjiba K. Baliarsingh, Alakes Samanta, Amit K. Jena, Aneesh Anandrao Lotliker, T. M. Balakrishnan Nair, Kamal K. Barik, Tamoghna Acharyya | Civil Engineering | Journal of the Indian Society of Remote Sensing | 2022 | 0255-660X |
| 112 | High-Dimensional Model Approach for Stochastic Response of Multispan Box Girder Bridges | Deepak Kumar Sahu, Pradip Sarkar, Robin Davis and Sujith Mangalathu, A.M. ASCE | Civil Engineering | <u>Journal of Bridge Engineering</u> | 2022 | 1084-0702 |

6.2. Workshop and Conference

Different Schools of the University organised a number of seminars, workshops & conferences in-house. The details of these are presented in Table below.

Table 6.2: Details of Seminars, Workshops & Conferences Organised in 2022-23

| Sl. No | Name of the Workshop/ Seminar/ Conference | Date from - to |
|--------|---|--------------------------|
| 1 | Computational Fluid Dynamics Approaches In Civil Engineering | 27.09.2022 |
| 2 | The Phygital Experience -Internet Of Things In Industry 4.0 | 19 to 23 December, 2022 |
| 3 | Advancement In Trend Analysis Of Time Series Datasets | 25.02.2023 - 25.02.2023 |
| 4 | Drone Technology In Precision Agriculture | 10.02.2023 - 10.02.2023 |
| 5 | International Gis Day | 17.11.2022 - 17.11.2022 |
| 6 | ETABS - High-Rise Building Design | 16.09.2022 - 17.09.2022 |
| 7 | Entrepreneureship Development In Dairy Sector | 14/10/2022 |
| 8 | Computational Biology And Data Science Methods | 12.06.2021 - 14.06.2021 |
| 9 | Nano Technology And Use In Modern Medicine | 22.06.2022 |
| 10 | Current Trends In Pharmacy Profession | 14.07.2022 |
| 11 | Optimization Of Pharmaceutical Process Using Doe | 03.09.2022 |
| 12 | Drug Design Using Biovia Discovery Studio | 17.09.2022 |
| 13 | HPTLC- Instrumentation And It's Application | 21.09.2022 |
| 14 | Encouraging Reporting Of ADR By Patients | 23.09.2022 |
| 15 | Importance Profession Ready Training And Placement In Clinical Research And Pharmacovigilance | 28.10.2022 |
| 16 | In-Silico Development Of Vaccine Against Covid-19 | 05.12.2022 |
| 17 | Quality By Design Approach For Drug Product Development In Pharma Industry | 24.02.2023 |
| 18 | Applications Of Nano Materials In Drug Delivery | 21-01-2023 |
| 19 | Workshop On "Confidence- A Key Instrument In Entrepreneurial Success" | 21.02.2023 to 21.02.2023 |
| 20 | Mou Signing Ceremony With Maruti Suzuki India Limited | 03.03.2023 to 03.03.2023 |

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| 21 | One Day Online Workshop On Tableau | 05.04.2023 to 05.04.2023 |
| 22 | Technology, Jobs & Entrepreneurship | 18.03.2023 to 18.03.2023 |
| 23 | The Art And Science Of Handling Personal Effectiveness Through Emotional Intelligence | 15.04.2023 to 15.04.2023 |
| 24 | Ecological Indices And Ecosystem Services Of Estuaries: A Neww Approach To Assess Health Of Coastal Ecosystems | 08-08-2019 |
| 25 | Emerging Trends In Extension And Social Sciences Research | 23-10-2020 |
| 26 | Prospects Of Value Addition And Entrepreneurship Development In Fisheries Post Harvest Sector | 10-07-2020 |
| 27 | Microbiological And Biotechnological Approaches To Seafood Safety | 02-11-2020 |
| 28 | Integrated Multitrophic Aquaculture (IMTA): Aquaculture Intensification In An Eco-Friendly Way | 15-11-2020 |
| 29 | Emergence Of Antimicrobial Resistance In Aquaculture | 22-11-2020 |
| 30 | One Health Approach In Aquaculture | 10-03-2021 |
| 31 | Traditional And Advanced Methods For Quality Assessment Of Seafood | 15-05-2021 |
| 32 | Casting The Future Of Fisheries And Aquaculture | 22-06-2021 to 23-06-2021 |
| 33 | Conservation Of Protected Elasmobranch Species Listed In The Indian Wildlife Protection Act, 1972 | 14-07-2021 |
| 34 | Mucosal Health In Aquaculture | 06-09-2022 |
| 35 | Scope Of Doubling Fish Farmer's Income And Entrepreneurship Development Through Value Added Technologies | 08-10-2021 |
| 36 | Biofloc: A Sustainable Aquaculture, Challenges And Future Strategies | 18-12-2021 |
| 37 | Technical Interventions On Sustainable Aquaculture | 29/06/2022 |
| 38 | Novel Packaging Techniques And Labelling Of Fishery Products | 07-10-2022 |
| 39 | Fish Disease Management And Medicine | 15-07-2022 |
| 40 | Adverse Consequences Of Intensive Aquaculture | 29-09-2022 |
| 41 | Social Networking Analysis | 21-09-2022 |
| 42 | Habitat Suitability Modeling Of Pelagic Fishes | 11-01-2022 |

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| 43 | Sustainable And Holistic Approaches Towards Restoration Of Aquatic Ecosystems | 05-06-2022 |
| 44 | Impact Of Emerging Pollutants On Aquatic Organisms And Seafood Safety | 22-03-2022 |
| 45 | Seaweed Utilization And Product Development | 22-11-2022 |
| 46 | Sustainable Aquaculture And Good Aquaculture Practices | 03-01-2023 |
| 47 | Aspiring Youth For Agri-Aquapreneurship | 01-10-2023 |
| 48 | Responsible Fisheries: A New Way To Co-Governance | 02-08-2023 |
| 49 | Present Status Of Brackish Water Aquaculture | 03-02-2023 |
| 50 | Community Media For Social Development | 27-01-2022 |
| 51 | Introduction To 3D Game Design And Development Process | 05-02-2022 |
| 52 | Webinar On Voice Over | 19-08-2022 |
| 53 | Webinar On Mobile Journalism | 23-06-2022 |
| 54 | Media Visit To Nandigosh For The Detailed Study Of A Anchoring And Reporting | 02-Mar-22 |
| 55 | Media Visit To Doordarshan For The Detailed Study On Anchoring And Reporting | 22-Mar-22 |
| 56 | Webinar On Why Layout Is Important For A Newspaper | 21-May-22 |
| 57 | Workshop On Film Making. | 06-09-2022 |
| 58 | Workshop To XIM University. | 06-09-2022 |
| 59 | Workshop On Documentary Film-Making | 6 to 8 -01-2023 |
| 60 | Indian Flim Festival (Iffb 23) | 23- to 29-01-2023 |
| 61 | Documentary Film Making | 06.01.2023 To 08.01.2023 |
| 62 | Statistical Analysis Using Jamovi | 10.02.2023 |
| 63 | Training On Empowerment Of Women Through Self Help Groups | 28 Dec 22 |
| 64 | Personal Finance Basics | 17.11.2022 |
| 65 | Webinar On My Story- Motivational Session By Successful Innovators | 19.10.2022 |
| 66 | Webinar On “My Story- Motivational Session By Successful Innovators | 27.10.2022 |
| 67 | Webinar On “Role Of Management In Changing Global Scenario” | 17.09.2022 |
| 68 | Coffee House Event | 03.08.2022 |
| 69 | Training On “Entrepreneurship Opportunities For Self Help Groups” | 27.08.2022 |

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| 70 | International Conference Titled "Sustainable Initiatives In Agriculture, Business And Management-Trends And Way Forward (ICSIABM 2022) " | 22.07.2022 To 23.07.2022 |
| 71 | Webinar On “Importance Patent And Copyright In Academia” | 27.06.202 |
| 72 | Webinar On "My Story -Motivational Session By Successful Innovators" | 22.06.2022 |
| 73 | Plant Tissue Culture Techniques | 08 to 10th November |
| 74 | Orchid Cultivation And Production | 19th November |
| 75 | PCR And Its Applications | 30th January |
| 76 | RS-GIS And Its Applications Using QGIS | 26th February |
| 77 | International Conference On Agriculture & Rural Development (Agri-Vision-2023) | 27-29 January 2023 |
| 78 | Learning Made Easy With Simulia | 20 th March to 25 th March 2023 |
| 79 | Workshop On “Eco Craft, Hand Made Paper And Product Making | 20th May 2023 |
| 80 | Workshop On “Paper Pen Making And Dustless Chalk Production” | 26th May 2023 |
| 81 | Marine Biodiversity And Conservation – Indian Prospective | 22nd June 2022 |
| 82 | Protein Purification And SDS-PAGE | 01-02-2023 |
| 83 | Molecular Biology Techniques | 05-01-2023 |
| 84 | "Classwork To Examination: Professional Policies, Responsibilities, Code Of Conducts & Best Practices" | 30-05-2023 to of 30- 05-2023 |
| 85 | "Classwork To Examination: Professional Policies, Responsibilities, Code Of Conducts & Best Practices" | 30-05-2023 to of 30- 05-2023 |
| 86 | FDP On Different Techniques For Performance Improvement Of Self-Multiplexing Antennas | 06.06.2022 |
| 87 | FDP On Machine Learning, Deep Learning & Computer Vision Using MATLAB | 29.06.2022 |
| 88 | FDP On Computer Vision Using MATLAB | 09.07.2022 |
| 89 | FDP On Mobile Robotics Using MATLAB | 20.07.2022 |
| 90 | FDP On Disruptive Technologies And Engima Of Science, Engineering And Technology | 16.07.2022 |
| 91 | Artificial Intelligence And IOT Applications In Agriculture” By National Institute For MSME (Ni-Msme), Ministry Of MSME, Goi, Hyderabad | 28th -29th July 2022 |
| 92 | Workshop On “Mobile Robotics | 2.08.2022-4.08.2022 |

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| 93 | FDP On MATLAB And Simulink | 16.08.2022 |
| 94 | FDP On MATLAB Coding | 25.08.2022 |
| 95 | FDP On Electric Vehicle Modelling And Simulation Using MATLAB | 13.09.2022 |
| 96 | Workshop On “Automation Testing | 23.09.2022 |
| 97 | FDP On “Data Science Using MATLAB” | 24.09.2022 |
| 98 | FDP On “Industrial Internet Of Things” | 03.09.2022- 22.09.2022 |
| 99 | 2-Day Workshop On Full-Custom & Semi-Custom Ic Design Flow Using Cadence Tool | 14-15 Nov, 2022 |
| 100 | Webinar On E-Vehicles | 26th Nov, 2022 |
| 101 | The Phygital Experience - Iot In Industry 4.0 | 19th -23rd December 2022 |
| 102 | 1st CADFEM ANSYS Academic Innovation Conference 2022 | 9th December 2022 |
| 103 | FDP/SDP On “Robotics And Automation Using MATLAB | 6th January 2023 |
| 104 | A Webinar On On “Robotics And Automation | 25th January 2023 |
| 105 | The Role Of Social Design In Social And Political Movement (Sponsored By SPARC Funded Project By Moe, Govt, Of India) | 29-Mar-23 |
| 106 | Energy Simulation For Energy Conservation Building Code (ECBC) | 30-Mar-23 |
| 107 | Awareness Tech Session On Diabetes Care | 24-Mar-23 |
| 108 | Workshop On Build An Iot Applications With 32-Bit Microcontroller | 15-Mar-23 |
| 109 | 3- Days Workshop On Biomedical Signal Processing Using Matlab | 27-Mar-23 |
| 110 | PCB Design At A Glance Hands-On Learning Over Design Simulator, 2 Days Hands-On Workshop Over Simulator | 28-29 March 23 |
| 111 | Computational Fluid Dynamics Approaches In Civil Engineering | 27TH September 2022 |
| 112 | The Phygital Experience -Internet Of Things In Industry 4.0 | 19th-23rd December, 2022 |
| 113 | 4 Days Workshop On BIM | 29th mar-01st apr, 2023 |
| 114 | The Phygital Experience - Iot In Industry 4.0 | 19th Dec 2022 to 23rd Dec 2023 |
| 115 | The Smart Mobility – In Air On Ground | 29-Dec-22 |
| 116 | Seminar On Opportunity In Aakruti 2022 - National Level 3d -Design Contest. | 14th July,2022 |

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| 117 | On-Boarding Project With Essilor “Vision For Life” | 20th July,2022 |
| 118 | World Hepatitis Day Celebration By School Of Paramedics & Allied Health Sciences (Sopahs) | 28th July,2022 |
| 119 | Celebration Of International Microorganism Day By Sopahs | 17th September,2022 |
| 120 | World Sight Day & International White Cane Day Observation By Sopahs | 15th october, 2022 |
| 121 | World Anaesthesia Day Celebration By Sopahs,BBSR | 17th October,2022 |
| 122 | Faculty Development Program By Vice Chancellor, Centurion University Of Technology & Management, Bhubaneswar | 3rd November 2022 |
| 123 | Free Health And Vision Check-Up Camp At Sevak Old Age Home, Chhatia, Jajpur In Collaboration With Sopls And CSR Cell | 5th November,22 |
| 124 | World Radiology Day Celebration By Sopahs | 8th November,22 |
| 125 | Participation In Tarang Bazaar By Sopahs Students | 8th-10th November,22 |
| 126 | Fresher’s Day (Rubaru) Celebration At Sopahs | 11 th November |
| 127 | Childrens’ Day Celebration At Sopahs,2022 | 14th, November,22 |
| 128 | Inauguration Of Optical Store At Community Diagnostic Center, Centurion University Of Technology & Management, Bhubaneswar | 23rd december,22 |
| 129 | Cancer Awareness Seminar On The Topic: “Cancer Care To Cancer Cure: A Brighter Now” | 30th January,23 |
| 130 | Eye Camp At Totapada, Khordha | 17th february,23 |
| 131 | “Optical Dispensing And Dry Eye” | 21st and 22nd february,23 |
| 132 | Workshop On Ohthalmic Dispensing By Lenskart | 24th february,23 |
| 133 | Research Paper Wriing | 2nd March |
| 134 | Capacity Building Program | 29th April |
| 135 | Co-Po Calculation | 17th May |
| 136 | Classwork To Examination: Professional Policies, Responsibilities, Code Of Conducts & Best Practices | 29th may |
| 137 | Coffee House Event | 03.08.22 to 03.08.22 |
| 138 | Workshop On How To Start A Startup | 25.06.2022 to 25.06.2022 |

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| 139 | Customer Connect Program With Buyergains | 17.08.2022 to 17.08.2022 |
| 140 | Finance Mantras For Startups And Entrepreneurs | 25.08.2022 to 25.08.2022 |
| 141 | Career And Entrepreneurship Opportunities On Different Sectors After Management Studies | 30.08.2022 to 30.08.2022 |
| 142 | Career And Entrepreneurship Opportunities On After Business Analytics | 21.09.2022 to 21.09.2022 |
| 143 | Workshop On Go To Market | 15.11.2022 to 15.11.2022 |
| 144 | Seminar On Career Awareness Programme | 19.11.2022 to 19.11.2022 |
| 145 | Use Of IIOT On Retail Marketing | 06.12.2022 to 07.12.2022 |
| 146 | Indian Security Market Career Prospects And Entrepreneurial Opportunity | 24.01.2023 to 24.01.2023 |
| 147 | Methodology To Create Strong Vision And Business | 16.02.2023 to 16.02.2023 |
| 148 | Retrospect And Prospects Of Union Budget 2022 | 04.02.2023 to 04.02.2023 |
| 149 | Seminar On Diversity And Inclusion | 15.02.2023 to 15.02.2023 |
| 150 | Importance Of Evidence- From Crime Scene To Courtroom | 28/7/2023- 29/7/2023 |
| 151 | Ecological Indices And Ecosystem Services Of Estuaries: A Neww Approach To Assess Health Of Coastal Ecosystems | 08-08-2019 |
| 152 | Emerging Trends In Extension And Social Sciences Research | 23-10-2020 |
| 153 | Prospects Of Value Addition And Entrepreneurship Development In Fisheries Post Harvest Sector | 10-07-2020 |
| 154 | Microbiological And Biotechnological Approaches To Seafood Safety | 02-11-2020 |
| 155 | Integrated Multitrophic Aquaculture (IMTA): Aquaculture Intensification In An Eco-Friendly Way | 15-11-2020 |
| 156 | Emergence Of Antimicrobial Resistance In Aquaculture | 22-11-2020 |
| 157 | One Health Approach In Aquaculture | 10-03-2021 |
| 158 | Traditional And Advanced Methods For Quality Assessment Of Seafood | 15-05-2021 |
| 159 | Casting The Future Of Fisheries And Aquaculture | 22-06-2021 to 23-06- 2021 |

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| 160 | Conservation Of Protected Elasmobranch Species Listed In The Indian Wildlife Protection Act, 1972 | 14-07-2021 |
| 161 | Mucosal Health In Aquaculture | 06-09-2021 |
| 162 | Scope Of Doubling Fish Farmer's Income And Entrepreneurship Development Through Value Added Technologies | 08-10-2021 |
| 163 | Biofloc: A Sustainable Aquaculture, Challenges And Future Strategies | 18-12-2021 |
| 164 | Technical Interventions On Sustainable Aquaculture | 29/06/2022 |
| 165 | Novel Packaging Techniques And Labelling Of Fishery Products | 07-10-2022 |
| 166 | Fish Disease Management And Medicine | 15-07-2022 |
| 167 | Adverse Consequences Of Intensive Aquaculture | 29-09-2022 |
| 168 | Social Networking Analysis | 21-09-2022 |
| 169 | Habitat Suitability Modeling Of Pelagic Fishes | 11-01-2022 |
| 170 | Sustainable And Holistic Approaches Towards Restoration Of Aquatic Ecosystems | 05-06-2022 |
| 171 | Impact Of Emerging Pollutants On Aquatic Organisms And Seafood Safety | 22-03-2022 |
| 172 | Seaweed Utilization And Product Development | 22-11-2022 |
| 173 | Sustainable Aquaculture And Good Aquaculture Practices | 03-01-2023 |
| 174 | Aspiring Youth For Agri-Aquapreneurship | 01-10-2023 |
| 175 | Responsible Fisheries: A New Way To Co-Governance | 02-08-2023 |
| 176 | Present Status Of Brackish Water Aquaculture | 03-02-2023 |

7. Faculty & Staff Development Programmes

The Faculty and Staff are the most important resource of the University. The faculty strength includes 204 in Paralakhemundi campus, 166 in Bhubaneswar campus, 16 in Rayagada campus and 43 in Bolangir campus. To improve the faculty resource in line with the needs of the internal and external environment, the University recruit's new faculty and staff and upgrades their competencies on a continuous basis. During the year Faculty Development Programmes were organised in-house for enhancing domain knowledge, teaching learning skill and competencies in engaging with community. The details are presented in Table 7.1. Faculty and Staff are sponsored to participate in programs outside the university, in areas that are not covered in-house.

Table 7.1: Details of In-house Faculty Development Programmes (2022-23)

| Sl.No. | FDP Title | Dates delivered | No of training days | Resource person Name |
|--------|--|-------------------------|---------------------|---|
| 1 | Computational Fluid Dynamics Approaches In Civil Engineering | 27.09.2022 | 1 | Prof. Abhinash Mohanta |
| 2 | The Phygital Experience -Internet Of Things In Industry 4.0 | 19 to 23 December 2022 | 5 | Prof. Amit Kumar Sahu, Prof. Anit Kumar Sahu, Prof. Satish Deshpande, Prof.Nishant Dean |
| 3 | Hyperspectral Remotesensing And Its Applications | 16 to 17 September 2022 | 2 | Dr. Prafulla Kumar Panda |
| 4 | National Seminar On Sustainable Building Materials And Construction | 22 to 23 September 2022 | 2 | Parof. Sovan Sankalp |
| 5 | Drug Design By Using Biovia Discovery Studio | 17.09.2022 | 1 | Prof. Anshuman Panda |
| 6 | Motivational Session By Successful Innovators | 27.10.2022 | 1 | Prof. Anshuman Panda |
| 7 | Waste Management In Pre And Post Disaster And Scenario | 11.07.2022 | 1 | Prof. Anshuman Panda |
| 8 | IELTS Workshop | 11.11.2022 | 1 | Prof. Anshuman Panda |
| 9 | Wealth Creation Through Plastic Waste Management | 12.02.2022 | 1 | Prof. Anshuman Panda |
| 10 | Ielts Test | 15 to 21 December 2022 | 7 | Prof. Anshuman Panda |
| 11 | Alumni Talk - Department Of Mechanical Engineering | 23.12.2022 | 1 | Prof. Anshuman Panda |
| 12 | Smart Mobility In Air And On Ground | 29.12.2022 | 1 | Prof. Anshuman Panda |
| 13 | Using Sophisticated Instrumental Approaches To Characterize Novel Drug Delivery System | 24 to 30.11.2022 | 7 | Prof. Ayushi Pradhan |

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| 14 | Advanced Instrumental Techniques In Chemistry And Material Sciences | 9 to 15.05.2022 | 7 | Prof. Himansu Bhusan Samal |
| 15 | Rasa Chikitsa In Lifestyle Disorder & Digitalize Your Ayush Practice | 27.12.2022 | 1 | Prof. Sukanta Satapathy |
| 16 | Ip Awareness | 22.07.2022 | 1 | Prof. Bharatbhusan Sahu |
| 17 | Drug Design By Using Biovia Discovery Studio | 17.09.2022 | 1 | Prof. Gopal Krishna Padhy |
| 18 | Trending Research And Innovation In Pharmaceutical Sciences | 22.07.2022 | 1 | Prof. Gopal Krishna Padhy |
| 19 | Implementing Universal Value Education In Technical Institutes | 27.06.2022 to 07.07.2022 | 5 | Prof. Brijlal Mallik |
| 20 | Fdp On “Structural Equation Modeling Using AMOS | 07.06.2022 to 13.06.2022 | 7 | Prof. Tapas Bantha |
| 21 | Resource Person To Deliver Training Sessions In “Bonanza Portfolio Ltd, Bhubaneswar | 31 & 1.06.2022 | 2 | Prof. Subhramaya Nayak |
| 22 | “Inculcating Universal Human Values In Technical Education” | 27.06.2022 to 01.07.2022 | 5 | Prof. Brijlal Mallik |
| 23 | Global Symposium On Soil For Nutrition | 26 to 29.07.2022 | 4 | Prof. Grihalakshmi Kakani |
| 24 | The Art Of Publishing An Academic Book | 13.07.2022 | 1 | Prof. Tapas Bantha |
| 25 | Resource Person To Deliver Training Sessions In “In Odisha Capital Market And Enterprises Ltd” | 11 & 12.07.2022 | 2 | Prof. Subhramaya Nayak |

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| 26 | International FDP- Cum-Workshop On PLAGIARISM DETECTION & REMOVAL IN RESEARCH PAPER AND Phd THESIS USING SOFTWARE | 31.07.2022 | 1 | Prof. Kalee Prasanna Pattanayak |
| 27 | Resource Person “ Research, Publication And Patent In Humanities And Science” Organized By Department Of English And Other Foreign Languages, SRM Institute Of Science And Technology, Chennai | 22.08.2022 to 30.08.2022 | 9 | Prof. Prajna Pani |
| 28 | “Universal Human (Uhv-Ii)” | 08.08.2022 to 12.08.2022 | 5 | Prof. Brijlal Mallik |
| 29 | Regional Meet Organized By Entrepreneurship Institute Of India | 18.08.2022 | 1 | Prof. Susant Kumar Pattnaik |
| 30 | Judge In Yuva Utsav | 27.09.2022 | 1 | Prof. Susanta Kumar Patnaik |
| 31 | “Literature Review, Research Problem Identification And Research Gaps In Your Study” | 01.09.2022 | 1 | Prof. Tapas Bantha |
| 32 | Webinar On Handy Tips On Writing The Introduction Of Your Research | 02.09.2022 | 1 | Prof. Tapas Bantha |
| 33 | A Webinar On “How To Write The Methodology Section Of Your Manuscript With A Justification For The Selected Methods” | 03.09.2022 | 1 | Prof. Tapas Bantha |

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| 34 | Webinar On “Handy Tips On How To Write The Findings And Discussion Of Your Manuscript” | 22.09.2022 | 1 | Prof. Tapas Bantha |
| 35 | Six Days Short Term Professional Development Programme On ‘Capacity Building Of Teachers Of Formal Universities On Design And Development Of Online Programme’ | 10.10.2022 To 15.10. 2022 | 6 | Prof. Prajna Pani |
| 36 | Workshop On Digital Creativity Skills | 28.11.2022 | 1 | Prof. Girish Prasad Rath |
| 37 | Resource Person To Odisha Capital Market And Enterprisers Ltd , Bhubaneswar | 14 & 15.11.2022 | 2 | Prof. Subhramaya Nayak |
| 38 | National Webinar On “Financial Empowerment And Career Opportunities In The Financial And Securities Market” | 15.12.2022 | 1 | Prof. Subhramaya Nayak |
| 39 | Webinar On “Managing Personal Finance And Wealth Creation” | 16.12.2022 | 1 | Prof. Subhramaya Nayak |
| 40 | Stellar Intensity Interferometry: A Rejuvenated High Resolution Imaging Technique Inter-University Centre For Astronomy And Astrophysics | 24.05.2022 | 1 | Prof. Subrata Sarangi |
| 41 | Adobe Atal Master Educators | 28.11.2022 | 1 | Prof. Padmaja Patnaik |
| 42 | International Conference On Climate Resilient Construction And Building Materials | 3 to 5 March 2023 | 3 | Prof. Sovan Sankalp |

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| 43 | Entrepreneurship Development In Dairy Sector | 14.10.2023 | 1 | Prof. Soma Maji |
| 44 | Adobe Digital Creativity Skills Faculty Development Programme | 27.02.2023 | 1 | Prof. Rajashree Jena |
| 45 | Benefits Of Open-Mindedness | 10.03.2023 | 1 | Prof. Sunil K. Jha |
| 46 | Recent Advances In Materials | 28 & 29.12.2023 | 2 | Prof. Anshuman Panda |
| 47 | CCDC - Developing Course Material In Courseware | 01.04.2023 | 1 | Prof. Anshuman Panda |
| 48 | Robotics And Automation Using MATLAB | 01.06.2023 | 1 | Prof. Anshuman Panda |
| 49 | International Conference On Agriculture And Rural Development - Meeting Preparedness | 01.12.2023 | 1 | Prof. Anshuman Panda |
| 50 | All Faculty Meeting Of MSSOA, SOABE And Fisheries With Vice - Chancellor Madam | 31.12.2023 | 1 | Prof. Anshuman Panda |
| 51 | Au Pharmacon 2022 | 22 & 23.07.2023 | 1 | Prof. Sukanta Satapathy |
| 52 | IP Awareness | 27.02.2023 | 1 | Prof. Sukanta Satapathy |
| 53 | Ip Awareness | 09.01.2023 | 1 | Prof. Bharatbhusan Sahu |
| 54 | Ip Awareness | 27.02.2023 | 1 | Prof. Gopal Krishna Padhy |
| 55 | Jury Member In The District Youth Parliament Festiva Conducted By Neheru Yuva Kendra | 27.01.2023 | 1 | Prof. Susanta Kumar Patnaik |
| 56 | Resource Person In The Workshop “ Statistical Analysis Using Jamovi” | 10.02.2023 | 1 | Prof. Debi Prasad Satapathy |
| 57 | Webinar On Impact Of Union Budget 2023; Conducted By ASBM University | 04.02.2023 | 1 | Prof. Subhramaya Nayak |

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| 58 | Workshop On Digital Creativity Skills | 27.02.2023 | 1 | Prof. Sushant Kumar Pattnaik |
| 59 | 7th International Conference On Nanoscience And Nanotechnology (ICONN-2023) | 27 to 29.03.2023 | | Prof. Dojalisa Sahu |

8. Recognitions & Achievements

Recognitions

Ph.D. Awarded

- *Indushekhar Samanta In Electronics And Communication Engineering “Machine Intelligent Techniques Application To Power Quality Assessment And Monitoring”*
- *Sujit Mishra In Mechanical Engineering “Aerodynamic Simulation For Simplified Cars Moving In Dusty Fluid Medium”*
- *S. N.Raju Kalidindi In Electronics And Communication Engineering “Investigations On Implementation Of Reconfigurable Fir Filter With Control Logic For 5g Applications”*
- *Annepu Lakshmunaidu In Mechanical Engineering “Investgations Of Industrial Safety Helmet Using Hybrid Natural Fiber Composite”*
- *Sudeep Kumar Singh In Mechanical Engineering “An Improved Methodology For Milling Parameter Optimization Using Swarm Intelligence Approaches”*
- *Kanta Naga Rajesh In Civil Engineering “Studies On Ambient Cured Slag Based Alkali Activated Binder Composite”*
- *Suman Pandipati In Mechanical Engineering “Frugal Approach Of Friction Stir Processing For Joining Of Aluminium & Aluminium Alloys And Multiresponse Optimization Of Process Parameters Using Taguchi Gra-Pca”*
- *Sasank Shekhar Panda In Mechanical Engineering “Processing Characterization And Dry Sliding Wear Response Of Industrial And Agro Waste Reinforced Aluminum Metal Matrix Composites”*
- *Debendra Kumar Sahoo In Electronics And Communication Engineering “Brain Image Analysis Using Advanced Machine Learning Technique”*
- *Bijay Kumar Paikaray In Computer Science Engineering “An Extensive Study On Medical Image Security Using Region Based Analysis”*

- *Madhusmita Shial In Electronics And Communication Engineering “Performance Analysis Of Atsc 3.0 And 5g Technology In Digital Terrestrial Broadcasting”*
- *Damala Rajesh Babu In Electrical And Electronics Engineering “Design And Development Of A Teager Energy Algorithm For Fault Analysis Of Dfig Integrated Hvdc Transmission Links”*
- *Padma Mahanti In Management “Designing Tiger Centric Management Strategies Based On Spatial Distribution And Occupancy Of Tigers In Periyar Tiger Reserve”*
- *Madhusmita Parida In Chemistry “Synthesis And Characterization Of Abradable Coatings Used In Aero Engines And Its Corrosion Behaviour Studies”*
- *Satya Sreedevi Redla In Mathematics “Face Recognition System Based On Invariant Moments (Frsim)”*
- *Saraswati Devi In Physics “Investigations Of Structural, Dielectric And Electrical Properties Of Some Lead Free Tungsten Bronze Niobate Ceramics”*
- *Suchismita Acharya In Chemistry “Studies On Synthesis And Applications Of Zno And Cu Doped Zno Nanostructures”*
- *Gouri Kumar Sahu In Physics “Study Of Dielectric, Ferroelectric And Conduction Behaviour Of Rare Earth Doped Strontium Bismuth Tantalate Ceramics”*
- *Ashok Kumar Mahapatra In Physics “Structural, Dielectric And Optical Study Of Aliovalent Doped Barium Titanate Ceramic For Electronic Applications”*
- *Bhagyashree Panda In Zoology “Studies On Ecology And Breeding Behaviour Of Some Selected Anuras Of Odisha”*
- *Sunita Sahoo In Physics “Investigation Of Dielectric And Conduction Mechanism Of Rare-Earth-Doped $\text{Bi}_{0.5} \text{Na}_{0.5} \text{Tio}_3 - \text{Batio}_3$ Ceramic Around The Morphotropic Phase Boundary”*

Achievements

- Centurion University of Technology and Management received Certificate of Accreditation from National Accreditation Board for Testing and Calibration Laboratories (NABL) for “General Requirements for the Competence of Testing & Calibration Laboratories”.
- Centurion University of Technology and Management received Certificate for E-Waste Recycling from CEO, Hulladek Recycling Pvt. Ltd. Kolkota 2022.
- Centurion University of Technology and Management, Odisha, was rank-band 151-200 by National Institutional Ranking Framework, (NIRF) 2022.
- Centurion University of Technology and Management was ranked 14th by Outlook-ICARE India University Rankings 2022: Top 50 State Private Universities.
- School of Agriculture got ICAR accreditation for MSc Ag (Agriculture Extension Education, Agronomy, Genetic & Plant Breeding) for PKD campus
- School of Paramedics and Allied Health Science, CUTM, Bhubaneswar Campus got renewal from DMET. Odisha.
- School of Pharmacy and Life Sciences, Balasore Campus got approval of extension 60 seat to 100 seat from Pharmacy Council of India. The campus has also got the approval for B.Sc. Nursing programme.
- Prof. Debashree Debadatta Behera, Asst. Professor, SoET, Department of Mechanical Engineering, Bhubaneswar Campus received International Women Researcher Award For The Contribution And Honourable Achievement In Innovative Research-2022 from Science Father, Ministry of Corporate Affairs (MCA), Govt. of India.
- Dr. Ramesh Chandra Mohanty, Professor, SoET, Department of Mechanical Engineering, Bhubaneswar Campus received Teaching and research excellence under the category Pride Of India Awards-2022, from International Council of Social Reforms & Research (India Education Charitable Trust, Ghaziabad).
- Dr. Supriya Pattanayak, Vice-Chancellor, Centurion University got grant from Australia Victoria University (Life time Alumni award)

- Dr. Rukmini Mishra, has got DBT Project, entitled “Ecotyping, chemotyping and genotyping of *Embelia ribes* Brum F. for authentic identification, selection and conservation of elites” from National Medicinal Plants Board, Govt. of India, Ministry of Ayush
- Dr. Preetha Bhadra, has got Food Testing Lab Project grant Rs.317.70 Lakhs from Ministry of Food Processing Industries for setting up food testing of laboratory at CUTM, Paralakhemundi Campus.
- Dr. Sangram Keshari Swain, Dean, Examinations and Dean, Students Welfare was invited by Govt. of Odisha & UNDP as Panellists during the Panel discussion on “Craft and Waste” in the “International Craft Summit” 2023 at Jajpur on 20th & 21st January 2023. He participated in the Mega Summit and represented Centurion University of Technology & Management and the Research Center for Waste to Wealth Management.
- 4 students from School of Fisheries qualified in Junior Research Fellowship in 2022. One of the students from Fisheries got the 7th All India rank here.
- Mr. Subhasish Sahoo B.Tech. Ag 4th Year Selected in TOP 10 amongst the selected ideas for Start-up and got 1 Lakh Cash Prize
- Biswajeet Kuldeep B.Tech. Ag. Got 1st prize in sports Gym deadlift & bench press categories of 65 kg, in PKD CUTM.
- Debi Prasad Dhal B.Tech. Ag. Got 1st prize in Inter Department Cricket Tournament, 2nd prize in 5A side Football Match, in CUTM Paralakhemundi Campus.
- Centurion University students went to Paris for showcasing their Projects on Konark Temple. It was 3D experience project on Dassault platform and the project by CUTM students stood first in the Heritage project category.
- CUTM has established School of Veterinary and Animal Sciences which will offer B. V. Sc. Once approved by Veterinary Council of India.

9. Collaborations & Networking

During the year the University signed MoUs with 26 institutions within the country and 7 institutions outside the country. The details are presented in Table 9.1. Our relationship with existing collaborators have been deepened and widened.

Table 9.1: Details of Collaboration

| Sl. No. | Partner Institution | Scope |
|---------|---|---|
| 1 | MoU with Madhya Pradesh State Skill Development and Employment Generation Board, Madhya Pradesh | Assessment and Certification of trainees under various skill development schemes |
| 2 | MoU with ACEM Mediation India, New Delhi | Teaching and training on meditation for students, teachers, and other stakeholders |
| 3 | MoU with ProFarm Seed India Pvt. Ltd, Secdrabad | Foundation Seed Agreement for Field Corn, Rice & Vegetables |
| 4 | MoU with Dassault Systems Foundation, Pune | To implement project titled "Cost effective ICT Data Analytics System for Efficient Management of Water and Fertilizer in Precision Agriculture" |
| 5 | MoU with Nutoday Pvt Ltd, Banglore | For Nutra and food processing industry |
| 6 | MoU with Forest College & Research Institute, FCRI, Hyderabad | For Develop Cooperation and collaboration in Education, Research, Management |
| 7 | MoU with Central Building Research Institute, Roorkee, CSIR | Exchange of faculty and students for the purpose of research, learning and teaching |
| 8 | MoU with RND Softech Private Limited, Coimbatore | For Employing as Member PED at RND Soft's Coimbatore facility. |
| 9 | MoU with ICAR - Indian Institute of Vegetable Research, New Delhi | For Okra variety/hybrid developed |
| 10 | MoU with ICAR - Indian Institute of Vegetable Research, New Delhi | For Seed of Kashi Shrishti |
| 11 | MoU with Trishakti Homes Consultancy Pvt. Ltd. Hyderabad | For Cultivating the crops |
| 12 | MoU with Clicks Talent Connet Pvt. Ltd, Bangaluru | For the purpose of enriching the skills and to jointly work for enhancing the quality of employability of students by providing access to clicks campus career and skilling platform. |

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| 13 | MoU with International Transeducation Consultants LLP, Vishakapatnam | To recruit the international and domestic students in CUTM, Through ITEC entitled to recruit on behalf of CUTM. |
| 14 | MoU with PC Shrama Eye-Hospital, Hariyana | Building institutional collaboration for arranging support towards clinical teaching, practical training, faculty development, internship training and placement of paramedical and allied health science students of the Centurion University |
| 15 | MoU with Western Sydney University, Australia | For sets out the procedural and legal framework between the parties for articulation of courses or units of study |
| 16 | MoU with ICAR-National Rice Research Institute (NRRI), ICAR Cuttack, Odisha | For facilitating students Training/ Postgraduate Research |
| 17 | MoU with IBN Tofail University Kenitra (Morocco) | For Development of joint studies, training activities and other educational programme of mutual interest |
| 18 | Epowerx Learning Technologies Private Limited (Skill-Lync), Chennai | Centurion University Of Technology & Management (CUTM) undergraduate/graduate students upskill themselves. This collaboration will help in furthering the Centurion University Of Technology & Management (CUTM) & the country's Skill India Mission. |
| 19 | MoU with Sahasra Crop Science Private Limited, Hyderabad | For training, action research, studies, policy analysis, policy advice, consultancy, monitoring, evaluation, system development and technology development, nano technology, fermentation technology for agriculture and agri biotechnology segments |
| 20 | MoU with Epitome.ai, Bangaluru | For Training, Common Course Development, Internship and Placement |
| 21 | MoU with Unisem Agritech Pvt. Ltd., Karnataka | |
| 22 | MoU with Universite International De Rabit (UIR), Morocco | For the purpose of furthering cooperation through educational and academic exchanges, the parties hereby agree to foster the establishment of a mutually beneficial relationship for their institutions. |
| 23 | MoU with Higher Institute for Maritime Studies (ISEM) CASABLANCA , MOROCCO | The purpose of this MOU is to establish and to enhance the cultural scientific and educational exchanges between the parties in their fields of expertise, namely, the maritime domain and to |

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| | | facilitate the implementation of common projects. |
| 24 | MoU with Ministry of Transportation, Gabon | For set up a public-private partnership for the development and management of a center for maritime studies in gabon and the management of the national ship registry |
| 25 | MoU with LE Ministere Des Transports, Gabon | |
| 26 | MoU with Advance Mechanical Services Pvt. Ltd. (AMS-India) | Setting up Centurion University Research and Innovation Centre for Automation and Additive Manufacturing (CURI-CAM) |
| 27 | MoU with Apnatime Tech Private Limited, Bengalure | The purpose of this collaboration is to connect skilled students with the employers in the industry. This collaboration is non-monetary in nature. |
| 28 | MoU with International Crops Ressearch Institute for the Semi-Arid Tropics (ICRISAT) Telangana | The Sustainable improvement of Rural livelihoods and restoration of coconut - based livelihoods through specific science based interventions |
| 29 | MoU with NIIS Institute of Busines Administration (NIBA)(NISS), Khurda, Odisha | To Develop academic and educational cooperation and knowledge sharing and between the two parties. |
| 30 | MoU With AOM Golbal SA, Gabon | Implementation of technological instruments to help the planning, development and the management of the High Productivity Agricultural Zone of Andem |
| 31 | MoU with Schneider Electric India foundation, Bangalore | For Training of trainers and trainees with industry relevant latest technologies in the field of industrial automation |
| 32 | MoU With National Law University, Odisha, NLUO | For develop academic and cultural collaboration in the areas of education, research and other activities. |
| 33 | MoU With Genotypic Technology Pvt. Ltd.Karnataka | This will facilitate and strengthen our research and services related to Genomics. |

10. Events

10.1 CSR Activities

The University organised a number of events in the areas of Culture, Sports & Socially Responsible activities.

Cultural Activities

- Working on CUTM student Newsletter, Wall Magazine, and Annual Magazine,
- Organising/participating in dance, music or drama events.
- Preparing artistic works (e.g. murals) for beautification of CUTM.
- Participating in any event organised by the clubs under cultural activities.
- Painting and Photography etc.....



Sport Activities

- Participating in individual and team sports of the Institute
- Taking part in sporting expeditions.
- Participating in Health Club/Yoga Club.
- Participating / organising any adventurers' activities.
- Organising a college marathon/other sporting event etc.....



Socially Responsible Activities

- Any activities which benefit the community or environment.
- Plantation inside or outside CUTM.
- Visiting and helping in hospitals or orphanages.
- Blood donation camp.
- Organising Health check up camp.
- Save environment from pollution camp.
- Educational camp for population control.

- Organise disaster service camp.
- Socio-economic survey.
- Take emergency relief measures to the victims of natural disaster.
- Development of the sense of integration and friendliness.
- Volunteering with local NGOs, or coming up with your own social/environmental project in a group of students and working on it.
- Youth Red Cross activities.
- Fund raising for social/environmental projects etc.





10.2 Distinguished Visitors

There were a number of distinguished persons who visited the University during the year, the same are presented in Table below.

Table 10.2: Distinguished visitors

| Sl. No | Name of Visitors | From |
|--------|--|--|
| 1 | Mr. Iain Martin, Vice Chancellor | Deakin University, Australia |
| 2 | Mr. Peter Wuffli | Founder & Chairman, Elea Foundation for Ethics in Globalization, Switzerland |
| 3 | Mr. Willy K Bett | High Commissioner of Kenya |
| 4 | Dr. Ved Kumari | Vice Chancellor, National Law University, Odisha |
| 5 | Justice S. Muralidhar | Chief Justice, Odisha High Court |
| 6 | Ms. Rekha Lohani, IPS | Addl.D.G.of Police, (CAW & CW) |
| 7 | Dr. J.K. Jena, DDG (Fisheries Science) | ICAR, Govt. of India, New Delhi |

10.3 Acknowledgements

The University is grateful to number of Institutions and Individuals for their generous support in pursuing its mission and vision. Some of the agencies who supported during the year are listed below.

- i. Government of India
- ii. Government of Australia
- iii. Government of Norway
- iv. other National Governments
- v. International and National Organizations
- vi. Government of Odisha
- vii. Other State Government and their Agencies
- viii. International, National and State Level Companies
- ix. Academic and Research Institutions
- x. Civil Society Organizations
- xi. Individual Donors and Well Wishers.

Vision

- Provision of quality, globally accredited academic programmes in technology and management.
- Provision of globally accredited employability training for less endowed segments of the population.
- Promotion of entrepreneurial culture and enterprise in the target areas.
- Facilitating improved market access to goods and financial services to the target population.
- Promotion of lighthouse project interventions in the target area.

Mission

- A globally accredited human resource centre of excellence catalysing "sustainable livelihoods" in the "less developed markets across the globe".



Centurion University of Technology & Management, Odisha



**CENTURION
UNIVERSITY**
*Shaping Lives...
Empowering Communities!*

Paralakhemundi Campus: At - Village Alluri Nagar, P.O. - R Sitapur, Via- Uppalada, Paralakhemundi, Dist: Gajapati – 761211

Odisha, India Phone: (06815) 222999, (06815) 223088, Fax: (06815) 222150

Bhubaneswar Campus: At – Ramchandrapur, P.O. - Jatni, Bhubaneswar, Dist: Khurda – 752050, Odisha, India

Phone: (0674) 2492496, Fax: (0674) 2490480

Visakhapatnam Campus: MIG 33 Vuda Colony Phase - I, Madhavadhara, Visakhapatnam (Andhra Pradesh), Pin: 530018 Phone: 0891 2723491

Corporate Office: HIG – 4, Jayadev Vihar, Opp – Pal Hights. Bhubaneswar, PIN – 751013, Dist: Khurda, Odisha, India.

Tel: +91 (0674) 2596228, Fax: +91 (0674) 2596229

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