

# ANNUAL REPORT

## 2021-22

### Board of Governors

Sl. No.	Name	Designation
1	His Excellency Prof. Ganeshi Lal Hon'ble Governor of Odisha	Visitor
2	Prof. Mukti Kanta Mishra, President, CUTM	Chairman
3	Prof. D. N. Rao, Vice President, CUTM	Member
4	Prof. Supriya Pattanayak, Vice Chancellor, CUTM	Member
5	Shri Saswat Kumar Mishra, IAS	Ex Officio Member- Govt. of Odisha
6	Prof. Sudhakar Panda	Nominee- Govt. of Odisha
7	Prof. Omkar Nath Mohanty	Nominee- Govt. of Odisha
8	Dr. Mary Bage	Nominee- Govt. of Odisha
9	Shri. PNSV Narsimham	Trust Nominee
10	Dr. Mohan Kanda, IAS (Rtd.)	Trust Nominee
11	Shri. Aditya Sapru	President Nominee
12	Dr. C.R. Rao	Trust Nominee
13	Prof. Anita Patra, Registrar, CUTM	Ex Officio Member Secretary

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## List of Abbreviations

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

**OPHWC-** 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 2021 to March 2022. 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 32 Certificate courses, 12 Diploma courses, 85 Skill courses, 73 under-graduate courses, 55 post-graduate courses and Doctoral program through 11 schools. Due to innovative curriculum, the Centurion University received the Outlook-ICare Ranking of 15. Our university has been successful in getting two Atal FDPs: Computational Fluid Dynamics and another in the area of Additive Manufacturing. 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 8630 by end of 2021.

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. The 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. We have extended the affordable health care services to the local community through a newly established Community Diagnostic Centre. Massive COVID vaccination drive was also carried out. Our sports facilities are also open to local community around us such that they can protect their health and well-being. 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. At present, 81 MoUs are active and are regularly reviewed. During the past year, the University signed MoUs with 27 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. 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

- BSc Wellness and Cosmetology
- BSc Marine Operations
- BSc Pharma Chemistry
- Master of Optometry
- MSc Nutraceuticals
- MSc Plant Genomics
- MCA
- MSc Geoinformatics
- M.Pharm
- B.Sc. Animation and Multimedia
- B.Voc
- B.Tech Mechanical with Marine Domain





## 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 2021-22 Academic year 2863 number of students were admitted in the university. It includes 522 in Diploma Programmes, 1735 in Bachelor Programmes, 556 in Master Programmes & 50 in Doctoral Programmes. The details are indicated in Table 3.1.

**Table 3.1: Admission Mix in Academic Year 2021-22**

Programme	Branch	Male	Female	Total
<b>B. Tech.</b>	Agri. Tech	24	4	28
	Civil	33	4	37
	ECE	30	3	33
	EEE/EE	18	0	18
	CSE	424	86	510
	Mechanical	57	0	57
	Phyto	8	5	13
	Dairy Tech.	3	0	3
	MI	19	0	19
	Biotechnology	13	10	23
	Aerospace	9	0	9
<b>MBA</b>	MBA (DM/AM)	8	4	12
	MBA Data Analytics	31	17	48
	MBA PM	3	2	5
<b>B.Sc.</b>	Chemistry	9	12	21
	Mathematics	1	2	3
	Physics	8	2	10
	Optometry	9	13	22
	Botany	3	8	11
	Zoology	9	29	38
	Forensic Science	14	8	22
	MRT	27	24	51
	Radiology	1	1	2
	MLT	21	18	39
	MB	5	16	21
	Operation Theatre Technology	2	6	8
	Physiotherapy	10	11	21
AT	2	1	3	
<b>M.Sc.</b>	Chemistry	14	30	44
	Mathematic	2	5	7
	Physics	18	14	32

	Medical lab. Technology (MSc MLT)	9	21	30
	Microbiology	18	38	56
	Botany	17	66	83
	Zoology	31	107	138
	Forensic Science	7	10	17
	M. Sc.in Cyber Security & Digital Forensics	11	5	16
<b>M. Tech.</b>	Data Science	0	2	2
	Design and Manufacturing	5	0	5
	Power System and Control	1	0	1
	Structural Engineering	1	0	1
	Transportation Engineering	5	2	7
<b>BBA</b>	BBA	86	48	134
<b>BCA</b>	BCA	16	5	21
<b>B. Pharm.</b>	B.PHARM	166	51	217
<b>D. Pharm.</b>	D.PHARM	120	59	179
<b>Diploma</b>	Civil	75	3	78
	Mechanical	63	0	63
	Electrical	92	3	95
	Computer Science Engineering	66	21	87
	AE	1	0	1
	Mining	19	0	19
<b>MSSSoA</b>	B.Sc. (Ag.)	167	113	280
	B.Sc. (Fish.)	35	16	51
	M.Sc. (Ag.)	27	25	52
<b>B.Com.</b>	Commerce	9	1	10
<b>Ph.D.</b>	Computer Science Engineering	1	1	2
	Civil	1	0	1
	ECE	3	0	3
	Physics	0	1	1
	Chemistry	0	1	1
	Mechanical	3	0	3
	EEE	2	0	2



	Humanities	0	1	1
	Botany	1	2	3
	Agriculture	4	0	4
	Paramedics	1	1	2
	Inter Disciplinary	0	2	2
	Pharmacy	2	4	6
	Management	13	6	19
	<b>TOTAL</b>	<b>1913</b>	<b>950</b>	<b>2863</b>

#### 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 1318 offers from 208 Companies in 2020-21. 56.27% of eligible engineering, 33.91% of eligible agriculture and 25% of eligible management students were placed successfully. 46 Students of the School of Agriculture qualified in Junior Research Fellowship in 2021.

**Table 4.1: Students Placed in Different Organisations**

Sl. No.	Name of the Company	No of Students Placed
1	3Axial Steel Detailing Services Pvt. Ltd.	1
2	7th Heaven Homes	4
3	AABSyS	2
4	Acadecraft Inc	2
5	Accenture	6
6	Access Development	3
7	Accolite	0
8	AcesoCloud Software	3
9	Aculife Healthcare	1
10	AIMDek Technology	0
11	Allsec Technologies	50
12	ALTAIR	0
13	AMAZON	0
14	Amrut Energy	1
15	Anchalik Jana Kalyan Anusthan	1
16	Annarpurna Microfinance	0
17	Apisero	1
18	Apmosys	6
19	Apollo Pharmacy	58
20	Appinventiv Technologies	1
21	Aries Agro Ltd.	4
22	Avani Agro Farms and Seeds	4
23	AZTEC Process Automation P Ltd.	0
24	Berger Paints	0
25	Bizzrun	5

26	BNP Paribar	1
27	BNY MELLON	0
28	Bottomline Technologies	0
29	BRIGHTCHAMPS	13
30	Byju's	27
31	BYJUS TAP	6
32	Capgemini	2
33	Carigar Tools	11
34	Centre for Sight	1
35	Chaitanya Eye Hospital	3
36	Chargebee	1
37	Clink Softech	4
38	Cognizant	17
39	Collabera IT Services Pvt Ltd	0
40	Computer Lab	0
41	Coromandel International Ltd	1
42	CRM Next Technologies	0
43	CSS Crop	2
44	Cvent	0
45	Dassault Systems	0
46	Dhanuka Agritech	1
47	Dial & Deal	1
48	DTDC	0
49	DuFlora Agri Products Pvt Ltd	0
50	East & West Seeds	2
51	Eclerx Services	1
52	eClinicalWorks	2
53	EDWISOR	13
54	Efftronics Systems Pvt Ltd	0
55	Employment Express Verbant LLP	18
56	EPISOURCE PVT. LTD	3
57	ESAF Small Finance Bank	0
58	Evosys	0
59	Exposys Data Labs	0
60	Extramarks	12
61	Fanatisch Marketing Services (P) Ltd	1
62	Faurecia	32
63	Federal Bank	2
64	FIN Pe	6
65	FIS Global	1
66	Flexon Technologies	4
67	Freshworks	0
68	Ganga Kaveri Seeds Pvt Ltd	1
69	Garg Lifestyle Private Ltd	0
70	Gestamp	20
71	Girnar Software Pvt Ltd's	1

72	Goldman Sachs	0
73	GRK Research Lab	1
74	GT Technology	1
75	GTET	3
76	GTPL	2
77	Hawkins Cookers Ltd	0
78	HBG Knowledge	0
79	HCL Technologies	17
80	Heraizen Technology	2
81	Hexaware Technologies WILP	2
82	Himalaya	2
83	iB Hubs	0
84	ICICI Bank	11
85	ICRISAT	6
86	ICTI	0
87	IMFA	1
88	Indiamart	2
89	Infosys	1
90	InMovidu Technologies	20
91	Innostax Software Labs Pvt Ltd	1
92	Intellipaat	0
93	Intelliswift Software	3
94	inuture	1
95	Jaro Education	3
96	Justdial	16
97	Kalgudi.com	0
98	Kapil Agro Farm India Pvt Ltd	8
99	KF Bioplants Pvt Ltd.	0
100	KPIT	0
101	Krishi Jagaran	1
102	KYB Motor Suspension India	30
103	Laxmi Components	16
104	LeadSquared	0
105	Learning Routes Pvt. Ltd	0
106	Lenskart	12
107	Lido Learning	2
108	Linde	1
109	Mahindra Agri Solutions Ltd	22
110	Manipal Hospital	3
111	Marquee Semiconductor	0
112	Mastree	11
113	Maventic	0
114	Maxgen Technology Pvt Ltd	1
115	McKinley & Rice	0
116	Medha Servo Drives P Ltd	0
117	MediaMint	2

118	MEDOPHARM PVT. LTD	1
119	Meta Human Technologies	1
120	Micron	0
121	Microsoft	1
122	Microsoft Fix-a-thon	0
123	Mindfire Solutions	1
124	Mindtree Ltd	1
125	Motherson Automotive	45
126	Mphasis	1
127	NCC Limited	5
128	NCR	0
129	Netcore Solutions	0
130	Nettantra Technologies	0
131	NoBroker	11
132	NoBroker	11
133	Nova Agri	9
134	Nucifera Entertainment Pvt Ltd	10
135	OMICS International	26
136	Optum - United Health Group	1
137	Our Food	4
138	Pentagon Systems & Services	3
139	Pepcoding	1
140	Pie Infocomm	18
141	PIN CLICK	1
142	Planet Spark	13
143	Pulsus Health Tech LLP	3
144	Pyramid Consulting	3
145	Radix Software Services Pvt Ltd	0
146	Rakuten	3
147	Rallis India Limited (A TATA Enterprise)	4
148	Rane Engine Valve Ltd	35
149	Ravi Hybrid Seeds Pvt Ltd	0
150	RICO	22
151	RK Info Syatems	6
152	Ronch Polymers	30
153	Rubicon Skill Development Pvt Ltd.	0
154	Rumango Software	2
155	Runexe IT Solutions	0
156	Sadbhav Futuretech Pvt. Ltd	0
157	Sagarsoft Technologies	1
158	Sai Sustainable Agro	5
159	SAK Robotix	7
160	Satrix Information Security	7
161	SearchingYard Software Pvt. Ltd.	5
162	SECON Pvt Ltd	0
163	Shankar Foundation	1

164	Shriram Life Insurance	5
165	Silicon Techlab (STL)	3
166	Siyana Info Solutions	4
167	SKH Metals	82
168	Skolar	19
169	Software AG	2
170	Sonalika Tractors	5
171	SQUAREYARDS	33
172	Sumukha Engineering	21
173	Sundaram Finance	3
174	Swarup Eye Hospital	1
175	Swiflearn	6
176	T & AS Designtech	16
177	TCS	25
178	TCS Digital	1
179	Teach For India	0
180	Tech Mahindra	12
181	Tech Mahindra (Noida)	1
182	TEKsystems Global Services	3
183	telSpiel	0
184	Tiger Analytics	1
185	Titan Eye Plus	1
186	ToXSL Technologies	0
187	TRADE INDIA	1
188	Unschool	52
189	Upsquare Solutions	5
190	Vasudha- Mission Gram Swaraj Project	7
191	VAYA Group	3
192	Vedantu	5
193	Verve Farmstay	2
194	Victoria Tools	11
195	Victory Marvel Seeds India Pvt Ltd.	1
196	Vijaya Diagnostic-1st Phase	43
197	Vijaya Diagnostic-2nd Phase	29
198	Vinove Software & Services	2
199	Vision Expres	1
200	VNR Seeds Pvt Ltd	19
201	Watershed Organisation Trust	6
202	Windowmaker Software Pvt Ltd.	1
203	Wipro Technologies	11
204	Wise Finserv Pvt. Ltd	0
205	XL Dynamics India Pvt Ltd	0
206	Xpressbees	1
207	Zyodus Cadila	8
208	Zyla Health	1
<b>Total Students Placed</b>		<b>1318</b>

## 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 Five CroreThirty Two Lakhs Sixty Six Thousand Nine Hundred Seven. In 2021-22, Centurion University has received consultancy projects from Central Tools & Training Center, Hindstan Aeronotus Limited, Dassault, ORMAS, Odisha, Mind Tree Foundation, Gram Tarang InclusiveDevelopment ServicesPvt. Ltd., Indian Railway etc.

**Table 5.1: Details of Training & Consulting Activities Undertaken**

Client Organization	Title of project	Amount Received (Rs.)
CTTC	MTRTC Production	2,43,362
RSB	MTRTC Production	12,24,602
HAL	MTRTC Production	5,72,000
SMS INDIA	MTRTC Production	3,76,758
Dassault	Consultancy	1,95,29,908
RPL	Training	1,36,86,700
Rural Mason Training	Training	1,38,03,847
PMKVY	Training	1,36,27,502
IOCL	Training	8,62,920
National Mineral Development Corporation (NMDC)	Skill Development Training Programme	1,35,000
Agricultural Technology Management Agency (ATMA)	Farmar Training	1,40,000
Anmol Industries Ltd	NEEM	34,246
Blue Star Limited	NEEM	1,62,717
Dream Plast India Pvt Ltd	NEEM	1,15,80,054
Elringklinger Automotive Components India Pvt. Ltd.	NEEM	4,21,554
Faurecia Automotive Seating India Pvt. LTD	NEEM	54,60,912
Givaudan India Pvt Ltd	NEEM	1,61,36,785
K India	NEEM	18,51,308

K Three Appliances	NEEM	39,33,402
Lokesh Machines Ltd.	NEEM	1,31,60,152
Lucas Tvs Ltd.	NEEM	1,14,07,553
Metaflex Doors India Pvt Ltd	NEEM	4,16,663
M J Casting Ltd	NEEM	2,90,826
New Allenberry	NEEM	1,85,34,577
Ohsung Electronics Pvt. Ltd.	NEEM	76,12,893
Polybond India Pvt. Ltd.	NEEM	2,72,63,369
Radheya Machining Ltd.	NEEM	1,07,73,688
SIAC SKH India Cabs Manufacturing Pvt Ltd	NEEM	1,03,628
SKH Metals Limited (Plant 1) Maneswar Old	NEEM	3,42,154
SKH Metals Limited (Plant 2) Maneswar New	NEEM	2,34,629
SKH Sheet Metals Componets Pvt Ltd	NEEM	89,389
SKH Y-Tec India Pvt Ltd	NEEM	23,246
Supreme Treon Pvt. Ltd.	NEEM	79,29,892
Varroc Engineering Ltd (Gujrat)	NEEM	1,15,04,323
Varroc Engineering Ltd (Pune)	NEEM	4,03,78,638
OSDA, Odisha	Assessment	26,15,200
ORMAS, Odisha	Assessment	63,15,200
BOCW, Odisha		3,32,00,000
MPSSDEGB, Madhya Pradesh	Assessment	14,47,000
MPACET, Madhya Pradesh	Assessment	11,82,000
CED, Gujarat	Assessment	23,75,000
WBSEST&OBC	Assessment	11,20,000
UPSDM, Uttar Pradesh		62,02,400
Others	Assessment	24,65,000

Norwegian University of Science and Technology (NTNU)	Sustainable Entrepreneurship and Skill Integrated Education K. sted: 971005	18,31,826
Central Tool Room & Training Center	Making of Aerospace Components for ISRO	73,000
Hindustan Aeronautics Limited Sunabeda	Making of Engine Components for MIG 21	1,95,060
RSB Global Dharward	Machining of auto components	7,72,000
Indian Railway	Manufacturing of components	58,056
Indian Railway	Manufacturing of components	4,10,167
Artificial Limbs Manufacturing Corporation of India (ALIMCO)	Manufacturing of components	62,000
Gram Tarang Inclusive Development Services Pvt. Ltd.	Banking Correspondent Project for 7 Scheduled Commercial Banks in West Bengal, Odisha, Telangana, Tamilnadu, Bihar, Andhra Pradesh, Karnataka	13,00,00,000
Mindtree Foundation	ovt. of Odisha for COVID-19 Relief Measures in communities	90,93,799

## 6. Research Projects, Publications

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 17 patents.

During the year, 495 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	A Study On Trust Management System For Ubiquitous And Pervasive Iot Application	Anup Patnaik, Banitamani Mallik, M. Vamsi Krishna	Mathematics	Turkish Journal Of Computer And Mathematics Education	2021	1309-4653



2	Effect Of Size On Properties Of Industrial And Agro Waste Reinforced Aluminum Matrix Composite	S. S. Panda, A. Senapati, P. Srinivasa Rao	Mechanical Engineering	The Journal Of The Minerals, Metals & Materials Society	2021	1047-4838
3	SnP Markers And Its Impact On Crop Improvement	Debasmita Das And Rukmini Mishra	Botany	Asian Journal Of Biological And Life Sciences	2021	2278-747x
4	Next Generation Sequencing Technologies Towards Exploration Of Medicinal Plants	Sunanya Das And Rukmini Mishra	Botany	Journal Of Experimental Biology And Agricultural Sciences	2021	2320-8694
5	Assessment Of Crop Water Productivity In An Intensively Cultivated Watershed Of Peninsular India	K. Avil Kumar, M. Uma Devi, M.D. Reddy, A. Mani, D.V. Mahalaxmi, O. Bhavani	Agronomy And Agroforestry	Indian Journal Of Agricultural Research	2021	0367-8245
6	Frequency Control In Hybrid Distributed Power Systems Via Type-2 Fuzzy Pid Controller	Rajendra Kumar Khadanga, Amit Kumar & Sidhartha Panda	Electrical And Electronics Engineering	Iet Renewable Power Generation	2021	1752-1416
7	A Novel Sine Augmented Scaled Sine Cosine Algorithm For Frequency Control Issues Of A Hybrid Distributed	Rajendra Kumar Khadanga, Amit Kumar & Sidhartha Panda	Electrical And Electronics Engineering	Neural Computing And Applications	2021	0941-0643

	Two-Area Power System					
8	Consumer's Perception In Adoption Of Clean Energy Products In Areas Of South Odisha	Dr. Shiv Sankar Das ,Prof. Swagat Ranjan Behera ,Prof. Debashree Debadatta Behera Dr. Sanjib Patnaik	Mechanical Engineering	Current Journal Of Applied Science And Technology	2021	2457-1024
9	Functional Role Of Mirnas: Key Players In Soybean Improvement	Kapil Gupta, Sujit Kumar Mishra, Shubhra Gupta, Saurabh Pandey, Jogeswar Panigrahi, Shabir Hussain Wani6	Zoology	Phyton - International Journal Of Experimental Botany	2021	0031-9457
10	The Productivity And Nutrient Use Efficiency Of Rice–Rice–Black Gram Cropping Sequence Are Influenced By Location Specific Nutrient Management	Shankar, T.; Banerjee, M.; Malik, G.C.; Dutta, S.; Maiti, D.; Maitra, S.; Alharby, H.; Bamagoos, A.; Hossain, A.; Ismail, I.A.; Et Al.	Agronomy And Agroforestry	Sustainability	2021	2071-1050
11	Intercropping –A Low Input Agricultural Strategy For Food And Environmental Security	Maitra, S.; Hossain, A.; Brestic, M.; Skalicky, M.; Ondrisik, P.; Gitari, H.; Brahmachari, K.; Shankar, T.; Bhadra, P.; Palai, J.B.; Jana, J., Bhattacharya, U., Duvvada, S. K., Lalichetti, S., Sairam, M.	Agronomy And Agroforestry	Agronomy	2021	2073-4395
12	Celecoxib Crystallized From Hydrophilic	Rudra Narayan Sahoo, Bhabani Sankar Satapathy	Pharmacy	Assay And Drug Development Technologies	2021	1540-658x

	Polymeric Solution Showed Modified Crystalline Behaviour With An Improved Dissolution Profile	And Subrata Mallick				
13	Novel Periodontal Pocket Drug Delivery Systems For The Treatment Of Periodontitis	Himansu Bhusan Samal*, Ch. Niranjan Patra, Lavanya Boyeena And Itishree Jogamaya Das	Pharmacy	Indian Drugs	2021	0019-462x
14	Autochthonous Lactobacillus Spp. Isolated From Murrah Buffalo Calves Show Potential Application As Probiotic	Anukarna Singh, Sachin Kumar, Vv Vinay, Bhawna Tyagi, Prasanta Kumar Choudhury, Hm Rashmi, Ps Banakar, Nitin Tyagi, Amrish Kumar Tyagi	Dairy Technology	Current Research In Biotechnology	2021	2590-2628
15	Verification Of Corrosion Inhibition Of Mild Steel By Some 4-Aminoantipyrine-Based Schiff Bases – Impact Of Adsorbate Substituent And Cross-Conjugation	Ankita Upadhyay, Aditya Kumar Purohit, Gurudatta Mahakur, Sukalyan Dash, Pravin Kumar Kar	Chemistry	Journal Of Molecular Liquids	2021	0167-7322
16	Tuning Surface Wettability Of Molybdenum Oxide Nanorod Mesh By Low Energy Ion	Satyanarayan Dhal, Pritam Das, Arpita Patro, Madhuchhanda Swain, Sheela Rani Hota, Dojalisa Sahu, Shyamal Chatterjee	Physics	Radiation Physics And Chemistry	2021	0969-806x

	Beam Irradiation					
17	Core Level Spectra Prediction Of Zinc Oxide Using First Principles Method	Arpita Patro, Satyanarayan Dhal, Subhasmita Mishra	Physics	Indian Journal Of Natural Sciences	2021	0976-0997
18	Prediction Of Thermodynamic Properties Of Cadmium Selenide Using Density Functional Theory	Satyanarayan Dhal	Physics	Indian Journal Of Natural Sciences	2021	0976-0997
19	Electron Transport Simulation For Hydrogen Electrodes In A Rubidium Island	Satyanarayan Dhal	Physics	Indian Journal Of Natural Sciences	2021	0976-0997
20	Retaining Graphene Structure In The Synthesis Of Its Composite With Bifeo <sub>3</sub>	Tapan Dash, Ananta Kumar Sahoo, Raj Kishore Mishra, Binod Bihari Palei	Physics	Materials Today: Proceedings	2021	2214-7853
21	Vibrational And Electronic Properties Of (5, 0) Zigzag And (5, 5) Armchair Carbon And Sic Nanotubes Using Density Functional Theory	Rk Sahu, V Mukherjee, T Dash, Sk Padhan, Bb Nayak	Physics	Physica B: Condensed Matter	2021	0921-4526

22	Effect Of Low Sintering Temperature On The Synthesis Of Bifeo3	Tapan Dash, Pratikhyasahoo, Nibeditamohanty, Raj Kishore Mishra, Binod Bihari Palei	Physics	Materials Today: Proceedings	2021	2214-7853
23	Graphene-Alumina Composite: The Advanced Coating Material For Developing Harder Surface Of Steel Strip Substrate	Tapan Dash, Gaurab Kumar Sahoo, Binod Bihari Palei, Tapan Kumar Rout	Physics	Lecture Notes In Mechanical Engineering	2021	2195-4356
24	Fused Tungsten Carbide Synthesisby Thermal Arc Melt Cast Method	Ranjan Kumar Moharana1, Tapan Dash1	Physics	Lecture Notes In Mechanical Engineering	2021	2195-4356
25	Synthesis And Analysis Of Structural Properties Of (Ba0.592sr0.0406)Tio3 compound	Tapan Dash, Sushreesubhadarshi neemohapatra, Raj Kishore Mishra, Binod Bihari Palei	Physics	Materials Today: Proceedings	2021	2214-7853
26	Structural And Electrical Properties Of Magnesium-Doped CoFe <sub>2</sub> O <sub>4</sub>	D Mohanty, Au Naik, Pk Nayak, Banarji Behera, Sk Satpathy	Physics	Powder Metallurgy And Metal Ceramics	2021	1068-1302
27	Synthesis And Transport Properties Of Cobalt Ferrite: A Systematic Overview	Ananga U. Naik, Santosh K. Satpathy*, Banarji Behera	Physics	Micro And Nanosystems	2021	1876-4029

28	A Comprehensive Review On Epigenetic Mechanisms And Application Of Epigenetic Modifications For Crop Improvement	Kajal Samantara, Aalok Shiv, Lorena Lopes De Sousa, Karansher Singh Sandhu, Parichita Priyadarshini, Sourav Ranjan Mohapatra	Genetics And Plant Breeding	Environmental And Experimental Botany	2021	0098-8472
29	Design Of Lagrangian Based Fopid Controller For Desired Closed Loop System	A. K. Sahoo, S. K. Mishra	Electrical And Electronics Engineering	Journal Of Circuits, Systems And Computers	2021	0218-1266
30	Functional Relationship Of Vegetable Colors And Bioactive Compounds: Implications In Human Health	Shweta Sharma, Viveka Katoch, Satish Kumar And Subhrajyoti Chatterjee	Horticulture	The Journal Of Nutritional Biochemistry	2021	0955-2863
31	Synthesis Of Nano Hydrogel Based Cellulose-G-Hema /Nano Cao Using Snail Shell For Removal Of Cr (Vi) From Waste Water	S.Baral,A.K.Pradhan, C.Routray	Chemistry	Indian Journal Of Natural Sciences	2021	0976-0997
32	Low Energy N-Ion Irradiation Effects On Cadmium Telluride	S. Mishra, S. Dhal	Physics	Indian Journal Of Natural Sciences	2021	0976-0997
33	Targeting To Brain Tumor: Nanocarrier Based Drug Delivery	Gurudutta Pattnaik, Bhabani Sankar Satapathy, Swapna S, Dibyalochan Mohanty	Pharmacy	Journal Of Pharmacy And Bioallied Sciences	2021	0976-4879

	Platforms, Opportunities, And Challenges					
34	Aqbd Driven Development Of A Rp-Hplc Method For The Quantitation Of Abiraterone Acetate For Its Pharmaceutical Formulations In Presence Of Degradants	Bikash Ranjan Jena, Siva Prasad Panda, Umasankar Kulandaivelu, Rajashekhar Reddy Alavala, G.S.N.Koteswara Rao, Suryakanta Swain, Gurudutta Pattnaik, Debashish Ghose	Pharmacy	Turkish Journal Of Pharmaceutical Sciences	2021	1304-530x
35	Identifying Most Promising Agronomic Adaptation Strategies To Close Rainfed Rice Yield Gap In Future - A Model-Based Assessment	Subhankar Debnath, Ashok Mishra, D.R. Mailapalli, N.S. Raghuwanshi	Agricultural Engineering	Journal Of Water And Climate Change	2021	2040-2244
36	Preparation Of Graphene Reinforced Aluminium Composites: Investigation Of Microstructural, Electrical Conductivity And Microhardness Behaviour	Binod Bihari Palei, Tapan Dash* And Susanta Kumar Biswal	Physics	International Journal Of Materials And Product Technology	2021	0268-1900
37	The 8-Aminoquinoline Assisted Copper	Bijay Kumar Singh, Arun Kumar Pradhan	Chemistry	Indian Journal Of Natural Sciences	2021	0976-0997

	Catalyzed C(Sp <sup>2</sup> )-H Functionalization					
38	Cooper Mediated C(Sp <sup>2</sup> )-H Functionalization : 8-Aminoquinoline As Auxiliary Bidentate Directing Group	Bijay Kumar Singh, Arun Kumar Pradhan	Chemistry	Indian Journal Of Natural Sciences	2021	0976-0997
39	Impact And Contribution Of Forest In Mitigating Global Climate Change	Gyanaranjan Sahoo, Afaq Wani, Sandeep Rout, Amita Sharma, Satyajeet Kar And Ajay Kumar Prusty	Agricultural Extension And Communication	Design Engineering (Toronto)	2021	0011-9342
40	Impacts Of Waste Biomass Of Salvinia Cucullata L. On Growth, Physiological And Biochemical Parameters Of Vigna Unguiculata L	Atia Arzo, Suvechha Hota, Bhagyeeswari Behera	Chemistry	International Journal Of Botany Studies	2021	2455-541x
41	A Diabetic Prediction System Based On Mean Shift Clustering	Satyanarayana Murthy Teki, K. V Sriharsha, Mohan Krishna Varma N3	Computer Science And Engineering	Ingénierie Des Systèmes D'information	2021	1633-1311
42	A Review On Rotary Regenerators	Dr. Prakash Ghose	Mechanical Engineering	Indian Journal Of Natural Sciences	2021	0976-0997
43	An Investigation On Non-Darcy Nanofluid Flow Due To	S. Jena, P. K. Pattnaik, Kishan Singh Shekhawat, Ram Prakash Sharma	Mathematics	Ganita	2021	0046-5402



	The Interaction Of Inclined Magnetic Field And Nonlinear Radiation					
44	Reversible Selective Embedding For Dicom Image Security And Integrity Using Visual Cryptography	Bijay Kumar Paikaray, Debabala Swain	Computer Science And Engineering	International Journal Of Electronic Security And Digital Forensics	2021	1751-911x
45	Evaluation Of Quality Parameters Of Seven Processing Type Potato (Solanum Tuberosum L.) Cultivars In The Eastern Sub-Himalayan Plains.	Das, S.; Mitra, B.; Saha, A.; Mandal, S.; Paul, P.K.; El-Sharnouby, M.; Hassan, M.M.; Maitra, S.; Hossain, A.	Agronomy And Agroforestry	Foods	2021	2304-8158
46	Examining Associations Between Sensex And Selected International Stock Markets	Dr.Pramod Kumar Patjoshi, Dr.Girijanandini, Dr.Prabhuramtripathy	Management	Annals Of The Romanian Society For Cell Biology	2021	1583-6258
47	Optimal Replenishment Policy For A Two-Warehouse Inventory Model With Fuzzy Demand And Deterioration Under Trade Credit Offer	Balaj Padhy P.N. Samanta S. K. Chaudhury And U.K.Misra	Mathematics	Indian Journal Of Natural Sciences	2021	0976-0997

48	Efficacy Of Box-Pcr Fingerprinting For Taxonomic Discrimination Of Bifidobacterial Species Isolated From Diverse Sources	Rajashree Jena, Prasanta Kumar Choudhury, Anil Kumar Puniya, Sudhir Kumar Tomar	Dairy Technology	3 Biotech	2021	2190-5738
49	Impact Of Technology On Industrial Relations: Study On It Industry	Dr.Girija Nandini, Dr.Bhanupriya Khatri, Dr. Pramod Kunar Patjoshi	Management	Jijnasa : A Journal Of The History Of Ideas And Culture	2021	0337-743x
50	Growth And Performance Of Rural Banking In India:An Empirical Study	Dr.Girija Nandini, Anindita Bosu, Dr. Pramod Kunar Patjoshi	Management	Annals Of The Romanian Society For Cell Biology	2021	1583-6258
51	Growing From Inside Out: An Exploratory Investigation Into The Construct-Spirituality	T Bantha, Tk Panda, Sp Sahni	Management	Prabandhan: Indian Journal Of Management	2021	0975-2854
52	The Relation Of Servant Leadership With Followers' Organizational Citizenship Behaviour (Ocb): Mediating Role Of Generalized Self-Efficacy (Gse) And Organization Based Self-	T Bantha, Sp Sahni	Management	Industrial And Commercial Training	2021	0019-7858

	Esteem (Obse)					
53	Use Of Clean Energy In On-Farm Livelihood Security	Shiv Sankar Das, Debashree Debadatta Behera And Siba Prasad Mishra	Mechanical Engineering	Asian Journal Of Agricultural Extension, Economics & Sociology	2021	2320-7027
54	Collimators For An Imaging System,	P. K. Rath, N.Deshmukh, Pankaj Shah, M.Mishra	Physics	Indian Journal Of Natural Sciences	2021	0976-0997
55	Parameters For An Imaging System	P. K. Rath, N.Deshmukh, Pankaj Shah, M.Mishra	Physics	Indian Journal Of Natural Sciences	2021	0976-0997
56	Scintillators For An Imaging System	P. K. Rath, N.Deshmukh, Pankaj Shah, M.Mishra	Physics	Indian Journal Of Natural Sciences	2021	0976-0997
57	The Promising Role Of Oleanolic Acid In The Management Of Diabetes Mellitus: A Review	Sasmita Dash, Gurudutta Pattnaik , Biswakanth Kar, Nityananda Sahoo	Pharmacy	Journal Of Applied Pharmaceutical Science	2021	2231-3354
58	Habitat Heterogeneity Influences Avian Feeding Guild Composition In Urban Landscapes: Evidence From Bhubaneswar, India	Bibhu Prasad Panda,B. Anjan Kumar Prusty , Biswajit Panda, Abanti Pradhan And Siba Prasad Parida	Zoology	Ecological Processes	2021	2192-1709

59	Habitat Heterogeneity And Seasonal Variations Influencing Avian Community Structure In Wetlands	Bibhu Prasad Panda, Ashis Kumar Das, Sudheer Kumar Jena, Biswajita Mahapatra, Aditya Kishore Dash, , Abanti Pradhan, , Siba Prasad Parida	Zoology	Journal Of Asia-Pacific Biodiversity	2021	2287-884x
60	Fault Detection And Troubleshooting In A Pv Grid-Tied Inverter	Bibhu Prasad Mishra, Nimay Chandra Giri, Smruti Ranjan Nayak, Siba Prasad Mishra	Electronics And Communication Engineering	Indian Journal Of Science And Technology	2021	0974-6846
61	Sustainable Emergency Light For Scarcely Electrified Area Of India	Shrutirekha Tripathy, Mitali Monalisha Sahoo, Nimay Chandra Giri, Siba Prasad Mishra, Smruti Ranjan Nayak	Electronics And Communication Engineering	Current Journal Of Applied Science And Technology	2021	2457-1024
62	Growth And Yield Of Basmati Rice Under Different Crop Establishment Methods And Sowing Environment	Sultan Singh, A. K. Gupta, Mahender Singh, N. P. Thakur And Lalichetti Sagar	Agronomy And Agroforestry	Mausam	2021	0252-9416
63	Potential Role Of Weed Management On Growth And Productivity Of Pearl Millet-A Review	Sindhu Lalichetti, Sagar Lalichetti, Sultan Singh, Sagar Maitra And Oggu Keerthipriya	Agronomy And Agroforestry	International Journal Of Agriculture Environment And Biotechnology	2021	0974-1712
64	Study Of Energy Loss For Some Metal Foils (A Possible Source For Secondary Electrons)	G. K. Sahu, P. K. Rath, N. N. Deshmukh, Pankaj Shah, M. Mishra	Physics	Indian Journal Of Natural Sciences	2021	0976-0997

65	Effect Of Entrance Channel To The Cross Section	G. K. Sahu, P. K. Rath, N. N. Deshmukh, Pankaj Shah, M. Mishra	Physics	Indian Journal Of Natural Sciences	2021	0976-0997
66	A Review Of Scintillators	G. K. Sahu, P. K. Rath, N. N. Deshmukh, Pankaj Shah, M. Mishra	Physics	Indian Journal Of Natural Sciences	2021	0976-0997
67	Selection Of Low Temperature Thermal Power Cycles	Mukundjee Pandey, Biranchi Narayana Padhi , And Ipsita Mishra	Mechanical Engineering	Thermal Science	2021	0354-9836
68	Carbon Storage Of Single Tree And Mixed Tree Dominant Species Stands In A Reserve Forest—Case Study Of The Eastern Sub-Himalayan Region Of India	Prakash Rai, Vineeta, Gopal Shukla, Abha Manohar K , Jahangeer A Bhatt, Amit Kumar, Munesh Kumar, Marina Cabral-Pinto And Sumit Chakravarty 1	Agronomy And Agroforestry	Land	2021	2073-445x
69	Trends In Diabetes Care With Special Emphasis On Medicinal Plants: Advancement And Treatment	Bichitrananda Tripathy, Nityananda Sahoo And Sudhir Kumar Sahoo	Pharmacy	Biocatalysis And Agricultural Biotechnology	2021	1878-8181
70	Ethnoveterinary Practices Of Tribes In Odisha, India: A Review	Monalisa Panda, Gyanranjan Mahalik*	Botany	International Journal Of Botany Studies	2021	2455-541x
71	Fabrication And Characterization Of Physical And Mechanical Properties Of	Ali, Asar; Ali, Farman; Rashedi, Ahmad; Armghan, Ammar; Fajita, M. R.N.; Alenezi, Fayadh; Karthik Babu Nb.	Mechanical Engineering	Nanomaterials	2021	2079-4991

	Carbon Nanotubes— Graphene-Based Sandwich Composite Pressure Sensor					
72	Torpor In Insects	S. Borkataki, B. Bhattacharyya, S. Sen, R. R. Taye, M. D. Reddy And S. P. Nanda	Chemistry	Current Science	2021	0011-3891
73	Physicochemical And Functional Properties Of Frozen Stored Minced Meat Of Nile Tilapia (Oreochromis Niloticus)	Monalisa Mishra <sup>1*</sup> , Subal Kumar Ghosh <sup>2</sup> , Mayank Soni <sup>3</sup> , R. K. Sadawarte <sup>4</sup> And V. R. Sadawarte <sup>5</sup>	Fisheries	Current Journal Of Applied Science And Technology	2021	2457-1024
74	A Study On Trawl Catch Quality Of Ice Storage Finfish And Shellfish Species From Versova Fish Landing Center, Mumbai, India	Subal Kumar Ghosh <sup>*1</sup> , Sambid Swain <sup>1</sup> , Hauzoukim <sup>1</sup> , Sagarika Swain <sup>1</sup> Anvesha Roy <sup>1</sup> , Rajesh Kumar Pradhan <sup>2</sup> , Suraj Kumar Pradhan <sup>2</sup> , Rupali Das <sup>2</sup> , Sambit Kisore Das <sup>2</sup>	Fisheries	Journal Of Experimental Zoology	2021	0972-0030
75	Heterosis In Tomato (Solanum Lycopersicum ) Hybrids For Growth, Yield And Quality Traits	Archana Mishra, A Nandi, V Thriveni, S Das, Ic Mohanty And Sk Pattanayak	Horticulture	The Pharma Innovation Journal	2021	2349-8242
76	Plastic Waste As Threat To Environmental Sustainability In Smart Cities: A	Bidyadhar Raout, Dr. Snigdha Tripathy, Dr. Sisir Ranjan Dash, Dr. Bishwaranjan Purohit	Management	Turkish Online Journal Of Qualitative Inquiry	2021	1309-6591

	Systematic Review Of Extant Literature					
77	Does Bonus Announcement Effect On Stock Prices: Evidence From Listed Companies In India	Debiprsad Satapathy And Subhendu Mishra	Management	Turkish Online Journal Of Qualitative Inquiry	2021	1309- 6591
78	Unravelling Tidal Effect On Zooplankton Community Structure In A Tropical Estuary	Srichandan, S., Baliarsingh, S. K., Lotliker, A. A., Sahu, B.K., Roy, R & Nair, T.M.B.	Civil Engineering	Environmental Monitoring And Assessment	2021	0167- 6369
79	Evaluation Of Hydro- Biological Parameters In Response To Semi-Diurnal Tides In A Tropical Estuary	Baliarsingh, S.K., Lotliker, A.A., Srichandan, S., Roy, R., Sahu, B.K., Samanta, A., Nair, T.M.B., Acharyya, T., Parida, C., Singh, S., Jena, A.K.	Civil Engineering	Ecohydrology & Hydrobiology	2021	1642- 3593
80	Transgenic Vegetables: A Review	Archi Gupta, Anis Mirza, Charupriya Chauhan And Sanghamitra Rout	Genetics And Plant Breeding	International Journal Of Botany Studies	2021	2455- 541x
81	Zinc Biofortificatio n In Food Crops Could Alleviate The Zinc Malnutrition In Human Health	S Praharaj, M Skalicky, S Maitra, P Bhadra, T Shankar, M Brestic, V Hejnak, P Vachova, A Hossain	Agronomy And Agroforestry	Molecules	2021	1420- 3049

82	Relative Efficiency Of Different Weed Management Practices On Growth, Yield And Weed Dynamics On Sunflower	Prabhuvineeth Inuganti, Subhashisa Praharaj, Sagar Lalichetti, Tanmoy Shankar, Gc Mishra, Sagar Maitra, Rahul Adhikary, Lipsa Patnaik, Sairam Masina, Sultan Singh	Agronomy And Agroforestry	International Journal Of Agriculture, Environment And Biotechnology	2021	0974-1712
83	Prediction By Soft Computing, Planning, And Strategy Building Of Aquatic Catch: Chilika Lagoon, Odisha, India,	Siba Prasad Mishra	Civil Engineering	Design Engineering (Toronto)	2021	0011-9342
84	Effect Of Incorporation Of Magnetization In Antiferromagnetic Cr <sub>2</sub> O <sub>3</sub> By Mechanically Alloying With A-Fe Nanoparticles	S Pati ,Dojalisa Sahu ,Nr Panda,D.Das	Chemistry	Materials Letters	2021	0167-577x
85	Influence Of Micronutrient Management On Growth And Yield Attributes In Pigeonpea [Cajanus Cajan (L.) Cv. Prg176] In Kalahandi District Of Odisha	H.N. Malik, U. Naik, Upasana Sahoo, A. Panda, A. Phonglosa, R. Bhattacharya, F. H. Rahman	Agronomy And Agroforestry	Journal Of Experimental Agriculture International	2021	2457-0591



86	Identification And Classification Of Mango Leaf Disease Using Wavelet Transform Based Segmentation And Wavelet Neural Network Model	Satyasis Mishra <sup>1</sup> , Ellappan V. <sup>2</sup> , Sunita Satapathy <sup>3*</sup> , Gemechu Dengia <sup>4</sup> , Bayisataye Mulatu <sup>5</sup> , Ferew Tadele <sup>6</sup>	Zoology	Annals Of The Romanian Society For Cell Biology	2021	1583-6258
87	Effect Of Particle Size On Properties Of Industrial And Agro Waste-Reinforced Aluminum-Matrix Composite	Sasank Sekhar Panda, P.Srinivasa Rao, Ajit Senapati	Mechanical Engineering	Metallurgical And Materials Transactions B: Process Metallurgy And Materials Processing Science	2021	1073-5615
88	Thinking Ahead: Agricultural Silver Lining Post Covid-19 Pandemic Crisis	Prajjal Dey, Debanjana Saha, Udit Nandan Mishra, Gyaneshwar Jha, Ankesh Kumar Sharma And Diptanu Datta	Biotechnology	Ecology, Environment And Conservation	2021	0971-765x
89	Crucial Cell Signaling Compounds Cross-Talk And Integrative Multi-Omics Techniques For Salinity Stress Tolerance In Plants	Rajesh Kumar Singhal, Debanjana Saha, Milan Skalicky, Udit Nandan Mishra, Jyoti Chauhan, Laxmi Preeya Behera, Devidutta Lenka, Subhash Chand, Vivek Kumar, Prajjal Dey,	Biotechnology	Frontiers In Plant Science	2021	1664-462x
90	Highly Selective And Sensitive Optical Discrimination Of Pyrophosphat	Aditya Kumar Purohit, Hemanta K. Kisan, Sumanta Sahu And Pravin Kumar Kar	Chemistry	Journal Of Molecular Structure	2021	0022-2860

	e Ion By A Zn(LI)-Terpyridine Complex In Aqueous Medium At Physiological Ph					
91	Comparative Evaluation Of Drying Kinetics Of Carrot Slices In Hot Air And Microwave Drying	Gitanjali Behera, Mitali Madhumita, J. Aishwarya, V. Gayathri.	Agricultural Engineering	The Journal Of Phytopharmacology	2021	2320-480x
92	Infestation Levels And Seasonal Incidence Of Major Pests Of Cotton And Their Natural Enemies In West Bengal	Pronobesh Halder And Nihal R	Entomology	The Pharma Innovation Journal	2021	2349-8242
93	Optimum Parameters For Production Of Ethanol From Synthetic Molasses By Saccharomyces Cerevisiae	P. Krishna Reddy , M. Vijay , M. Kusuma , K.V. Ramesh	Chemical Engineering	Materials Today: Proceedings	2021	2214-7853
94	Hydroponics In Vegetable Crops: A Review	Aurosikha Swain, Subhrajyoti Chatterjee, M Viswanath, Anindita Roy And Amit Biswas	Horticulture	The Pharma Innovation Journal	2021	2349-8242
95	A Simple Liquid Chromatographic Method For Estimation Of Glycopyrrrolat	Sagar Suman Panda, Bvv Ravi Kumar, Raja Kumar Viriyala And Suman Kumar Mekap	Pharmacy	Analytical And Bioanalytical Chemistry Research	2021	2383-093x

	e In Pharmaceutic als Using Experimental Design					
96	Climate Change Crash On Fruit Crops And Management Approaches	Anindita Roy, M Viswanath, Gowthami, Subhrajyoti Chatterjee And Amit Biswas	Horticulture	The Pharma Innovation Journal	2021	2349- 8242
97	Training- A Tool For Canopy Management In Fruit Crops	Anindita Roy, M Viswanath, Gowthami, Subhrajyoti Chatterjee And S.P. Nanda	Horticulture	The Pharma Innovation Journal	2021	2349- 8242
98	Effect Of Different Plant Growth Regulators On Mass Propagation Of Banana Cv. Kovvur Bontha (Abb)	M Viswanath, Chetan M.N, Anindita Roy, Subhrajyoti Chatterjee S.P Nanda	Horticulture	The Pharma Innovation Journal	2021	2349- 8242
99	Effect Of Chemical To Herb Control On Performance Of Sesame (Sesamum Indicum) Under Irrigated Conditions	Lipsa Patnaik , Rahul Adhikary And M. Devender Reddy	Soil Science	International Journal Of Environment And Climate Change	2021	2581- 8627
100	Moringa Oleifera Lam.: A Potential Agroforestry Tree Species	Sandeep Rout, Gyanaranjan Sahoo,Sonia Panigrahi, Udit Nandan Mishra,Ajay Kumar Prusti,Kalyani Pradhan, Lipsa Dash, Barsha Tripathy	Agronomy And Agroforestry	International Journal Of Botany Studies	2021	2455- 541x

101	Electrical Conduction Mechanism In Nanocrystalline ZnO Induced By Donor/Acceptor Doping	Dojalisa Sahu,A Palai,Nr Panda	Chemistry	Journal Of Materials Science: Materials In Electronics	2021	0957-4522
102	Emission Analysis Of Diesel Engine By Cooking Oil Waste As Part Substitute Of Fuel	Manas Ranjan Padhi, Siba Prasad Mishra	Mechanical Engineering	Current Journal Of Applied Science And Technology	2021	2457-1024
103	Growth And Productivity Of Maize (Zea Mays L.) As Influenced By Nitrogen Management Options	Sameer Mohapatro, Tanmoy Shankar*, Sagar Maitra, Arunabha Pal, S. P. Nanda, Masina Sai Ram, Shravan Kumar Panda	Agronomy And Agroforestry	International Journal Of Agriculture, Environment And Biotechnology	2021	0974-1712
104	Impact Of Tsunami Relief Measures On The Socio-Economic Condition Of Fishers In Tamil Nadu And Kerala	Dr. Nisha Elizabeth Joshua <sup>1</sup> , Dr. Arpita Sharma <sup>2</sup> , Dr. Amrutha Gopan <sup>3</sup>	Fisheries	Multilogic In Science	2021	2277-7601
105	A Review On Entrepreneurial Crisis Management During Coronavirus (Covid-19) Pandemic	Kalee Prasanna Pattanayak, Chitrasena Padhy	Management	Indian Journal Of Natural Sciences	2021	0976-0997
106	Promoting Growth & Resilience Of Businesses During And After The Coronavirus (Covid -19)	Kalee Prasanna Pattanayak, Chitrasena Padhy	Management	Indian Journal Of Natural Sciences	2021	0976-0997

	Pandemic - A Review					
107	Design And Analysis Of Hybrid Microgrid For Remote Area In Odisha	M. Meher, Debasis Sahu	Electrical And Electronics Engineering	Revista Geintec-Gestao Inovacao E Tecnologias (Management, Innovation And Technologies).	2021	2237-0722
108	Enhancement Investigations On Dielectric And Electrical Properties Of Niobium Pentoxide (Nb <sub>2</sub> O <sub>5</sub> ) Reinforced Poly (Vinylidene Fluoride) (Pvdf)- Graphene Oxide (Go) Nanocomposite Films	Srikanta Moharana And R.N Mahaling	Chemistry	Journal Of Asian Ceramic Societies	2021	2187-0764
109	Productivity And Profitability Of Kharif Rice Are Influenced By Crop Establishment Methods And Nitrogen Management In The Lateritic Belt Of The Subtropical Region	Samata Mohanta; Mahua Banerjee; Ganesh Chandra Malik; Tanmoy Shankar; Sagar Maitra; Ismail Ahmed Ismail; Eldessoky S. Dessoky; Attia O. Attia; Akbar Hossain	Agronomy And Agroforestry	Agronomy	2021	2073-4395

110	Design And Analysis Of Electric Vehicle With Battery System	D. R. Sahoo, A. K. Sahoo	Electrical And Electronics Engineering	Revista Geintec-Gestao Inovacao E Tecnologias (Management, Innovation And Technologies).	2021	2237-0722
111	Wild Edible And Minor Fruits Of Odisha	Anant Tamang, Satish Kumar Subba, Sangeet Chhetri	Horticulture	The Pharma Innovation Journal	2021	2349-8242
112	Kinetic Studies Of Esterification Of Butanoic Acid With Cyclohexanol By Saccharomyces Cerevisiae	G.V.S. Sarma A, G.V. Santosh Kumar , M. Vijay , K.V. Ramesh	Chemical Engineering	Materials Today: Proceedings	2021	2214-7853
113	Vermi-Biofiltration For Removal Of Chemical And Biological Pollutants From Municipal Wastewater For Agriculture - A Review	Amit Biswas	Agricultural Engineering	Pollution Research	2021	0257-8050
114	Canopy Temperature Of Potato Crop With Different Planting Dates And Irrigation Frequencies	Amit Biswas, Anindita Roy, M Viswanath, Subhrajyoti Chatterjee And Suprajit Roy	Agricultural Engineering	The Pharma Innovation Journal	2021	2349-8242
115	Consumptive Water Footprints And Water Use Efficiency Of Two Potato	Amit Biswas, Subhrajyoti Chatterjee, M Viswanath, Anindita Roy And Suprajit Roy	Agricultural Engineering	The Pharma Innovation Journal	2021	2349-8242

	Cultivars Under Different Planting Dates With Different Irrigation Frequencies					
116	Statistical Analysis Of Rainfall And Temperature Of Paralakhemundi, Odisha, India	Gourabananda Moharana, Ritesh Kumar Biswal, Satyashree Pahi, Rashmi Bala Das, Mukesh Kumar Khemundu, Suman Sekhar Muduly And Amit Biswas	Agricultural Engineering	Indian Journal Of Natural Sciences	2021	0976-0997
117	Layer Wise Soil Moisture Depletion Rate During Potato Growing Period Under Different Irrigation Frequencies With Different Planting Dates	Amit Biswas, Suprajit Roy, Swarnali Duary And Tufleuddin Biswas	Agricultural Engineering	Indian Journal Of Natural Sciences	2021	0976-0997
118	Modelling And Prediction Of Rainfall By Ann Technique In Krishnanagar, Nadia, West Bengal, India	Amit Biswas, Arup Kumar Das	Agricultural Engineering	Indian Journal Of Natural Sciences	2021	0976-0997
119	Estimation Of Irrigation Water Requirement Of Straw Berry Crop Under Polyhouse And Shadenet	Santosh D.T	Agricultural Engineering	International Journal Of Agricultural Sciences	2021	0973-130x

	House Conditions					
120	Response Of Horticultural Crops Under Variable Microclimatic Conditions Of Different Protected Cultivation Structures	Santosh D.T	Agricultural Engineering	International Journal Of Agricultural Sciences	2021	0973-130x
121	Pitcher Irrigation And Surface Cover Management On Bitter Gourd (Momordica Charantia) Production In Alfisols	Arunabha Pal, Angira Prasad Mahata, Abantika Mondal, & Susanta Kumar De	Soil Science	International Journal Of Botany Studies	2021	2455-541x
122	Use Of Geotextiles In Agriculture: A Review Study	Arunabha Pal & Dukka Pranav Reddy	Soil Science	International Journal Of Botany Studies	2021	2455-541x
123	Application Of Various Mulching Treatments With Pitcher Irrigation For Yield Of Tomato (Lycopersicon Esculentum) In Red And Laterite Soil	Angira Prasad Mahata, Abantika Mondal, Arunabha Pal, & Susanta Kumar De	Soil Science	Annals Of The Romanian Society For Cell Biology	2021	1583-6258
124	Field Evaluation Of Bio-Effectiveness Of Acephate 95% Sp Against Insect	Nihal R, Snigdha Samanta And Arunava Samanta	Entomology	The Pharma Innovation Journal	2021	2349-8242



	Pests Of Rice Crop					
125	Postharvest Pathogenic Behaviour Of Different Litchi Varieties	Ritesh Kumar, Priya Bhargava, Monika Karn, Anshu Kumar And Shikha Pathak	Plant Pathology	The Pharma Innovation Journal	2021	2349-8242
126	The Effectiveness Of Phytobiotic Additives In Poultry Nutrition	Lopamudra Samantaray And Dr. Yashaswi Nayak	Zoology	Strad	2021	0039-2049
127	Physiological Disorders Of Tomato- An Overview	Archana Mishra	Horticulture	International Journal Of Farm Sciences	2021	2229-3744
128	Biofloc Technology In Shrimp Culture: Beneficial Effects And Future Opportunities	Chandan Haldar	Fisheries	Indian Journal Of Natural Sciences	2021	0976-0997
129	Binding Affinity Comparison Of Selected Phytocompounds From Nutmeg With Human Hypocretin -1 Orexin-A	Dr Rosy Mallik,* Santosh Ku. Nanda	Chemistry	Indian Journal Of Natural Sciences	2021	0967-0997
130	In Silico Screening Of Myristica Fragens Extracts Licarin A, Licarin B, Licarin C, Malabaricone B And Malalabaricon	Santosh Ku. Nanda, Dr Rosy Mallik*	Chemistry	Indian Journal Of Natural Sciences	2021	0967-0997

	e C For Their Activity Towards A Methionine Aminopeptidase Type Ii.					
131	Malignant Brain Tumor: Current Progresses In Diagnosis, Treatment And Future Strategies	Dr Bhabani Sankar Satapathy, Dr Gurudutta Pattnaik, Binapani Barik, Dr Chandra Sekhar Patro, Swagatika Das	Pharmacy	Annals Of The Romanian Society For Cell Biology	2021	1583-6258
132	Development Of Accelerated Soaking Method For Mustard Using Microwave Assisted Heating	Gitanjali Behera, Madhusmita Behera, Shubhashree Negi, Geeta Challan	Agricultural Engineering	The Journal Of Phytopharmacology	2021	2320-480x
133	Growth Responses Of Horse Gram Macrotyloma Uniflorum (Lam.) Verdc. To Different Organic Farming System	Madhusmita Naik, Sagarika Parida*	Botany	International Journal Of Botany Studies	2021	2455-541x
134	Assessment Of Genetic Parameters, Trait Association And Diversity Analysis In Indian Mustard [Brassica Juncea (L.) Czern And Coss]	Santanu Nandi, Sanghamitra Rout, Bijaya Sur, Moumita Chakraborty, Lakshmi Hijam, Suvendu Kumar Roy	Genetics And Plant Breeding	Biological Forum - An International Journal	2021	0975-1130

135	Alteration In Germination, Growth And Biochemical Parameters In Cucumis Sativus L. Due To Nickel Stress	Atia Arzoo	Chemistry	International Journal Of Botany Studies	2021	2455-541x
136	Enteric Dissolution Enhancement Of Engineered Gastro Resistant Omeprazole Tablets Using Hydroxypropyl Methylcellulose Acetate Succinate	Sagar Mohapatra, Rudra Narayan Sahoo, Subrata Mallick, Rajaram Mohapatra	Pharmacy	Indian Journal Of Pharmaceutical Education And Research	2021	0019-5464
137	Effect Of Ph And Temperature On Swelling Behaviour Of Tamarind Gum	Braja Bihari Panda, Rudra Narayan Sahoo, Subrata Mallick	Pharmacy	Research Journal Of Pharmacy And Technology	2021	0974-3618
138	A Review On Molecular Mechanisms Of Wheat (Triticum Aestivum L.) And Rice (Oryza Sativa L.) Against Abiotic Stresses With Special Reference To Drought And Heat	Shraddha Tomar, Manepalli Seetha Babu, Dinkar J. Gaikwad* And Sagar Maitra	Plant Physiology	International Journal Of Agriculture, Environment And Biotechnology	2021	0974-1712
139	Application Of Chitosan And Chitosan Derivatives: A Review	Hauzoukim, Sagarika Swain, Subal Kumar Ghosh, Anwasha Roy	Fisheries	The Pharma Innovation Journal	2021	2349-8242

140	Current Scenario Of Antibiotic-Resistance In Indian Aquaculture	Anwasha Roy, Avijit Biswas, Subal Kumar Ghosh, Hauzou Kim, Sagarika Swain	Fisheries	The Pharma Innovation Journal	2021	2349-8242
141	Application Of Probiotics In Aquaculture	Sagarika Swain, Hauzoukim, Subal Kumar Ghosh, Sarita Kumari Das, Anwasha Roy	Fisheries	The Pharma Innovation Journal	2021	2349-8242
142	Use Of Fish Otoliths In Habitat Fingerprinting	Sarita Kumari Das, Kamalesh Panda, Sagarika Swain, Pooja Saklani	Fisheries	The Pharma Innovation Journal	2021	2349-8242
143	A Review Of Aristolochia Indica: Ethnomedicinal Uses, Phytochemistry, Pharmacological And Toxicological Effects	Gopal Krishna Padhy	Pharmacy	Current Traditional Medicine	2021	2215-0838
144	In-Vitro And In-Vivo Antioxidant Activity Of Portulaca Pilosa Linn. A Crop Field Weed Containing Phenolic Compounds	Suman Kumar Mekap, Prasana Kumar Panda, Sagar Kumar Mishra, Sagar Suman Panda	Pharmacy	Indian Journal Of Natural Sciences	2021	0976-0997
145	Influence Of Different Storage Temperatures And Packing Material In Extending Shelf Life And Quality Attributes Of Palmyrah (Borassus	Chandra Surya Rao M, Swami Dv, Ashok P, Salomi Suneetha Dr, Sujatha Rv And Sekhar V	Horticulture	The Pharma Innovation Journal	2021	2349-8242

	Flabellifer L.) Neera					
146	Influence Of Packing Material And Storage Conditions In Extending Shelf Life And Quality Attributes Of Palmyrah (Borassus Flabellifer L.) Jaggery	Chandra Surya Rao M, Swami Dv, Ashok P, Salomi Suneetha Dr, Sujatha Rv And Sekhar V	Horticulture	The Pharma Innovation Journal	2021	2349-8242
147	Effect Of Packing Material And Storage Conditions On Storage Stability Of Palmyrah (Borassus Flabellifer L.) Tuber Flour	Chandra Surya Rao M, Swami Dv, Ashok P, Salomi Suneetha Dr, Sujatha Rv And Sekhar V	Horticulture	The Pharma Innovation Journal	2021	2349-8242
148	Investigation Of Dielectric And Optical Properties Of Lead Free Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> (Bnt) Ferroelectric Ceramic.	S. Lenka, T. Badapanda, S. Sarangi	Physics	Indian Journal Of Natural Sciences	2021	0976-0997
149	Investigation Of Dielectric And Relaxor Behaviour Of Bismuth Doped Barium Titanate Ceramic	A. K. Mahapatra, T. Badapanda, S. Sarangi	Physics	Indian Journal Of Natural Sciences	2021	0976-0997

150	Teacher Competence And 21st Century Challenges: A Critical Analysis Of Existing Teacher Competency Frameworks	Sikha Nayak & Prajna Pani	English	Turkish Online Journal Of Qualitative Inquiry	2021	1309-6591
151	Ahp (Analytical Hierarchical Process): A Novel Approach Of Decision Making In Aerospace Industry Supply Chain Optimization	Arabinda Swamy, Dr. Susanta Kumar Mishra	Management	Turkish Online Journal Of Qualitative Inquiry	2021	1309-6591
152	Prioritising The Factors Influencing Productivity In An Aerospace Manufacturing Sector: An Application Of Analytical Hierarchical Process	Arabinda Swamy, Dr. Susanta Kumar Mishra	Management	Turkish Online Journal Of Qualitative Inquiry	2021	1309-6591
153	Assessment And Prioritization Of Supply Chain Risk: Development Of Ahp Model In Aerospace Industry	Arabinda Swamy, Dr. Susanta Kumar Mishra	Management	Turkish Online Journal Of Qualitative Inquiry	2021	1309-6591
154	Food-Drug Interactions: Updates And Prospective	Gannu Sruthi, Y.Shravan Kumar, Gurudutta Pattnaik, Amulyaranta Behera	Pharmacy	Journal Of Huazhong University Of Science And Technology	2021	1671-4512

155	Comparative Evaluation Of Soaking Characteristics Of Chickpea Using Ambient Water, Hot Water And Microwave-Assisted Heating	Gitanjali Behera, Mitali Madhumita, Nayan Kumar Mehera, Malay Ranjan Dash, Sarthan Pradhan	Agricultural Engineering	Journal Of Scientific Research And Reports	2021	2320-0227
156	Understanding Pattern Of Socio-Economics Of Shg Members Engaged In Horticulture Enterprises In Sonepur District Of Odisha	Mita Meher, Satarupa Modak, Subhrajyoti Panda And Sushree Purabi Panigrahi	Agricultural Extension And Communication	The Pharma Innovation Journal	2021	2349-8242
157	Transforming Indian Agriculture With Digital Technologies	B. Ashokkumar And Akkamahadevi Naik	Agricultural Extension And Communication	Asian Journal Of Agricultural Extension, Economics & Sociology	2021	2320-7027
158	Strategies For Doubling Farmers' Income	Ashok Kumar B And Akkamahadevi Naik	Agricultural Extension And Communication	The Pharma Innovation Journal	2021	2349-8242
159	A Study On Dimension Wise Management Efficiency Of Red Gram Growers In North-Eastern Karnataka	Ashok Kumar B And K Venkataranga Naika	Agricultural Extension And Communication	The Pharma Innovation Journal	2021	2349-8242
160	Extension Reforms In India: An Overview	Akkamahadevi Naik And B. Ashokkumar	Agricultural Extension And Communication	Asian Journal Of Agricultural Extension, Economics & Sociology	2021	2320-7027
161	Status And Preparedness For Agriculture	Akkamaha Devi Naik And Ashok Kumar B	Agricultural Extension And Communication	The Pharma Innovation Journal	2021	2349-8242

	Disaster Management: An Overview					
162	Status Of Zero Budget Natural Farming: An Overview	Akkamaha Devi Naik And Ashok Kumar B	Agricultural Extension And Communication	The Pharma Innovation Journal	2021	2349-8242
163	Bio-Fortification An Innovation Approach To Eradicate Hidden Hunger: A Review	Seri Subba Santosh, Siddhartha Shankar Sharma*, Manish Kumar Agrawal, Laxmipreeya Behera And Jannila Praveena	Genetics And Plant Breeding	The Pharma Innovation Journal	2021	2349-8242
164	Preparation Of Biodiesel From Castor Oil And Performance Evaluation In Vcr Engine	Debashree Debadatta Behera, Aman Kumar Gupta, Shiv Sankar Das, Ritik Kumar Bhatta And Avijit Pradhan	Mechanical Engineering	Journal Of Scientific Research And Reports	2021	2320-0227
165	Eddy Viscosity Turbulent Flow Simulation Over A Simplified Ahmed Body Model	Sujit Mishra, Ashok Misra	Mechanical Engineering	Advances In Dynamical Systems And Applications	2021	0973-5321
166	Low Cost Protected Structures For Off-Season Vegetable Production- A Review	Palle Jayasurya, Subhrajyoti Chatterjee*, Amit Biswas, M Viswanath And Anindita Roy	Horticulture	The Pharma Innovation Journal	2021	2349-8242
167	Eco- Friendly Polymeric Films From Banana Peels	N.K. Seth, Chittaranjan Routray	Chemistry	Indian Journal Of Natural Sciences	2021	0976-0997
168	A Comparative Analysis Of Financial Performance Of Hdfc Bank And Icici	Sibaprasanna Pattanaik, Pramod Kumar Patjoshi	Management	Anvesak	2021	0378-4568



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169	Study On Corporate Financial Distress Scenario In India	Shashikanta Baisag, Pramod Kumar Patjoshi	Management	Niu International Journal Of Human Rights	2021	2394-0298
170	Utilization Of Seaweed-Based Biostimulants In Improving Plant And Soil Health: Current Updates And Future Prospective	Nanda S, Kumar G, Hussain S	Biotechnology	International Journal Of Environmental Science And Technology	2021	1735-1472
171	Block Chain In Modern Finance	Girija Nandini, Pramod Kumar Patjoshi	Management	Anvesak	2021	0378-4568
172	Application Of Interval Type-2 Fuzzy Pid Controller For Frequency Regulation Of Ac Islanded Microgrid Using Modified Equilibrium Optimization Algorithm	Rajendra Kumar Khadanga, Amit Kumar & Sidhartha Panda	Electrical And Electronics Engineering	Arabian Journal For Science And Engineering	2021	2193-567x
173	Cultivar Mixture: Old But Impactful Plant Disease Management Strategy	Gagan Kumar, Md. Mahtab Rashid, Basavaraj Teli, Raina Bajpai, Satyabrata Nanda And Sudheer Kumar Yadav	Plant Pathology	International Journal Of Economic Plants	2021	2349-4727
174	A Detailed Analysis On Performance	Pradipta Kumar Nayak, Anshuman Nayak, Sudhansu Kumar Samal,	Electrical And Electronics Engineering	International Journal Of Contemporary Architecture	2021	2198-7688

	Of Electric Vehicle	Anjan Kumar Sahoo				
175	An Updated Review On Nanomaterials For Biomedical Advancement s: Concepts And Applications	Krishnendu Adhikary, Aritra Chatterjee, Pradipta Banerjee*	Biochemistry And Plant Physiology	Bioscience Biotechnology Research Communications	2021	0974-6455
176	Functional Food As An Immuno-Modulator	Vaditandra Bhavani, *Pradipta Banerjee, Preetha Bhadra	Biochemistry And Plant Physiology	Indian Journal Of Natural Sciences	2021	0976-0997
177	Marine Immune Booster: Seaweeds And Corals	Harshita Singh, *Pradipta Banerjee, Preetha Bhadra	Biochemistry And Plant Physiology	Indian Journal Of Natural Sciences	2021	0976-0997
178	Spirulina As An Immune Booster For Fishes	Khumbar Debbarma, *Pradipta Banerjee, Preetha Bhadra	Biochemistry And Plant Physiology	Indian Journal Of Natural Sciences	2021	0976-0997
179	Statistical Designing And Characterization Of Valsartan Oral Disintegrating Tablet	Iizhar Ahmed Syed, Asim Muhammed Alshanberi, Shakeel Ahmed Ansari	Pharmacy	Advances In Pharmacology And Pharmacy	2021	2332-0036
180	Performance Of Rice Cultivar Cr Dhan 307 (Maudamani) As Influenced By Different Planting Densities In Terai Zone Of West Bengal	Manzil Pandey, Parthendu Poddar, Triptesh Mondal, Pratonu Bandyopadhyay And Jaladhar Gorain	Agronomy And Agroforestry	The Pharma Innovation Journal	2021	2349-8242
181	Ltfe: A Tool To Study Changes In	Shiva Kumar Udayana, Puja	Soil Science	The Pharma Innovation Journal	2021	2349-8242

	Soil Properties	Singh And Jaison M				
182	Nutrient Biogeochemistry Of Coastal Soils	Puja Singh, Shiva Kumar Udayana, Siddhartha Mukherjee, Jaison M, Bishnu Prasad Dash And Mehjabeen	Soil Science	The Pharma Innovation Journal	2021	2349-8242
183	Sulphur: A Boon In Agriculture	Shiva Kumar Udayana, Puja Singh, Jaison M. And Anindita Roy	Soil Science	The Pharma Innovation Journal	2021	2349-8242
184	Modulation Of Catalytic And Biomolecular Binding Properties Of Ruthenium(II)-Arene Complexes With The Variation Of Coligands For Selective Toxicity Against Cancerous Cells	Pragti, Bidyut K. Kundu, Chanchalsonkar, Rakeshganguly, Suman Mukhopadhyay	Chemistry	Polyhedron	2021	0277-5387
185	Influence Of Nutrient Levels On Productivity And Nutrient Uptake By Finger Millet (Eleusine Coracana L. Gaertn) Varieties	Pritam Panda, Sagar Maitra, Shravan Kumar Panda, Tanmoy Shankar, Rahul Adhikary, Masina Sairam And Dinkar J. Gaikwad	Soil Science	Crop Research	2021	0970-4884
186	Productivity And Competitive Ability Of Rabi Maize And Legumes Intercropping System	Shravan Kumar Panda, Sagar Maitra, Pritam Panda, Tanmoy Shankar, Arunabha Pal, Masina Sairam And Subhashisa Praharaj	Agronomy And Agroforestry	Crop Research	2021	0970-4884

187	Optimization Of Linear Array Using Modified Social Group Optimization Algorithm	Srikala Evsdsnslk, M.Murali, M. Vamshi Krishna, Gsn Raju	Electronics And Communication Engineering	Journal Of Scientific & Industrial Research	2021	0022-4456
188	Rheological Properties Of Some Vegetables	Sivala Kumar, A Satish Kumar, T Sudhakar Rao	Agricultural Engineering	Green Farming	2021	0974-0775
189	Assessment Of Butterfly Diversity Index In Some Temples Of Puri, Odisha, India	Aradhana Biswal And Sitaram Swain*	Zoology	Journal Of Entomological Research	2021	0378-9519
190	Covid-19 Prevention By Blocking 6m3m From Sars Cov-2 Of Using Allium Sativum Extract: An In Silico Analysis	Sitaram Swain	Zoology	International Journal Of Botany Studies	2021	2455-541x
191	Salicylic Acid Modulates Acs, Nhx1, Sos1 And Hkt1;2 Expression To Regulate Ethylene Overproduction And Na+ Ions Toxicity That Leads To Improved Physiological Status And Enhanced Salinity Stress Tolerance In Tomato Plants Cv. Pusa Ruby,	3.Yalaga Rama Rao, Mohammad Wahid Ansari, Ranjan Kumar Sahoo, Ratnum Kaul Watta, Narendra Tuteja, Vellanki Ravi Kumara	Biotechnology	Plant Signalling And Behaviour	2021	1559-2316

192	A Deep Learning Method To Forecast Covid-19 Outbreak	Satyabrata Dash, Sujata Chakravarty, Sachi Nandan Mohanty, Chinmaya Ranjan Pattanaik, Sarika Jain	Computer Science And Engineering	New Generation Computing	2021	0288-3635
193	A Systematic Review On Approach And Analysis Of Bone Fracture Classification	Santoshachandra Rao Karanam, Y. Srinivas, S. Chakravarty	Computer Science And Engineering	Materials Today: Proceedings	2021	2214-7853
194	Hematological Signatures In Technopreneurial Rational Decision Corridors	Satpathy, J., Gankar, S.S., Hejmadi, A. And Mallik, B.	Mathematics	The Iup Journal Of Organizational Behavior	2021	0972-687x
195	Investigation Of Solubility Parameter Of Ionic Liquids Through Molecular Dynamics Simulation	Srikant Sahoo	Chemistry	Indian Journal Of Natural Sciences	2021	0976-0997
196	Elementary Framework For An Iot Based Diverse Ambient Air Quality Monitoring System	Jitendra Pramanik, Abhaya Kumar Samal, Subhendu Kumar Pani,, Chinmay Chakraborty	Electrical And Electronics Engineering	Multimedia Tools And Applications	2021	1380-7501
197	Gis Based Saltwater Vulnerability Mapping Of The Northern Coast Of Odisha, East Coast Of India	K K Barik, S R Panda, S Nanda, J K Tripathy, P K Chhotaray, S P Mishra, D Mitra	Civil Engineering	Arabian Journal Of Geosciences	2021	1866-7511
198	The Vulnerability And Management To The Blue	S P Mishra, K K Barik And S K Pattnaik	Civil Engineering	International Journal Of Lakes And Rivers	2021	0973-4570

	Carbon Ecosystem: Coastal Odisha					
199	12-Deoxyphorbol 13- (9, 10-Methylene) Undecanoate As A Drug Candidate For Tuberculosis	Subhankar Dash, Jyoti Prakash Rath	Botany	Indian Journal Of Natural Sciences	2021	0976-0997
200	Technology Adoption Of Farmers Regarding System Of Rice Intensification (Sri) Method In Puri District Of Odisha, India	Ajay Kumar Prusty, Sandeep Rout, Kalyani Pradhan, Gyanaranjan Sahoo, Lakhan Lal Meena And Lipsa Dash	Agricultural Extension And Communication	Journal Of Tianjin University Science And Technology	2021	0493-2137
201	Identification And Standardization Of Maize Genotype For The Rearing Of Maize Spotted Stem Borer, Chiloptartellus (Swinhoe) On Its Natural Host	Manish Kumar Yadav, Lipsa Das And Sandeep Rout	Entomology	International Journal Of Botany Studies	2021	2455-541x
202	Evaluation Of Host Plant Resistance Traits In Certain Genotypes Of Maize (Zea Mays L.) Against Maize Spotted Stem Borer (Chiloptartellus Swinhoe, Crambidae)	Manish Kumar Yadav, Lipsa Das And Sandeep Rout	Entomology	International Journal Of Entomology Research	2021	2455-4758

203	Floristic Inventory Of Hydrophytes With Special Reference To Their Ethnomedicinal Uses In Khordha District Of Odisha	Bhagyeeswari Behera And Kunja Bihari Satapathy	Botany	International Journal Of Botany Studies	2021	2455-541x
204	Neem: Treasure Of Natural Phytochemicals	Soma Maji And Satarupa Modak	Dairy Technology	Chemical Science Review And Letters	2021	2278-6783
205	Long-Run Market Performance Of Acquiring Companies Using Bhar Approach: Evidence From India	Debi Prasad Satapathy And S R Mohapatra	Management	Journal Of Tianjin University Science And Technology	2021	0493-2137
206	Biopesticides And Their Encapsulation Techniques: Current Updates And Future Prospective	Satyabrata Nanda, Triptesh Mondal, Sudheer Kumar Yadav And Gagan Kumar	Agronomy And Agroforestry	International Journal Of Theoretical And Applied Sciences	2021	0975-1718
207	Aqua-Drugs And Chemicals Used In Freshwater Aquaculture- A Review	Anwasha Roy*1, Subal Kumar Ghosh 1 , Haujokim1, Sagarika Swain1, Koyel Bhattacharya2, Debopriyo Mukherji2, Avisek Bardhan2	Fisheries	The Pharma Innovation Journal	2021	2349-8242
208	Application Of Seaweeds And Functional Properties	Haujokim1*, Subal Kumar Ghosh1, Sagarika Swain1, Anwasha Roy1, Sambid Swain1 And	Fisheries	The Pharma Innovation Journal	2021	2349-8242

		Sreepriya Prakasan2				
209	Characterization And Molecular Docking Of Kaolin-Based Cellulosic Film For Extending Ophthalmic Drug Delivery	Ashirbad Nanda	Pharmacy	Indian Journal Of Pharmaceutical Sciences	2021	0250-474x
210	High Order Oscm For Two Point Boundary Value Problem, High Order Oscm For Neumann Boundary Conditions	Santosh Kumar Bhal, Balaji Padhy	Mathematics	Indian Journal Of Natural Sciences	2021	0976-0997
211	Effect Of Organic Manure On Growth And Development Of Amur Carp	Deepanwita Sahoo, Atia Arzoo, Yashaswi Nayak	Zoology	Gis.Science	2021	1869-9391
212	Performance Analysis Of Variable Compression Ratio Engine Using Argemone Mexicana Biodiesel	Manas Ranjan Padhi And Subham Chakraborty	Mechanical Engineering	Turkish Online Journal Of Qualitative Inquiry	2021	1309-6591
213	Green Synthesis Of Gold Nanoparticles: Catalytic Reactivity Towards Degradation Of	Anupam Sahoo, Sangita Kumari Swain, Niladri Sarkar	Chemistry	Indian Journal Of Natural Sciences	2021	0976-0997



	Paranitrophenol					
214	Graphene Based Polymer Nanocomposites As Packaging Materials : A Review	Niladri Sarkar, Gyanaranjan Sahoo, Anupam Sahoo	Chemistry	Indian Journal Of Natural Sciences	2021	0976-0997
215	Design And Analysis Of Voltage Regulator For A Microgrid For Voltage Regulation And Protection	Sasanka Tripathy, Rama Prasanna Dalai	Electrical And Electronics Engineering	Design Engineering (Toronto)	2021	0011-9342
216	Ecological And Breeding Behaviour Of Selected Anurans In India: A Review	Bhagyashree Panda And Siba Prasad Parida	Zoology	Indian Journal Of Natural Sciences	2021	0976-0997
217	Comparative Study On Ecology And Breeding Behavior Of Two Anuran Species Of Ranid Euphleatics Hexadactylus And Rachophorid Polypedatus Maculatus In North Odisha	Bhagyashree Panda And Siba Prasad Parida	Zoology	Journal Of Advanced Zoology	2021	0253-7214
218	Evaluation Of Cell Parameter Variation On Energy Absorption Characteristic	Santosh Kumar Sahu, Sutanu Samanta, P. S. Rama Sreekanth	Mechanical Engineering	Arabian Journal For Science And Engineering	2021	2193-567x

	Of Thermoplastic Honeycomb Sandwich Structure					
219	Renewable Energy (The Alternate Source Of Energy )	Sasmita Jena	Mathematics	Indian Journal Of Natural Sciences	2021	0976-0997
220	Marine Drive Highway Along Central Odisha Coast, India; Feasibility And Eia Inferences	Siba Prasad Mishra	Civil Engineering	Current Journal Of Applied Science And Technology	2021	2457-1024
221	Probing The Crisis Of Regional Connectivity Instigated By The Natural Disasters, Mizoram, India	Siba Prasad Mishra, Jyoti Prakash Puhan, Saswat Mishra	Civil Engineering	International Journal Of Environment And Climate Change	2021	2581-8627
222	Physiognomies And Strength Investigation Of Concrete Part Blended By Wood Ash	Smruti Saswati Dash, Siba Prasad Mishra, Sagarika Panda	Civil Engineering	International Journal Of Environment And Climate Change	2021	2581-8627
223	Entropy Optimized Darcy-Forchheimer Slip Flow Of $Fe_3O_4-(CH_2OH)_2Fe_3O_4-CH_2OH_2$ Nanofluid Past A Stretching/Shrinking Rotating Disk	Manoj Kumar Nayak, Arun Patra, Sachin Shaw, Ashok Misra	Mathematics	Heat Transfer	2021	2688-4542

224	Flow And Heat Transfer Analysis Of H <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> Nanofluid Over A Stretching Surface With Electrified Nanoparticles And Viscous Dissipation	Subhashree Panda, Ashok Misra*, Saroj Kumar Mishra, Aditya Kumar Pati, Kamal Kumar Pradhan	Mathematics	Advances In Dynamical Systems And Applications	2021	0973-5321
225	Electrochemical Mass Transfer In Bubble Columns With Conical Entry In The Presence Of Displaced Devices	Gvs Sarma, P Swarnadhar, M Vijay, K V Ramesh	Chemical Engineering	Aip Conference Proceedings	2021	0094-243x
226	Management Of Construction And Demolished Waste As An Aggregate Substitute In Cement Concrete	Jayasmita Mahakud, Siba Prasad Mishra, Ramesh Chandra Mohanty, Sagarika Panda	Mechanical Engineering	International Journal Of Environment And Climate Change	2021	2581-8627
227	Potassic Fertilizer Management For Sustainable Groundnut Productivity In India: A Review	Bornali Borah	Soil Science	Agricultural Reviews	2021	0253-1496
228	A Review On Rhizobia And Pgps Interactions In Legumes	Soumya Routray, Suman Kumari, Bornali Borah, Harsha Shelat, J. P. Solanki, Veena Khanna	Soil Science	The Pharma Innovation Journal	2021	2349-8242

229	Business Ethics In Organisations Of Asia, Europe And U.S Countries	G.Mansa & Dr.Madhusmita Choudhury	Management	Levant	2021	0075-8914
230	Effect Of Gender & Course On Self-Management & Online Learning Effectiveness	Dr.Madhusmita Choudhury & Dr. Preeti Sharma	Management	Levant	2021	0075-8914
231	Non-Conventional Approach For The Management Of Early Blight Disease In Potato	Ritesh Kumar, Anshu Kumar, Drs Bharati, Shikha Pathak And Monika Karn	Plant Pathology	The Pharma Innovation Journal	2021	2349-8242
232	Enhancement Of Surface Quality Of Dmls Aluminium Alloy Using Rsm Optimization And Ann Modelling	Dr.P. S.Rao, A. Subhramanyam,K. Siva Prasad ,	Mechanical Engineering	Journal Of Mechanical Engineering	2021	1823-5514
233	Rna Interference: A Functional Genomics Approach For Plant Disease Management	Sutar Suhas Bharat, Sonu Priya Sahu, Subhransee Sanlistha Sahu, Pratyasha Mohanty, Satyabrata Nanda, Rukmini Mishra	Botany	Asian Journal Of Biological And Life Sciences	2021	2278-747x
234	Heterosis Studies In Maize (Zea Mays L.) For Grain Yield And Its Attributes	Niranjan Kumar Chaurasia, Rbp Nirala, Raj Kishor Roy And Jai Prakash Yadav	Genetics And Plant Breeding	The Pharma Innovation Journal	2021	2349-8242

235	A Review On Phytochemicals Present In Ocimum Santum And Its Medicinal Property	Nibedita Badajena, Atia Arzoo	Chemistry	International Journal Of Botany Studies	2021	I2455-541x
236	Identification Of Phytochemicals And Anticancer Activity Of Ethanolic Extract From The Tubers Of Typhonium Flagelliforme (Lodd.)	D. Swain, G. Pushpalatha*, M. J. Bordoli, P. Das	Biotechnology	International Journal Of Botany Studies	2021	2455-541x
237	Variability Studies For Yield And Biochemical Traits In Different Rice (Oryza Satival.) Genotypes Under Irrigated And Drought Stress Conditions	Sirisha Bora, Pushpalatha Ganesh, Hari Ram Kumar And Prabhat Kumar	Biotechnology	Bulletin Of Environment, Pharmacology And Life Sciences	2021	2277-1808
238	Valorization Of Crustacean Shell Waste For Extraction Of Chitin And Chitosan	Sushree Mandal, Subal Kumar Ghosh, Sagarika Swain, Sambid Swain, Hauzoukim, Anwasha Roy And Pallavi Panda	Fisheries	The Pharma Innovation Journal	2021	2349-8242
239	Bioactive Antidiabetic Flavonoids From The Stem Bark Of Cordia Dichotoma Forst.: Identification,	N. Hussain, B.B. Kakoti, M. Rudrapal, R. K. Sahoo, K. Sarwa, I. Celik, E. I. Attah, S. J. Khairnar, S. Bhattacharya And S. G. Walode	Pharmacy	Molbank	2021	1422-8599

	Docking And Admet Studies					
240	Transition Metal Catalyzed Hydroalkoxylation Of Alkynes: An Overview	Dr. Santosh K. Nanda, Dr. Rosy Mallik	Chemistry	Chemistry - A European Journal	2021	0947-6539
241	Learning By Doing: Enhancing Speaking Skills Of Engineering Students Through Tbl Approach	N.R. Howji, S. Allamneni, Ajit Kumar Pradhan And V.K Chauvan	English	International Journal Of Aquatic Science	2021	2008-8019
242	Novel Zno Blended Sno2 Nanocatalysts Exhibiting Superior Degradation Of Hazardous Pollutants And Enhanced Visible Photoemission Properties	A.Palai,N.R,Panda, Dojalisa Sahu	Chemistry	Journal Of Molecular Structure	2021	0022-2860
243	Studying The Effects Of Cu Doping On Structure And Photoluminescence Properties Of Sno2 Nanoparticles With Its Effectiveness Towards The Mineralization Of Toxic Industrial Dye	Pk Mishra, Nr Panda, Sp Pati, Sk Biswal, Dojalisa Sahu	Chemistry	Ecs Journal Of Solid State Science And Technology	2021	2162-8769

244	Bio-Hydrothermal Synthesis Of ZnO-ZnFe <sub>2</sub> O <sub>4</sub> Nanoparticles Using Psidium Guajava Leaf Extract: Role In Waste Water Remediation And Plant Immunity	S K Sahoo, G K Panigrahi, A Sahoo, A K Pradhan, A Dalbehera	Chemistry	Journal Of Cleaner Production	2021	0959-6526
245	Physiological And Molecular Mechanism Of Nitrate Uptake And Assimilation In Plants - A Review	Lalichetti Sagar , Sultan Singh , Dinkar J. Gaikwad * , Sagar Maitra , Kazem Nikzad, Meenakshi Attri And Masina Sairam	Plant Physiology	International Journal Of Botany Studies	2021	2455-541x
246	A Review On Long Distance Phloem Transport And Distribution Of Photo Assimilates Into Developing Organs	Masina Sairam, Dinkar J. Gaikwad * , Sagar Maitra And Sagar Lalichetti	Plant Physiology	International Journal Of Botany Studies	2021	2455-541x
247	A Comprehensive Study Of A Pid Controller For The Speed Control Of Dc Motor	Smita Jana, Rama Prasanna Dalai, Jharna Majumdar, Sudip Gupta	Electrical And Electronics Engineering	Indian Journal Of Natural Sciences	2021	0976-0997
248	Formulation Development And Characterization Of Lamotrigine-Salicylic Acid Crystalline	Rudra Narayan Sahoo, Bhabani Sankar Satapathy And Subrata Mallick	Pharmacy	Indian Journal Of Chemical Technology	2021	0971-457x

	Product: A Strategy To Improve Oral Release Of Drug For Better Management Of Epilepsy					
249	High Order Oscm For Neumann Boundary Conditions	Santosh Kumar Bhal, Balaji Padhy	Mathematics	Indian Journal Of Natural Sciences	2021	0976-0997
250	Effect Of Sesame + Pulses Intercropping Systems On Growth, Yield And Quality Parameters Of Sesame	B. Arpita <sup>1*</sup> , G. C. Malik <sup>2</sup> , Mahua Banerjee <sup>3</sup> And Jnana Bharati Palai <sup>4</sup>	Agronomy And Agroforestry	The Pharma Innovation Journal	2021	2349-8242
251	Design Innovation And Industrial Utilization Of Bamboo: A Prospective Base Of Income For Rural Livelihoods	Gyana Ranjan Sahoo, Sandeep Rout, Lipsa Dash	Entomology	Journal Of Tianjin University Science And Technology	2021	0493-2137
252	Periplaneta Americana L. A Potential Source Of Traditional Medicine: Chemometric Analysis, In Vitro And In Silico Study	Suchismeeta Behera, Amulyaratna Behera, Suman Kumar Mekap, Chinmaya Chidananda Behera, Atul Kadam, Prafulla K Mohanty	Pharmacy	Journal Of Biomolecular Structure And Dynamics	2021	0739-1102
253	Lithium-Ion Battery And Battery Management System For An Electric Vehicle	Abhijit Mohakud, Dr.Sudhansu Kumar Samal	Electrical And Electronics Engineering	Design Engineering (Toronto)	2021	0011-9342



254	Renewable Energy Sources, Technologies And Protection Challenges In Indian Context: A Comprehensive Review	Anjan Kumar Sahoo, Girija Sankar Panigrahi, Krushna Keshab Baral, Sudhansu Kumar Samal	Electrical And Electronics Engineering	Design Engineering (Toronto)	2021	0011-9342
255	An Insight Into Mechanical & Thermal Properties Of Shape Memory Polymer Reinforced With Nanofillers; A Critical Review	Somalika Pradhana , Santosh Kumar Sahub , Jitendra Pramanik , Nitesh Dhar Badgayan	Electrical And Electronics Engineering	Materials Today: Proceedings	2021	2214-7853
256	Estimation Of Fish Production In India Using Arima, Holt's Linear, Bats And Tbats Models	Pradeep Mishra, Soumik Ray , Abdullah Mohammad Ghazi Al Khatib, Mostafa Abotaleb , Shiwani Tiwari, Amr Badr And Ritisha Balloo	Agricultural Statistics	Indian Journal Of Ecology	2021	0304-5250
257	An Improved Harmony Search Based Extreme Learning Machine For Intrusion Detection System	Nitu Dash, S. Chakravarty, S. Satpathy	Computer Science And Engineering	Materials Today: Proceedings	2021	2214-7853
258	Cutting Force Measurement In Turning Of Aluminium Alloy Using Taguchi Method	Dillip Kumar Mohanta, Mohammed Siddique	Mathematics	Indian Journal Of Natural Sciences	2021	0976-0997

259	Does Corporate Governance Matter ? Evidence From Indian Banking Companies	Debi Prasad Satapathy And Mohapatra .S R	Management	Journal Of Jilin University	2021	1671-5497
260	Modification Of Biocoke Destined For The Fabrication Of Anodes Used In Primary Aluminum Production	Belkacem Amara, Fatima-Ezzahra Faouzi, Duygu Kocaeffe, Yasar Kocaeffe, Dipankar Bhattacharyay, Jules Cote, Andre Gilbert	Chemistry	Fuel	2021	0016-2361
261	Beneficial Microorganisms For Stable And Sustainable Agriculture	Gagan Kumar, Md. Mahtab Rashid, Satyabrata Nanda	Plant Pathology	Biopesticides International	2021	0973-483x
262	Evaluation Of Various Insecticides As Seed Protectants Against Pulse Beetle, <i>Callosobruchus chinensis</i> L. Chrysomelidae On Pigeonpea <i>Cajanus cajan</i> L. Seed Under Ambient Storage	Manish K Yadav, Lipsa Das And Sandeep Rout	Entomology	Journal Of Plant Development Sciences	2021	0974-6382
263	Review On Deep Learning Based Automatic Detection Of Covid -19 From Chest X- Ray Images	Debaraj Rana, Subrat Kumar Pradhan	Electronics And Communication Engineering	Current Journal Of Applied Science And Technology	2021	2457-1024

264	Facial Expression Recognition Using Python & Cnn Model	Debaraj Rana, Subrat Kumar Pradhan	Electronics And Communication Engineering	Current Journal Of Applied Science And Technology	2021	2457-1024
265	Environmental Health: The Most Neglected Part Of One Health	Mrs Sonali Dash, Dr. Adya Prakash Rath	Paramedics	Environment Conservation Journal	2021	0972-3099
266	Major Fungal Diseases Of Rice: A Case Study	Suchismita Samal, Sagarika Parida	Botany	Asian Journal Of Biological And Life Sciences	2021	2278-747x
267	Quantitative Ecological Study Of Rhizophoraceae Mangroves Of Bhitarkanika Wildlife Sanctuary Regions Of Odisha Coast, India	Srinivas Acharya , Deepak Kumar Patra, Gyanranjan Mahalik*, Pradipta Kumar Mohapatra	Botany	Proceedings Of The National Academy Of Sciences, India Section B: Biological Sciences	2021	0369-8211
268	Medicinal Uses Of Rare, Endangered And Threatened (Ret) Plant Species	Samikshya Jena, Prachi Pratyusha Behera, Ushashee Mandal, Sagarika Parida, Gyanranjan Mahalik*	Botany	Journal Of Plant Development Sciences	2021	0974-6382
269	Pollen Carrying Capacity Of Apis Cerana Indica F. In Gajapati District Of Odisha	Deepayan Padhy, V Ramalakshmi, Lipsa Dash, Dr. Sudhanshu Bala Nayak And Dr. Nihal R	Agronomy	The Pharma Innovation Journal	2021	2349-8242
270	Embelia Ribes Burm F. (Vai Vidanga)- An Overview	Sandeep Rout, Gyanaranjan Sahoo, Deepayan Padhy, Udit Narayan Mishra And Ajay Kumar Prusty	Agronomy	International Journal Of Modern Agriculture	2021	2305-7246

271	Foraging Speed Of Castor Pollinators	Sudhanshu Bala Nayak, Yogesh Kumar, Sunita Yadav , K Sankara Rao	Entomology	Indian Journal Of Entomology	2021	0367-8288
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## 7.Seminars & Conferences

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

**Table 7: Details of Seminars, Workshops & Conferences Organised in 2021-22**

### CONFERENCES

Sl. No.	Topic
1.	National level Conference, sponsored by AICTE on " Repair & Maintenance of Distribution Transformer,,BBSR 25th to 26th August 2021
2.	International Conference" Recent Advances on Applied Physics All Campus 04-08-2021 Dr. Tapan Dash SOAS
3.	National Conference on Recent Trends in Bio-Sciences All Campus 06-03-2022 Dr. Gagan Kumar Panigrahi SOAS
4	Conference on Role of the University in Achiving SDGs Online (Zoom) 5.10.2021 to 6.10.2021 Dr. Ambika
5	International Conference on Pulses Research (ICPR2022)", an international conference (virtual mode) along with the Society for Plant and Agricultural Sciences on 10th Feb, 2022
6	International Conference on "Recent Advances in Materials during 21-23 March 2022.
7	International conference Bioresources of Our Environment: Utilization and Conservation" in hybrid mode from 28th, March to 30th March 2022.

### WEBINAR/SEMINAR

SL.N O.	Webinar/Seminar	Dates delivered	No of trainin g days	Resource person Name
1	Webinar on Theories Governing Ecological Dynamics in a Regional Scale: Insights from long term Monitoring of wetland Ecosystems	11.01.2021	1 hr	Dr. B. Anjan Kumar Prusty, Associate Professor and Head, Department of Natural Resource Management and Geoinformatics, Khallikote University, Berhampur
2	Webinar on: Novel Lysogenic-Lytic Switch	20.02.2021	1 hr	Dept. of Physics. University of Texas at Arlington, USA
3	Data Analytics Webinar	11.05.2021	1	Mr. Muralidhara Anandamurthy, Academic Ambassador JMP(Statistical Discovery from SAS) JMP
4	Webinar on "Sustainable Development and Clean Energy"	19.05.2021	1	Mr. Dhruv Bhardwaj (Sr.G.M. Senior General Manager Sustainable Development Asia Pacific, at Schneider Electric.)and Mr. Gautam Pradhan( Regional Head, Odisha and Jharkhand, Selco)
5	Webinar on Integration of Effluent Treatment using Integrated Phycoremediation and Microalgal Biorefinery	29.05.2021	1 hr	Dr.Ram Chavan, Assistant professor, School of Bioengineering Sciences and Research in MIT, Pune
6	Webinar on Bee Keeping: Vital input for Sustainable Livelihood	05.06.2021	1	Dr. Rajeshkumar Sivakumar, Asst.Professor, Department of Zoology at

				Kongunada Arts & Science College Tamil Nadu
7	Webinar on Biology of Birds	14.06.2021	1	Prof. Dr. Shiba Prasad Parida, Associate professor, Department of Zoology, School of Applied Science, CUTM, BBSR
8	webinar on “Innovation and Intellectual Property Management in HEIs”	02.08.2021	1	Dr. Bijay Kumar Sahu
9	Webinar on "Return of the Taliban and the Future of Afghanistan"	03.09.2021	1	Dr. Madhumita Das
10	webinar on Science, Engineering and Technology in Nature	13.09.2021	1	Dr. G.N. Indresha
11	webinar on Genomic approaches towards improvement of Pearl Millet	29.09.2021	1	Dr. Harshraj Subhash Shinde
12	Webinar on "Rechargeable Batteries for energy storage applications"	30.09.2021	1hr	Dr. Rajendra Singh Dhaka
13	Webinar on Sustainable fishery, how to achieve it	07.10.2021	1 day	Dr. Algari Thivakaran
14	Webinar on Analysis and Solutions of various	18.10.2021	1hr (Online)	DR. DILLIP ROUT

	Attacks on Online Social Network (OSN)			
15	Webinar on "Numerical prediction of microscale fluid flow and heat transfer"	22.12.2021	1	Dr. Manoj Kumar Moharana, Assistant Professor Grade I, Department of Mechanical Engineering, National Institute of Technology Rourkela
16	Webinar on Advanced Concept in Nutrition and Health of Fish	25.12.2021	1	Dr. A Shanmugam , D.Sc,FAZ,FNIE ,Dip.LCS(Belgium) , Professor (Retd.) ,Faculty of Marine Sciences , Annamali University, Parangiperrai, Tamilnadu
17	Webinar on "Innovation Amidst COVID-19 Pandemic: The IISER Pune Story"	28.01.2022	1	Dr. Sunil Nair, IISER Pune
18	Webinar on "Introduction to 3D Game Design & Development Process"	05.02.2022	1	Rajesh M Dharan holds the position of Senior Game Generalist at Fingent Global Solutions, Infopar, Koch
19	Webinar " Robotics"	15.02.2022	1	Prof. N.Jeevartnam ( Co-ordinator)
20	webinar on "Intellectual Property Rights (IPR) Awareness Programme " under National Intellectual Property	25.02.2022	1	Mr. Pritidh R Pradhan, Mr. Dhiren Pattanayak

	Awareness Mission (NIPAM)			
21	Private Wealth Management and Digital Strategy".	05.10.2021	1	Dr. ANITA PATRA
22	Ethnography and Ethnographic Tools in Research"	16.10.2021	1	Dr. Madhumita Das
23	Insta Money App	06.11.2021	1	K V Kalyan
24	one day seminar on "Energy, Radiation and Materials	27.10.2021	1	<p>1. Prof. S. K. Biswal (Vice – President of IANCAS-ERC)</p> <p>2. Prof. K. K. Nanda, Director, IOP &amp; President, IANCAS-ERC</p> <p>3. By Dr. S. N. Sarangi, IOP)</p> <p>4. Dr. Binita Nanda, ‘SoA’ University</p> <p>5. Dr. Biswajit Mallick, IOP</p>



## WORKSHOP

Sl. No.	Workshop Title	Dates delivered	No of training days	Resource person Name
1	Workshop on Genomic data analysis	23.06.2021 - 24.06.2021	2	Chris Kirchberg, Academic Ambassador JMP, USA
2	Workshop on Dam Break Modelling Using HEC RAS	03.08.2021 - 05.08.2021	3	Dr.Prafulla Kumar Panda (CUTM), Dr.Kamal Kumar Barik(CUTM), Rosysmita Bikram Singh((NIT Rourkela), M.Uma Maheswar Rao(NIT Rourkela), Satya Narayana Bhuyan((NIT Rourkela)
3	Workshop on NAAC Preparedness	30.12.2021	1	Prof. Amiya Rath, Dr. B.S. Ponnudiraj, Dr. Ruchi Tripathi , Dr. Neelesh Pandey , Advsor NAAC
4	Workshop on Goal Setting	05.01.2022 to 06.01.2022	2	Prof. P.K. Mohanty
5	Workshop on Recent Trends in Software Industries	11.01.2022	1	Mr. Jeevan Jena
6	Workshop on Drone Image Processing (DIP-2022)	08.02.2022 to 12.02.2022	5	Dr. Sujata Chakravarthy, Dr. Sunny, Dr. Prafulla Panda
7	Workshop On Skill Set Required For Entrepreneurship	23.02.2022	1	Dr. Namita Patnaik, Maharshi Law College

8	workshop on "Infographics: A Powerful Tool for Visual Communication".	04.03.2022		Dr. Prajna Pani, Mr. Raj
9	Workshop on "Scope and Career in Clinical Research	05.03.2022	1	Mr Ajit Kumar Tripathy, Director, Clininstinct, India

## 8. Faculty & Staff Development Programmes

The Faculty and Staff are the most important resource of the University. The faculty strength includes 205 in Paralakhemundi campus, 157 in Bhubaneswar campus, 25 in Rayagada campus and 33 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 8 : Details of In-house Faculty Development Programmes (2021-22)**

Sl. No.	FDP Title	Dates delivered	No of training days	Resource person Name
1	Material Studio FDP	06.05.2021	1	<u>Dr. Padmaja Pattnaik</u>
2	CATIA FDP	18.05.2021 to 09.06.21	21 Days	Ms. Sipalin Nayak, N.Laxmidhar Reddy
3	Python FDP	24.05.2021 to 15.06.21	21 Days	Dr. Prafulla Panda & Dr. Amit
4	Material Studio FDP	24.05.2021 to 15.06.21	21 Days	Dr. Padmaja Pattnaik
5	FDP session on Design of Experiments by Center for drug design	31.05.2021	1	Dr. Gurudutta Pattnaik

6	FDP on Suitable Journal Selection and Journal Metrics	3-10.06.2021	7	Dr. Susanta Kumar Biswal
7	FDP on Patents, Copyrights and Design Patents	12.06.2021	1	Dr. ANITA PATRA
8	FDP on Recent advances in crop management	14-19.06.2021	6	Tanmoy Shankar
9	FDP on "Go to Market"	14.06.2021	1	Sipalin Nayak
10	FDP on Academic Writing	14.06.2021	1	Dr. Madhumita Das
11	FDP on AI ML and Video Processing	14.06.2021	1	Dr. Dillip Rout
12	Material Studio FDP	14.06.2021	1	Padmaja Patnaik
13	FDP on Academic Writing	15.06.2021	1	Dr. Madhumita Das
14	FDP on Problem Solving and Creative Thinking	16.06.2021	1	Dr. Madhusmita Choudhury
15	SIMULIA FDP	17.06.2021	1	Dr. Mukundjee Pandey
16	FDP on Business Model Canvas and Lean Canvas	18.06.2021	1	Kalapoorna Nalla
17	FDP on Business Model Canvas and Lean Canvas	19.06.2021	1	Kalapoorna Nalla
18	FDP on "Artificial Intelligence, Machine Learning and Video Processing"	21.06.2021	1	jeeva ratnam

19	FDP series of Education Technology on Adobe Workshop	21 to 24.06.2021	3	Dr. Madhumita Das
20	FDP on Adobe Photoshop	24.06.2021	1	Kalapoorna Nalla
21	FDP on JAVA+NodeJS+Python	24.06.2021	1	Padmaja Patnaik
22	FDP on "Artificial Intelligence, Machine Learning and Video Processing"	25.06.2021	1	Nilamadhab Dash
23	FDP series of Education Technology on Academic Writing	25.06.2021	1	Professor (Dr.) R.C.Mohanty
24	FDP training on "Fundamental of Image and Video Processing "	25.06.2021	1	Sasmita Nayak
25	FDP on Academic Writing	25.06.2021	1	Kalapoorna Nalla
26	FDP series on Video Editing	28.06.2021	1	Dr. Madhumita Das
27	FDP on NGS Data analysis	30.06.2021	1	Chris Kirchberg, USA
28	FDP on Smart Agriculture	01.07.2021	1	Dr. ANITA PATRA
29	FDP on Digital Marketing	02.07.2021	1	Kalapoorna Nalla
30	FDP on Data Analysis	06.07.2021	1	Dr. Madhumita Das
31	FDP talk on "Innovation and Technology Frontiers of	13.07.2021	1	Dr. ANITA PATRA

	Unmanned Vehicles: An Overview"			
32	ATAL FDP	26 to 30.07.2021	5 days	Dr. Ashok Mishra
33	FDP on NGS Data analysis	01.08.2021		1 Chris Kirchberg, USA
34	FDP on Sustainable Development Goals	19.09.2021		1 Prof. Supriya Pattanayak
35	FDP on "Ansys EM training in Research"	16/11/2021		1 By CADFEM
36	Five-Days Online FDP on Smart Manufacturing through Digital Manufacturing	22.11.2021 - 26.11.2021		5 Dr. P.S.Rao, Swarna prabha & Subrat Pradhan, Mr. Mukund jee Pandey
37	FDP on "MATLAB in Research"	23.12.2021		1 Mr. Subhajit Goswami, MathWorks

**\* Only a few of the FDPs are mentioned here, this is not an exhaustive list.**

## 9. Recognitions & Achievements

### Ph.D. Awarded

- *Madusmita Ghadai In Civil Engineering "Multi-Variate Statistical Studies On Spatial & Temporal Variations Of Surface Water Quality In Brahmani River, India And Development Of Integrated Model For Quality Assessment Using Analytical Hierarchy Process"*
- *Aditya Kumar Pati in Mathematics "Heat and Mass Transfer Analysis in Modelling Laminar Boundary Layer Nanofluid Flow With Nanoparticle Electrification."*
- *Jayasankar Panda In Management, "Impact Of Hearing Impairment On Communication And Behaviour Of Elderly Person."*
- *Vadrevu Pavan Kumar in Computer Science & Engineering "Personal Privacy Preserving Data Publication in the Age of Big Data."*
- *B.S.S.V.Ramesh Babu in Electronics & Communication Engineering "Novel Techniques of Elliptical Antenna Array Synthesis Using Evolutionary Computing Tools."*
- *A.V.S.Swathi in Computer Science & Engineering "Optimization of Circular Antenna Array Using Evolutionary Computing Tools."*

- *Ravuri Viswanadham in Electronics & Communication Engineering “Investigation on Non-Uniform Sampling Schemes For Signal Processing and Wireless Communication Applications.”*
- *Santosh Patro In Mechanical Engineering “Multi Response Optimization Of Process Parameters In Wire Edm Machining Of D2 Steels With Grey Fuzzy Technique”*
- *Arun Kumar Patra in Mathematics “Study On Different Aspects of Magnetohydrodynamic Flow Phenomena of Nanofluids over the Stretching/Shrinking Surfaces.”*
- *Kamala Kumar Pradhan in Mathematics “Modeling Electrification of Nanoparticles in Non-Homogeneous Nanofluid Flow with Heat Transfer over Stretching Surfaces.”*
- *Soumyendra Mishra in Mathematics “Modeling Heat Transfer Aspects in the Magnetohydrodynamic Flow of Various Nanofluids.”*
- *Chitrasena Padhy In Agricultural Extension & Communication “Risk And Stress Involved In Cotton Cultivation-A Study On Cultivation Practices Followed In Odisha Along With Strategies Suggested For Effective Stress Management.”*
- *S. Sudheer Mangalampalli In Computer Science & Engineering “Nature Inspired Energy Efficient Task Scheduling Algorithm Based On Multi Criteria Decision Making Method In Cloud Computing.”*
- *Tapas Bantha in Management “Workplace Spirituality and Work Engagement: A Salutary Nexus.”*
- *Gagan Kumar Panigrahi In Zoology In “Studies On Post-Transcriptional Reprogramming Of Resistance Genes Upon Pathogen Infection In Arabidopsis Thaliana”*
- *Ajit Kumar Patro In Electronics & Communication Engineering “Efficient Algorithms And Architectures For Implementation Of The Discrete Cosine Transform And Discrete Sine Transform ”*
- *Swetalina Mishra in Management “A Study on Competency Mapping Of Employees of Power Sector in Odisha.”*
- *Tapaswini Dash in Management “Motivation and Job Satisfaction of Rural Public Health Care Professionals of Odisha: Assessment and Strategies for Improvement.”*
- *Jayasmita Beura in Chemistry “Efficient Algorithms and Architectures for Implementation of the Discrete Cosine Transform and Discrete Sine Transform.”*
- *Pradip Kumar Prusty in Zoology “Modeling Electrification of Nanoparticles in Non-Homogeneous Nanofluid Flow with Heat Transfer over Stretching Surfaces.”*
- *Binoy Kumar Bose in Management “Relationship between Financial Inclusion and Economic Improvement in Khordha District of Odisha.”*
- *Srikantapatnaik in Electronics & Communication Engineering “Optimization of Image Processing Methods for Edge Detection Based On Edge Strength Using Neuro Fuzzy Techniques.”*
- *Meenakshi Bose in Management “Valuing Women’s Unpaid Work: A Case Study of Khordha District, Odisha.”*

## Session Chaired, Talk Delivered

- Session Chaired by Dr. Nilaya Kumar Mohanty, Webinar on The Current Era of Science and Technology: Role of students, 20<sup>th</sup> July, 2021.
- Session Chaired By Dr.Gangadhar Purohit, Centurion University of Technology and Management,29<sup>th</sup> Dec,2021
- Session Chaired By Dr.Subrata Sarangi, Centurion University of Technology and Management,18<sup>th</sup> Nov,2021
- Session Chaired By Dr. Sagarika Parida, Derabis College, Kendrapara, 30<sup>th</sup> December 2021.
- Session Chaired By Dr. Chhayabrita Maji, Institute of Physics, 8<sup>th</sup> September 2021.
- Session Chaired By Dr. Chhayabrita Maji, BML Munjal University, Gurugram, 28<sup>th</sup> February 2022.
- Session Chaired By Dr. Yashaswi Nayak, Evation Agri Vision 2022, Ravenshaw University Cuttack on 6<sup>th</sup> March 2022.
- Session Chaired By Dr. Sagarika Parida, Subhadra Mahatab Mahavidyalaya, Asureswar, Cuttack, 29<sup>th</sup> January 2022.
- Session Chairde By Dr. Nilaya Kumar Mohanty , International Webinar Recent Advances in Science and Technology, Technical Session, IGIT Sarang, Odisha, 28 July, 2021
- Session Chairde By Dr Tumbanath Samantara, 4th International Conference on Frontiers in Industrial andApplied Mathematics (Virtual Mode), 26<sup>th</sup> Session, Department of Mathematics, Sant Longowal Institute of Engineering & Technology, Longowal, 21-22 December 2021
- Session Chairde By Saubhagalaxmi Singh, 4th International Conference on **Frontiers in Industrial andApplied Mathematics (Virtual Mode)**, 4th Session, Department of Mathematics, Sant Longowal Institute of Engineering & Technology, Longowal, 21-22 December 2021
- Session Chairde by Dr. Dinkar Gaikwad, Colleege of Agriculture, Parul University, Gujrat, Hydroponics farming for exotic vegetables.

## *Faculty & Staff Performance Awards 2022*

### *Congratulations to the Awardees !!!*

## Provost Research Faculty Awards 2022 :

### *Achiever Award winners-*

Dr. Satyabrata Nanda (MSSSoA)  
Dr. Gagan Panigrahi (SoAS)  
Dr. Ashish Sarangi (SoAS)  
Dr. Shraban Kumar Moharana (SoAS)  
Dr. Chandra Sekhar Dash (SoET)  
Dr. Santosh Kumar Satapathy (SoAS)

### *Distinguished Achiever Award winners-*

Dr. Ashish Ranjan Dash (SoET)  
Dr. Rajendra Kumar Khadanga (SoET)

Dr. Prasanta Kumar Rath (SoAS)  
Dr. Ranjan Kumar Sahoo (MSSSoA)  
Dr. Pramod Patjoshi (SoM)

*Abdul Kalam Chair Professor winner-*

Dr. Ramesh Chandra Mohanty (SoET)

## Faculty & Staff Performance Awards 2022:

### CERTIFICATE OF EXCELLENCE (For Patents, Design Applications, Copyrights, ATAL FDPs)

Sl. No.	Name of the Faculty	Category	Year	School
1	Dr. P.S. Rao	ATAL FDP	2021-22	SoET
2	Dr. Ashok Misra	ATAL FDP	2021-22	SoAS
3	Dr. Satyabrata Nanda	External Funded Projects	2021-22	MSSSoA
4	Dr. Rosy Mallik	External Funded Projects	2021-22	SoAS
5	Dr. Prasanta Rath	External Funded Projects	2021-22	SoAS
6	Dr. Rukmini Mishra	External Funded Projects	2021-22	SoAS
7	Dr. Satyanarayana Dhal	External Funded Projects	2021-22	SoAS
8	Dr. G. Pushpalatha	External Funded Projects	2021-22	MSSSoA
9	Dr. Sujata Chakravarty	Patents	2021-22	SoET
10	Dr. Rukmini Mishra	Patents	2021-22	SoAS
11	Dr. G. Pushpalatha	Patents	2021-22	MSSSoA
12	Prof. Ladi Alik Kumar	Patents	2021-22	SoPLS
13	Dr. Yashaswi Nayak	Patents	2021-22	SoAS
14	Dr. Kunja Bihari Satapathy	Patents	2021-22	SoAS
15	Dr. Susanta Kumar Biswal	Patents	2021-22	SoAS
16	Dr. Satyasis Mishra	Patents	2021-22	SoET
17	Dr. Ajay Kumar Prusty	Patents	2021-22	MSSSoA
18	Dr. Harish Chandra Mohanta	Patents	2021-22	SoET
19	Dr. Mohammed Siddique	Patents	2021-22	SoAS
20	Dr. Rukmini Mishra	Patents	2021-22	SoAS
21	Prof. Saubhagyalaxmi Singh	Patents	2021-22	SoAS
22	Dr. Ashish Kumar Sarangi	Patents	2021-22	SoAS
23	Prof. Debashree Debadatta Behera	Patents	2021-22	SoET
24	Dr. Satyasis Mishra	Patents	2021-22	SoET
25	Dr. Ramesh Ch. Mohanty	Patents	2021-22	SoET
26	Dr. Susanta K. Biswal	Patents	2021-22	SoAS
27	Dr. Gagan K Panigrahi	Patents	2021-22	SoAS
28	Dr. Kunja Bihari Satapathy	Patents	2021-22	SoAS
29	Prof. Nimay Chandra Giri	Patents	2021-22	SoET
30	Dr. Anita Patra	Copyright	2021-22	SoM



### Medal of Honour for Patent Publised Details During 2021-22

Sr.No.	Year	Name of Faculty	Medal presented to	School
1	2021	Dr. Ajay Kumar Prusty	Dr. Ajay Kumar Prusty	MSSSoA
2	2021	Mr. Ladi Alik Kumar	Mr. Ladi Alik Kumar	SoPLS
3	2021	Dr. Sunita Satapathy, Dr. Yashaswi Nayak, Prof. Kunja Bihari Satapathy, Dr. Susanta Kumar Biswal & Dr. Satyasis Mishra	Dr. Sunita Satapathy & Team	SoAS
4	2021	Dr. Haris Chandra Mohanta & Dr. Mohammed Siddique	Dr. Haris Chandra Mohanta & Team	SoET
5	2021	Dr. Haris Chandra Mohanta	Dr. Haris Chandra Mohanta	SoET
6	2021	Dr. Mohammed Siddique & Prof. Saubhagyalaxmi Singh	Dr. Mohammed Siddique & Team	SoAS
7	2021	Dr. Rukmini Mishra	Dr. Rukmini Mishra	SoAS
8	2021	Dr. Ashish Kumar Sarangi	Dr. Ashish Kumar Sarangi	SoAS

### Incentive For External Funding for Projects, More than 3 Patent Published during 2020-21 & 2021-22

Sl.No.	Name of Faculty	School	Campus	No. of Patents/ Funding Details	Amount
1	Dr. Satyabrata Nanda	MSSSoA	PKD	External Funding from SERB	5000
2	Dr. Rosy Mallik	SoAS	PKD	External Funding from SERB	5000
3	Dr. Prasanta Rath	SoAS	PKD	External Funding from SERB	5000
4	Dr. Rukmini Mishra	SoAS	BBSR	External Funding from SERB	5000
5	Dr. Satyanarayan Dhal	SoAS	PKD	External Funding from SERB	5000
6	Dr. Pushpalata G.	MSSSoA	PKD	External Funding from SERB	5000
7	Dr. Preetha Bhadra	MSSSoA	PKD	11 Patents Published	5000
8	Dr. Amulyaratna Behera	SoFS	BBSR	5 Patents Published	5000
9	Dr. Sujata Chakravarty	SoET	BBSR	6 Patents Published	5000
10	Dr. Ajay Kumar Prusty	MSSSoA	PKD	5 Patents Published	5000

### Awardees for Exceptional Performance in Production

Sl. No.	Name	Dept.	Campus	Incentive
1	Mr. Ravana Babu	Electrician	PKD	Rs. 5000
2	Mr. Tapan Patnaik	Fitter	PKD	Rs. 5000
3	Mr. Kalidas	Welder	PKD	Rs. 5000
4	Mr. Purushottam Das	elec vehicle, Drone assembly	EEE, BBSR	Rs. 5000
5	Mr. Sanjib Pattnaik	Material testing, NABL works	Mech Engg, BBSR	Rs. 5000
6	Mr. Jugal kishor Behera	Mech Engg & Wood lab	Mech and wood engg, BBSR	Rs. 5000
7	Mr. Jaychandra Mohapatra	Drone work, Automation	PKD	Rs. 5000
8	Mr. Lakshmi Kant Malik	Drone work	PKD	Rs. 5000
9	Mr. Radhagobind Dalai	SoVET, PLC	BBSR	Rs. 5000
10	Mr. Ansuman Nanda	SoVET	BBSR	Rs. 5000
11	Mr. Satya Ranjan Mohanty	CNC, GT	BBSR	Rs. 5000
12	Mr. Sushil Moharana	Carpenter, Wood Engg. Lab	BBSR	Rs. 5000
13	Mr. Ajit Kumar Panda	Welding Lab	BBSR	Rs. 5000
14	Mr. Sandeep Kumar	Project Executive	BBSR	Rs. 5000
15	Mr. Jagan Reddy	Project Executive	BBSR	Rs. 5000
16	Mr. Subrat Kumar Swain	CNC, GT	BBSR	Rs. 5000
17	Mr. M. Sairam	Research Scholar, MSSSoA	PKD	Rs. 5000
18	Mr. M V N Raju	MSSSoA	PKD	Rs. 5000
19	Mr. K C Moharana	Designer	BBSR	Rs. 5000
20	Mr. Paresh Mandal	MRC	BBSR	Rs. 5000
21	Mr. Sarles Bhuyan	MRC	BBSR	Rs. 5000
22	Mr. Pradip Gamango	MRC	PKD	Rs. 5000
23	Mr. Timmy Sabar	MRC	PKD	Rs. 5000
24	Mr. Somanath Nayak	Gardener	BBSR	Rs. 5000

### MANAGEMENT APPRECIATION LETTERS

1	Dr. P K Mohanty	Dean Academics	Academic and Administrative
2	Prof. J Padhi	Director, Bhubaneswar campus	Academic and Administrative
3	Prof. Sadat Ali	Dean, SoVET, Parlakhemundi campus	Academic and Administrative
4	Dr. Durga Prasad Padhi	Director Administration, Parlakhemundi campus	Academic and Administrative
5	Dr. S P Nanda	Dean Admin, MSSSoA	Academic and Administrative
6	Dr. Ashish Ranjan Dash	Associate Dean, SoET, Parlakhemundi campus	Academic and Administrative
7	Dr. Sudhanshu Kumar Samal	Associate Professor, SoET, Parlakhemundi campus	Academic
8	Dr. Sagar Maitree	Professor, MSSSoA	Academic and Administrative
9	Dr. Dinkar Gaikwad	Associate Professor, MSSSoA	Academic and Training
10	Dr. Saurav Barman	Associate Professor, MSSSoA	Academic and Training
11	Dr. Prajna Pani	Professor, SoM, Parlakhemundi campus	Academic and Student Training
12	Dr. Devender Reddy	Dean Academics, MSSSoA	Academic and Administrative
13	Ms. Monalisha Ghosh	Director, International Collaborations	Administrative
14	Dr. Sangram Kesari Swain	Dean Examinations & Dean Student Affair	Academic and Administrative
15	Dr. Atanu Deb	Dean Student Affair	Academic and Administrative
16	Mr. Ranjit Singh	Chief Technical Officer, Parlakhemundi campus	Administrative
17	Mr. Ghanashyam Jena	Admission Officer	Administrative
18	Mr. Phalguna Rao	Head Admission Cell, Parlakhemundi campus	Administrative
19	Mr. Ajay Rout	Director, SoVET	Administrative
20	Mr. Ramesh Sahu	Administrative Officer, Parlakhemundi campus	Administrative
21	Mr. Pradeep Sarangi	Regional Director, Bolangir campus	Administrative
22	Mr. Dhruva Charan Sahoo	Regional Director, Gopalpur campus	Administrative

23	Mr. Rajesh Padhi	Regional Director, Rayagada campus	Administrative
24	Mr. Dipti Dash	Campus Coordinator, Chatrapur campus	Administrative
25	Mr. Anil Patro	Systems Maintenance in Charge	Administrative
26	Mr. Chitta Patnaik	Senior Manager HR, Bhubaneswar campus	Administrative
27	Prof. KVD Prakash	Dean, HRD	Administrative
28	Mr. Rabi Narayan Routray	Director, Sports	Administrative
29	Dr. Jyoti Sayantani	Director, Quality Assurance	Administrative
30	Mr. Jogesh Mishra	Manager, Estate, Bhubaneswar campus	Administrative
31	Mr. Nrusinha Das	System Administrator, Bhubaneswar campus	Administrative

## 10. Collaborations & Networking

During the year the University signed MoUs with 16 institutions within the country and 3 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 Banking Finance & Insurance Institute of Nepal ( BFIN)	For Training, Education, research and consultancy service, information technology
2	MoU with Viswass Group Institutes, Bhubaneswar	Organizing of Health Camps and Clinical pathological laboratory services
3	MoU with Prolife Diagnostics, Bhubaneswar	Training / Faculty Development/internship
4	MoU With Hitachi Vantara University, Trans Neuron Technologies,	For Training & Project
5	MoU with RSB Transmission (I) Ltd. Pune	Project
6	MOU with Ashwini Group of Hospitals	Training Programme
7	MoU Confederation of Indian Industry	Onlice Courses
8	MoU with Springdale Maritime Academy (SAMET Trust),	Student Academic
9	MoU With General Aeronautics & Fly Tech Aviation Ltd	Training and Research
10	MoU with Tirupati Graphene & Mintech Research Centre, Bhubaneswar	Research and Development

11	MoU with Global College International Mid Baneshwor, Kathmandu, Nepal	Research & Education & culture educators and Students from India & Nepal
12	MoU with SRINERGY CLEANTECH PRIVATE LIMITED	Student Skill Development
13	MoU with Telangana Minorities Residential Educational Institutions Society (TMREIS)	Establishment of the laboratory and industrial tie-ups
14	MOU with Entrepreneurship Cell, IIT Kharagpur	Student Education
15	MoU with National Mineral Development Corporation (NMDC)	Skill development programme training Programme
16	MoU with Kathmandu University (KU), Nepal	Joint Degree Programme
17	MoU with ICAR – Indian Institute of Vegetable Research (ICAR-IIVR)	Students Training, Internship/Post Graduate & Ph.D. Research/Scientists Exposure & Involvement
18	Atal Incubation Centre – Jyothy Institute of Technology Foundation (AIC-JITF), Bangalore	Training, product developmen
19	MOU Centurion University with Indian Navy	Indian Navel Students Engagement programm

## 11. Events

### 11.1 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.....



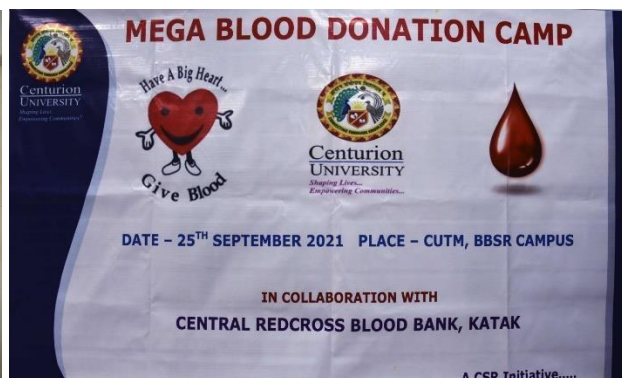
## Sport Activities

- 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.





## 11.2 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	MD Rahman, Assistant Manager.	Genotypic Technology, Bangalore
2	Dr. Santosh Ku. Swain	SUM Hospital, Bhubaneswar
3	Dr. Iswar Chandra Behera	SUM Hospital, Bhubaneswar
4	Priyadhi Mohapatra	Samaj Newspapers
5	Dr. C.V Gopinath	CUTM . A.P. Campus
6	Dr.K. Nagendra	PMSAD
7	Mis. Veena Bhati	Skill University , New Delhi
8	Mis. Ekta Gupta	Skill University , New Delhi
9	P. Sundara Ranjan	Coimbatore
10	S.P Apparels	Coimbatore
11	Dr. Jitendra Ku. Panda, Hospital Superintendent	Hospital Superintendent CHC , Patia
12	Jyotirmayee Chottaray	Sarpanch, Jamukoli G.P
13	Sanjay Shivrami	Hindalco Industries
14	AR Rehman	Glocal University
15	Captain S. P. Patel	Indian Navy
16	Renuprava Nayak, Joint Secretary	SD&TE Department, Govt. of Odisha
17	Dr. Dilleswari Pradhan	Associate Prof. SCB Medical DMET, Bhubaneswar
18	Deepak Prabhu & Manickavelu	Mindtree
19	K.MURALI	KYB Motorcycle Suspension (Chennai)- 631604
20	Y.Padmanabham	M/S Deccan Fine Chem
21	Dr. Pravat Kumar Sarangi	Prof.& Head, Entomology, College of Agriculture, OUAT, Bhubaneswar

22	Dr. Jeetendranath Patnaik	Head, Department of Life Sciences, SKCG Autonomous College, Paralakhemundi
23	Dr. Subadeep Ghosh	ICAR-CMFRI, Visakhapatnam
24	Dr. B.N. Rao	ICAR- IOPR
25	Dr. L.K. Rath	OUAT, Odisha
26	Dr. P.K. Sarangi	OUAT, Odisha

### 11.3 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.

#### Mission

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

#### 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.

## Centurion University of Technology & Management, Odisha



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