

^{gt} ANNUAL REPORT

2020-21

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

Content

Page No.

<i>List of Abbreviations</i>	<i>i</i>
<i>VC's Note</i>	6
1. Overview	7
2. Schools, Departments & Programmes	9
3. Admission	15
4. Placement	17
5. Consulting & Training	20
6. Research, Publications, Seminars & Conferences	22
7. Faculty & Staff Development	31
8. Recognitions	37
9. Collaborations & Networking	40
10. Events	41

List Of Abbreviation

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

OPHC- Odisha Police
Housing Corporation

OPTCL- Odisha Power
Transmission Corporation
Ltd

PGCIL- Power Grid
Corporation of India Ltd

PMKVY- Pradhan Mantri
Kausal Vikas Yojana

REC- Rural
Electrification Corporation

RB- Ratnakar Bank

SoM- School of
Management

SoPAHS- School of
Paramedics & Allied
Health Sciences

SoPLS- School of
Pharmacy & Life Sciences

SoVET- School of
Vocational Education &
Training

SBI- State Bank of India

SoAS- School of Applied
Sciences

SoET- School of
Engineering &
Technology

STADPRO- Structural
Analysis And Designing
Program

SAIL- Steel Authority of
India Ltd

SIET- Shambhunath
Institute of Engineering
and Technology

UMBC- Urban Micro Business
Centre

UNESCO- The United Nations
Educational, Scientific and
Cultural Organization

UGC- University Grants
Commission

VSSUT- Veer Surendra Sai
University of Technology

WISTA- Work Integrated Skill
Training and Apprenticeship

XIMB- Xavier Institute of
Management

YRC- Youth Red Cross



VC's Note



As the Vice Chancellor of Centurion University of Technology & Management (CUTM), Odisha, I am privileged to present the Annual Report, covering the period from April 2020 to March 2021. 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.

Over the years, CUTM has established itself as a leading institution in India, providing direction of skill-integrated and social-entrepreneurship led higher education. It has got the distinction of being recognized as the Institute for Assessment and Certification Body by Ministry of Skill Development and Entrepreneurship, Govt. of India. School of Vocational Education and Training (SoVET) under CUTM Odisha, has been recognised as a Centre of Excellence in the field of Skilling Ecosystem in the Country by Ministry of Skill Development and Entrepreneurship, Govt. of India. It was ranked 18th by Outlook-ICARE India University Rankings 2020.

The University offered 72 Certificate, 14 diploma, 69 undergraduates and 54 postgraduate and doctoral programs through Schools of Agriculture, Applied Sciences, Architecture and Planning, Engineering, Management, Media and Communication, Paramedics and Allied Health Sciences, Pharmacy and Life Sciences and Vocational Education and Training located in four constituent campuses across Odisha, at Paralakhemundi, Bhubaneswar, Rayagada and Bolangir with a student strength of 7882 by end of 2020.

Over the year the University has launched a number of new programs, during the year, the University launched new courses, such as Bachelor in Aviation (with partner GATI) (as a specialization of Mechanical, MBA in Rural and Urban Development Management (with partner COSA), BSc in Anesthesia Technology, BSc Emergency Medical Technology, BSc Operation Theatre Technology, Certified Ophthalmic Surgical Assistance, Certified OT Technician, Certified Dialysis Technician, Certified ECG Technician, Certified Ward Technician, Certified EMG Technician, Certified Blood Collection Technician

It has brought together industry, academia, R&D organisations and community through its teaching, research, training and consulting activities in a collaborative framework to solve the problems individuals and societies face. It has been our privilege to fulfil the social obligation of tackling the current challenges while inspiring curious minds to be proactively prepared for the challenges of tomorrow.

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

Prof. Supriya Pattanayak

1. Overview

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

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

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

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

The University offers 72 certificates, 14 diploma, 69 under-graduate and 54 post-graduate and doctoral programs through schools of agriculture, applied sciences, architecture and planning,

engineering, management, media and communication, paramedics and allied health sciences, pharmacy and life sciences and vocational education and training with a student strength of 7882 as on November 2020.

1.1 New Programmes

- Bachelor in Aviation (with partner GATI) (as a specialization of Mechanical.
- MBA in Rural and Urban Development Management (with partner COSA)
- BSc in Anesthesia Technology
- BSc Emergency Medical Technology
- BSc Operation Theatre Technology
- Certified Ophthalmic Surgical Assistance
- Certified OT Technician
- Certified Dialysis Technician
- Certified ECG Technician
- Certified Ward Technician
- Certified EMG Technician
- Certified Blood Collection Technician



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 1664 students, 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, 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. Presently the School has 1741 students. 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 Paralakhemundi 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 1649 students, 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. It has a total strength of 589 students. 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



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 2020-21 Academic year 2830 number of students were admitted in the university. It includes 444 in Diploma Programmes, 1624 in Bachelor Programmes, 687 in Master Programmes & 75 in Doctoral Programmes. The details are indicated in Table 3.1.

Table 3.1: Admission Mix in Academic Year 2020-21

Programme	Branch	Male	Female	Total
B. Tech.	Agri. Tech	39	13	52
	Civil	20	4	24
	ECE	18	6	24
	EEE/EE	18	2	20
	CSE	266	47	313
	Mechanical	10	0	10
	Phyto	8	0	8
	CSE - AWS	2	0	2
	MI	12	0	12
	Biotechnology	12	16	28
	Aerospace	13	3	16
MBA	MBA	31	23	54
	MBA Data Analytics	2	0	2
	MBA DM	15	8	23
	MBA ABM	2	2	4
	MBA PM	11	0	11
B.Sc.	Chemistry	20	12	32
	Mathematics	8	12	20
	Physics	15	6	21
	Optometry	14	26	40
	Botany	6	4	10
	Information Technology	5	6	11
	Zoology	14	29	43
	Forensic Science	20	17	37
	Aviation	9	3	12
	Radiology	27	22	49
	MLT	15	5	20
	MB	5	26	31
	Operation Theatre Technology	1	0	1
	Emergency Medical Technolog	0	8	8
AT	2	2	4	

M.Sc.	Chemistry	33	42	75
	Mathematic	8	7	15
	Physics	20	23	43
	Medical lab. Technology (MSc MLT)	8	6	14
	Microbiology	9	11	20
	Botany	33	80	113
	Zoology	41	157	198
	Forensic Science	6	25	31
	M. Sc.in Cyber Security & Digital Forensics	10	4	14
M. Tech.	Data Science	3	0	3
	Design and Manufacturing	7	1	8
	Power System and Control	2	0	2
	Structural Engineering	6	0	6
	Transportation Engineering	15	5	20
BBA	BBA	66	42	108
BCA	BCA	8	7	15
B. Pharm.	B.PHARM	179	43	222
D. Pharm.	D.PHARM	127	53	180
MEDIA-BA	MEDIA-BA	8	3	11
Diploma	Civil	36	4	40
	Mechanical	76	2	78
	Electrical	61	2	63
	Computer Science Engineering	39	12	51
	AE	11	0	11
	Mining	21	0	21
MSSSoA	B.Sc. (Ag.)	158	139	297
	B.Sc. (Fish.)	41	12	53
	M.Sc. (Ag.)	19	12	31
B.Com.	Commerce	44	26	70
Ph.D.	Computer Science Engineering	2	0	2
	Civil	1	0	1
	ECE	5	0	5

Physics	7	1	8
Chemistry	3	2	5
Mathematics	1	1	2
Fisheries	1	0	1
Humanities	1	1	2
Botany	0	3	3
Zoology	4	4	8
Biotechnology	0	1	1
Paramedics	0	3	3
Inter Disciplinary	4	6	10
Pharmacy	9	8	17
Management	7	0	7
TOTAL	1780	1050	2830

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 1102 offers from 142 Companies in 2020-21. 85.98% of eligible engineering, 63.19% of eligible agriculture and 50% of eligible management students were placed successfully. Students of the School of Agriculture qualified in Junior Research Fellowship in 2020.

Table 4.1: Students Placed in Different Organisations

Sl. No.	Name of the Company	No of Students Placed
1	UNSCHOOL	52
2	TEKsystems Global Services	3
3	TATA AIA	20
4	MYPERFECTICE	3
5	RK Infosystem	6
6	Bank of Baroda	2
7	PIN CLICK	1
8	Pulsus	1
9	ICRISAT	6
10	JARO EDUCATION	3
11	FIN Pe	6
12	SHRIRAM LIFEINSURANCE	5
13	Wipro	8
14	Hexaware Technologies	2
15	Innostax Software Labs Pvt Ltd	1
16	VAYA Group	3
17	Vinove Software & Services	2
18	Ganga Kaveri Seeds Pvt Ltd	1

19	GTPL	2
20	PULSUS HEALTH TECH LLP	2
21	OMICS International	1
22	Vasudha - Mission Gram Swaraj Project @ BRED	7
23	Kapil Agro Farm India Pvt Ltd	8
24	Cognizant	14
25	Mahindra Agri Solutions Ltd	22
26	Rallis India	4
27	SearchingYard Software Pvt. Ltd	6
28	Employment Express Verband	18
29	TCS	25
30	Extramarks	12
31	Sai Sustainable Agro	5
32	Falcon Feeds	6
33	KALKI AI	1
34	IDBI Life Insurance Co Ltd.	2
35	Steepgraph	3
36	Victory Marvel Seeds India Pvt Ltd	1
37	T & AS Designtech Pvt Ltd.	14
38	BIZZRUN	5
39	NCC Limited	5
40	Hamari Pahchan NGO	2
41	NOBroker	1
42	ACCENTURE	6
43	KYB Motors	30
44	Grip At the Sparks Foundation	1
45	Brdgespan Consultants	1
46	Trade India	1
47	Aries Agro	4
48	VNR SEEDS Pvt Ltd	19
49	Planet Spark	3
50	Flexon Technologies	4
51	Mindfire Solution	1
52	BNP Paribas	1
53	TECH MAHINDRA (NOIDA)	1
54	Dhanuka Agritech	1
55	Fanatisch Marketing Services (P) Ltd	1
56	ICICI Bank	11
57	Squareyards	33
58	PIE Infocomm	18
59	EDWISOR	13
60	OMICS International / PULSUS	25
61	Silicon Techlab Pvt Ltd.	3
62	Rane Group	35
63	Watershed Organisation Trust	5
64	Mediamint	2

65	Nucifera Entertainment Pvt. Ltd	9
66	GRK Research Lab	1
67	CloudEarl	1
68	InMovidu Tech	20
69	Ronch Polymers	30
70	Sumukha Engineering	21
71	Nova Agri Tech Ltd.	4
72	SAK Robotix	7
73	Byjus	1
74	Aabsys IT	2
75	SKH Metals	81
76	Upsquare	5
77	Appinventiv	1
78	AllSec Technologies	50
79	Motherson Automotive	45
80	Laxmi Components & Forging	16
81	Swiflearn	6
82	Faurecia	32
83	Victora Tools	11
84	HCL	13
85	Padpradarshi Foundation	1
86	Gestamp	20
87	Maxgen Technology Pvt Ltd	1
88	Sagarsoft	1
89	Tech Mahindra	10
90	RICO	22
91	Byju's	23
92	India Mart	2
93	Apisero	1
94	Zydus Cadila	8
95	East West Seeds	2
96	Avani Agro Farms and Seeds	4
97	Dial & Deal	1
98	Lido Learning	2
99	Rakuten	1
100	Apollo Pharmacy	56
101	HITECH Hospital	8
102	ASHWINI Hospital	10
103	SUM Hospital	6
104	APOLLO Hospital	6
105	AMRI Hospital	11
106	NIDAN Diagnostic Center	2
107	KALINGA Hospital	2
108	SPARSH Hospital	6
109	GEN X Diagnostic Center	6
110	MAX Diagnostic Center	2

111	SUM Hospital	13
112	BRAHMANAND NARAYANA Hospital	5
113	SPAHS, CUTM	3
114	KIIMS Hospital	1
Total Students Placed		110 2

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. Sixteen Crore Ninety Lakhs Fifty Four Thousand Six Hundred Seventy Three only. In 2020, Centurion University has received research & consultancy projects from Board of Science & Engg., Commissioner of Intermediate Education, Telenga, Nalco Foundation, EMESSAR, Dassault Foundation, Fluent Grid Ltd., OHPC, RD Womens University, University of Western Sydney, Swadesh Foundation, OSC &ST, ORMAS, World Vision India-Disaster Management, Mraket & Markets research Pvt. Ltd, Volva Eicher pvt ltd., NEEM project, WAPCOS

Table 5.1: Details of Training & Consulting Activities Undertaken

Client Organisation	Title of Project	Amount Received (Rs.)
Board Of Science & Engg. Research Board Delhi	Organising Forensic Seminars	75,000
Commissioner Of Intermediate Education, Telenga	Contextualising Vocational Courses As Per Contemporary Skill Demand Industry Need & Employability	14,00,000
Nalco Foundation-Disaster Mgmt		2,00,595
Emmessar	Post Cyclone Fani Restoration	10,000
Bhubaneswar Smart City		40,500
Dassault Foundation	Support For Computer Lab Rehabilitation(FANI)	10,00,000
Fluent Grid Limited	For Equipment -Sheet Bending Machine	5,00,000
Ohpc	Imparting Skill Enhancing Vocational Training Programme For Unemployed And Underprivileged Youth.	46,86,900
RD Womens University	Skill Development Training Programme	25,83,907
Shamali Singh		1,58,341

The Himalaya Drug Company	Post Cyclone FANI Restoration	10,00,000
Univercity Of Western Sydney,Austalia		11,59,377
WAPCOS-Grant In AID		48,753
IED-Grant In AID		4,200
Sponsorship		(25,000)
Grant-In-Aid (WAPCOS)-PKD		19,01,435
Dassault System Foundation-Grant In Aid-PKD		2,94,000
Peter Warren-Grant In Aid-FCRA	From Australia /Post Cyclone FANI Restoration	52,227
Daakin University-Grant In Aid-FCRA	Restoration Work After The Devastation Cause By Cyclone Fani.	75,482
Swadesh Foudnation-Grant In Aid-FCRA		19,926
Wendy Brooks-West Pack Business One-Grant In Aid-FCRA	Wendy Brooks Consulting PTY Ltd. LVL5 267 Collins St Melbourne/Post Fani Cyclone Restoration.	4,74,717
Western District Health Services-Grant In Aid-FCRA	From Australia /Post Cyclone FANI Restoration	4,75,786
Training & Evaluation Income (Osc & St)		1,18,130
Training Income (Fdp)		21,600
Training & Consultancy (Ormas)		6,71,180
Traning Income Of Wrold Vision India- Disaster Management		5,41,115
Traning Income Of Mraket & Markets Research Pvt. Ltd		2,00,984
Traning Income Of Volva Eicher Pvt Ltd.	Skill Development Programme Of Driver Training	5,81,312
Traning Income Of Ve Commercial Vehicle Limited		2,40,400
Traning Income Of NEEM Project		15,05,43,806

One of the key objectives of the University is empowering communities. Accordingly, a number of extension and community outreach activities have been undertaken during the year 2020-21 (Farmer Mela, Unnat Bharat Abhiyan, Model Village Program and NSDC Trainings)

6. Research Projects, Publications, Seminars & Conferences

Research & Publications are important activities of the University. The University encourages its Faculty and Students to undertake context specific research for solving real life problems faced by organisations and communities. During the Year University filed 27 patents and 7 Copyright.

During the year, 2933 number of journal articles published some of these include.

6.1. List of Publications

Sl.No.	Title of paper	Name of the author/s	Department of the Department	Name of journal	Year of publication	ISSN number
1	In silico analysis of mechanical properties of poly vinyl alcohol and Poly ethyl Urethane composite	S. Naik and Subhrraraj Panda	Physics	Indian Journal of Natural Sciences	2020	0976-0997
2	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Polyoxyethylene Composite	Asha Rani Dalai and Subhrraraj Panda	Physics	Indian Journal of Natural Sciences	2020	0976-0997
3	In silico Analysis of Mechanical Properties of Acrylic Acid and Acrylonitrile Composite	Jayakishan Meher and Subhrraraj Panda	Physics	Indian Journal of Natural Sciences	2020	0976-0997
4	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Polyoxymethylene Composite	S. Sadangi and Subhrraraj Panda	Physics	Indian Journal of Natural Sciences	2020	0976-0997

5	In silico Analysis of Gas Permeability Properties of Polyacrylic Acid and Polyacrylonitrile Composite”	Sujata Acharya, A.Saraf, N.Nayak	Physics	Indian Journal of Natural Sciences	2020	0976-0997
6	In silico Analysis of Polyvinyl Alcohol and Polyoxyethylene Compatibility in a Blend	Sujata Acharya, A. Saraf, D. Bhattacharyay and Padmaja Patnaik	Physics	Indian Journal of Natural Sciences	2020	0976-0997
7	In silico Analysis of Polyvinyl Alcohol and Polyoxymethylene Compatibility in a Blend	Monalisa Joshi, D. Bhattacharyay and Padmaja Patnaik	Physics	Indian Journal of Natural Sciences	2020	0976-0997
8	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Urea Composite	Monalisa Joshi, Padmaja Patnaik, and D.Bhattacharyay	Physics	Indian Journal of Natural Sciences	2020	0976-0997
9	In silico Analysis of Mechanical Properties of Polyacrylic Acid and Polyacrylochloride Composite	Sanjib Kumar Naik, Padmaja Patnaik, and D.Bhattacharyay	Physics	Indian Journal of Natural Sciences	2020	0976-0997
10	In silico Analysis of Polyvinyl Alcohol and Polyethyl Urethane Compatibility in a Blend	Rashmi Ranjan Bag, Sourav Kumar Bishi, M.K. Sahu, S.K. Satpathy and D. Bhattacharyay	Physics	Indian Journal of Natural Sciences	2020	0976-0997
11	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Polyoxyethylene Composite	Bibhuti Bhusan Sahu, S.K. Satpathy, D. Bhattacharyay	Physics	Indian Journal of Natural Sciences	2020	0976-0997

12	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Polyethylurethane Composite	Jayakishan Meher, S. Behera, D. Bhattacharyay	Physics	Indian Journal of Natural Sciences	2020	0976-0997
13	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Polyurea Composite	S.Sadangi, S. Behera and D. Bhattacharyay	Physics	Indian Journal of Natural Sciences	2020	0976-0997
14	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Polyethyl Urethane Composite	Jagruti Meher, Roji Hota, Sasmita Kumari Pradhan, D.Bhattacharyay, Subrata Sarangi*	Physics	Indian Journal of Natural Sciences	2020	0976-0997
15	In silico analysis of Gas Permeability Properties of Polyvinyl Alcohol and Polyoxymethylene Composite	Alisha Rath ,Asha Rani Dalai, Tapan Dash, D.Bhattacharyay	Physics	Indian Journal of Natural Sciences	2020	0976-0997
16	In silico Analysis of Thermal and Dielectric Properties of Polyacrylic Acid and Polyacrylonitrile Composite	Bibhuti Bhusan Sahu, Tapan Dash, D. Bhattacharyay	Physics	Indian Journal of Natural Sciences	2020	0976-0997
17	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Polyvinylchloride Composite	Yogabramha Bhoi, S. Nayak, Pratap K. Chhotaray, D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997

18	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Poly- 1,2- α -D-Glucose	Usharani Padhan, S. Nayak, Pratap K. Chhotaray, D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
19	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Polyvinylchloride Composite	Gagan Mandika, S. Nayak, Pratap K. Chhotaray, D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
20	In silico Analysis of Gas Permeability Properties of Poly (Biphenyl Dimethyl Carbonate) and Polyether Sulfone (PES) Blend Membrane	Subhashree Padhi, S. Nayak, S. Sahu, D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
21	In silico Analysis of Gas Permeability Properties of Poly biphenyl dimethyl Carbonate and Poly dimethyl siloxane (PDMS) Composite	Soujanya Yeddu, S. Nayak, S. Sahu, D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
22	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and poly-1, 2- α -D-Galactose Composite	R Anusya, S. Sahu, G.K.Mahato and D. Bhattacharyay	Mathematics	Indian Journal of Natural Sciences	2020	0976-0997
23	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Poly-1, 2- α -D-Glucose Composite	Khagapati Sahu, S. Nayak, A. K. Sahoo and D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997

24	In silico Analysis of Polyvinyl Alcohol and Polyvinyl Chloride Compatibility in a Blend	Sourav Pujhari, S. Nayak, A.K.Sahoo and D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
25	In silico Analysis of Polyacrylic Acid and Polyurea Compatibility in a Blend	Sujit Karuan, S. Nayak, A.K.Sahoo and D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
26	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Polyvinyl Chloride Composite	Biswajit Padhan, S. Nayak, G.K.Mahato, D. Bhattacharyay	Mathematics	Indian Journal of Natural Sciences	2020	0976-0997
27	In silico Blend Compatibility Investigation of Poly (Biphenyl Dimethyl Carbonate) and Poly (Ether Sulfone)”	Ch Usha, S. Nayak, Mohammed Siddique and D. Bhattacharyay	Mathematics	Indian Journal of Natural Sciences	2020	0976-0997
28	In silico Analysis of Polyvinyl Alcohol Acid and Poly-1, 2- α -D-Glucose Compatibility in a Blend	Preeti Kumari Batlabhadra, S. Nayak, G.K.Mahato and D. Bhattacharyay	Mathematics	Indian Journal of Natural Sciences	2020	0976-0997
29	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Poly-1, 2- α -D-Glucose Composite	Chandan Saraf, S.Nayak, Mohammed Siddique, C.R.Routray and D.Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
30	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Poly-1, 2- α -D-Galactose Composite	Hemanta Rana, Mohammed Siddique, C.R.Routray and D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997

31	In silico Analysis of Polyvinyl Alcohol Acid and Poly-1, 2- α -D-Galactose Compatibility in a Blend	Alok Budhia, Mohammed Siddique, S. K. Sahoo and D. Bhattacharyay	Mathematics	Indian Journal of Natural Sciences	2020	0976-0997
32	In silico Blend Compatibility Investigation of Poly (Biphenyl Dimethyl Carbonate) and Polydimethylsiloxane	Rasmita Sahoo, S. Nayak, Mohammed Siddique, S. K. Sahoo and D. Bhattacharyay	Mathematics	Indian Journal of Natural Sciences	2020	0976-0997
33	In silico Analysis of Polyacrylic Acid and Poly-1,3- α -D-Galactose Compatibility in a Blend	Ashutosh Naik, Mohammed Siddique, S. K. Sahoo and D. Bhattacharyay	Mathematics	Indian Journal of Natural Sciences	2020	0976-0997
34	In silico Analysis of Thermal and Dielectric Properties of Polyacrylic Acid and Polyacrylochloride Composite	S. Nayak, Mohammed Siddique and D. Bhattacharyay	Mathematics	Indian Journal of Natural Sciences	2020	0976-0997
35	In silico Analysis of Gas Permeability Properties of Polyacrylic Acid and Polyurea Composite	Ranjan Kumar Padhan, S.Nayak, D.Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
36	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Polyethersulfone Composite”	Nimroj Khosla, S.Nayak, D.Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997

37	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Polyethersulfone Composite	Archana Sahu, S.Nayak, D.Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
38	In silico Analysis of Mechanical Properties of Polyacrylic Acid and Polyurea Composite	Subhalaxmi Kuanr, S.Nayak, D.Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
39	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Polyethersulfone Composite	T Jaganatha Patro, S.Nayak, D.Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
40	In silico Analysis of Thermal and Dielectric Properties of Polyacrylic Acid and Polyurea Composite	Kartik Prasad Rajguru, S.Nayak, D.Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
41	In silico Analysis of Polyvinyl Alcohol and Poly Ethylene Terephthalate Compatibility in Blend	Biswaranjan Mishra, S. Nayak and D.Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
42	In silico Analysis of Polyacrylic Acid and Poly (Biphenyl Dimethyl Carbonate) Compatibility in a Blend	Lohita Karuan, S. Nayak, D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
43	In silico Analysis of Polyvinyl Alcohol Acid and Polybenzamide Compatibility in a Blend	Truptimayee Behera, S. Nayak and D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997

44	In silico Analysis of Polyvinyl Alcohol Acid and Polybutylene Isophthalate Compatibility in a Blend	Sangram Keshari Biswal and D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
45	In silico Analysis of Polyvinyl Alcohol acid and Poly (Ether Sulfone) Compatibility in a Blend	Baibhab Kumar Patra, S. Nayak and D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
46	In silico Analysis of Polyacrylic Acid and Poly Oxyethylene Comptibility in A Blend	Keshaba Karuan, S. Nayak and D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
47	In silico Analysis of Polyacrylic Acid and Poly-1,2- α -D-Galactose Compatibility in a Blend”	Anisetti Siva sankar, S. Nayak, D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
48	In silico Analysis of Polyacrylic Acid and Poly-1,2- β -D-Galactose Compatibility in a Blend	Lipan Kumar Nayak, S. Nayak, D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
49	In silico Analysis of Polyvinyl Alcohol and Poly (Biphenyl Dimethyl Carbonate) Compatibility in a Blend	Manoranjan Badajena , Sangam keshari Biswal, D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
50	In silico Analysis of Gas Permeability Properties of Polyvinyl Alcohol and Poly Butylene Isophthalate Composite	Sangram Keshari Biswal, D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997

51	In silico Analysis of Thermal and Dielectric Properties of Polyvinyl Alcohol and Poly (Butylene Isophthalate) Composite	Sangram Keshari Biswal, D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997
52	In silico Analysis of Mechanical Properties of Polyvinyl Alcohol and Poly Butylenes Isophthalate Composite	Sangram Keshari Biswal, S. Nayak and D. Bhattacharyay	Chemistry	Indian Journal of Natural Sciences	2020	0976-0997

6.2. Workshop and Conference

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

Table 6.2: Details of Seminars, Workshops & Conferences Organised in 2020-21

Sl. No.	Topic
1.	National Conference on "Biotechnological approaches towards crop improvement" by School of Applied Science, Bhubaneswar Campus.
2.	National Conference on Nano Technology for Smart Materials by School of Applied Science, Bhubaneswar Campus.
3.	International Multidisciplinary E-Conference "Recent Advances in Applied Science" by School of Applied Science, Bhubaneswar Campus.
4	International E-Conference " Recent Advances in Biological Science" by School of Applied Science, Bhubaneswar Campus.
5	International Conference" Recent Advances on Emerging Materials, by School of Applied Science, Bhubaneswar Campus.
6	International Conference" Recent Advances on Applied Physics , by School of Applied Science, Bhubaneswar Campus.
7	National Virtual Conference on Challenges and Opportunities in Applied Zoology by School of Applied Science, Bhubaneswar Campus.
8	National Conference on Recent Trends in Bio-Sciences by School of Applied Science, Bhubaneswar Campus
9	Workshop for Verifying Indexed Journals by Mechanical Engineering Department, Bhubaneswar Campus
10	Workshop Social Network Analysis by School of Agriculture Science, Paralakhemundi Campus

7. Faculty & Staff Development Programmes

The Faculty and Staff are the most important resource of the University. As on November 2020 the faculty strength includes 152 in Paralakhemundi campus, 123 in Bhubaneswar campus, 26 in Rayagada campus and 28 in Bolangir campus. To improve the faculty resource in line with the needs of the internal and external environment, the University recruit's new faculty and staff and upgrades their competencies on a continuous basis. During the year Faculty Development Programmes were organised in-house for enhancing domain knowledge, teaching learning skill and competencies in engaging with community. The details are presented in Table 7.1. Faculty and Staff are sponsored to participate in programs outside the university, in areas that are not covered in-house.

Table 7.1: Details of In-house Faculty Development Programmes (2020-21)

Sl. No.	FDP Title	Dates delivered	No of training days	Resource person Name
1	Workshop on Block Chain	6th to 9th-Jan-20	4	Dr. Nagesh Kolagani
2	SDP on How to write a Proposal	7th-Jan-20	1	Dr. Dipankar Bhattacharyay
3	Machine Learning - Cat Swarm Optimization Technique (CSO)	7th-Jan-20	1	Prof. Ganapati Panda
4	Micro Teaching	9th to 10th-Jan-20	2	Dr. Bijay Bhujwal
5	MATLAB for Machine Learning	9th-Jan-20	2 hrs	Dr. R.C. Mohanty
6	Machine Learning - Multi Objective GA (NSGA2)	11th-Jan-20	2 hrs	Prof. Ganapati Panda
7	MATLAB for Machine Learning - Creating Vectors & Arayas	14th-Jan-20	2 hrs	Dr. R.C. Mohanty
8	MATLAB for Machine Learning - Mathematical Operations with Arrays	15th-Jan-20	2 hrs	Dr. R.C. Mohanty
9	MATLAB for Machine Learning - Programming using Script file	16th-Jan-20	2 hrs	Dr. R.C. Mohanty
10	Machine Learning - Least Mean Square Algorithm (LMS)	17th-Jan-20	2 hrs	Prof. Ganapati Panda
11	Mechanistic Organic Chemistry	17th&18th-Jan-20	2	Prof. Satyaban Jena
12	Machine Learning - Variants of LSM & RLS	18th-Jan-20	2 hrs	Prof. Ganapati Panda
13	MATLAB Programming Using Script File	21st-Jan-20	1	Dr. R.C. Mohanty
14	Animated Spreadsheets to Enhance Learning	23rd-Jan-20	1	Dr. Sarmistha Sahu Dr. R P Sahu

15	MATLAB Graphics (2D plotting)	23rd-Jan-20	2 hrs	Dr. R.C. Mohanty
16	MATLAB Graphics (2D plotting)	24th-Jan-20	2 hrs	Dr. R.C. Mohanty
17	Machine Learning - Bacterial Foraging Algorithm	25th-Jan-20	2 hrs	Prof. Ganapati Panda
18	Change Management towards Creativity & Excellence	27th-Jan-20	1	Mr. Himanshu Bhatt
19	Machine Learning - Differential Evolution Optimization (DEO)	28th-Jan-20	2 hrs	Prof. Ganapati Panda
20	Positive Classroom Behavior and Classroom Management	28th-Jan-20	1	Dr. Kalpana Sahoo
21	Skill in Knowledge	29th-Jan-20	1	Dr. Prafulla Kumar Mohanty
22	Basic Machine Learning Strategy Applied to Research Problems	31st-Jan-20	2 hrs	Prof. Ganapati Panda
23	MATLAB for Machine Learning - Polynomials and curve fitting	1st-Feb-20	2 hrs	Dr. R.C. Mohanty
24	GMP and cGMP Considerations in Pharmaceutical Industry	3rd-Feb-20	1	Prof. Devaraj Biswal
25	MATLAB for Machine Learning - Control Structure (Conditional Statements)	5th-Feb-20	2 hrs	Dr. Sujata Chakravarty
26	MATLAB for Machine Learning - Conditional Statements (Looping)	11th-Feb-20	2 hrs	Dr. Sujata Chakravarty
27	MATLAB for Machine Learning - Conditional Statements (Looping)	15th-Feb-20	2 hrs	Dr. R.C. Mohanty
28	Machine Learning - Introduction to Convolution Neural Networks (CNN)	20th-Feb-20	2 hrs	Prof. Ganapati Panda
29	MATLAB for Machine Learning Introduction to Convolution Neural Networks (CNN)	22th-Feb-20	2 hrs	Dr. R.C. Mohanty
30	Machine Learning	28th-29th Feb 20	2	Prof. Ganapati Panda
31	Ethics	9th-Mar-20	3 hrs	Dr. Supriya Pattanayak
32	FACT 2 - Machine Learning	16th-Mar-20 to 12th-Apr-20	12	Mr. Mukti Patra and team
33	FACT 1 - Python	1st to 25th - Apr-20	25	Prof. Nagesh Kolgani, Prof. Ramana

34	FACT 3 - Biovia	1st to 24th - Apr-2020	20hrs	Dr. Dipankar Bhattacharyay
35	FACT 3 - Biovia	10th Apr-2020	12 hrs	Dr. Dipankar Bhattacharyay
36	FACT 3 - Biovia	11th Apr-2020	12 hrs	Dr. Dipankar Bhattacharyay
37	Web development using Wordpress	27th to 28th Apr - 2020	8hrs	Prof. K.V.Kalyan Chakravarthy
38	Computational Biology	29th-Apr-20	2hrs	Dr. Somasekhar Dhavala, Embibe, Bengaluru, Founder - mlsqaure.org, VitalTicks Ltd Visiting faculty - PES University
39	Making of Android App	30th Apr-1st May 2020	2hrs	Prof. S.B.Maharana
40	Dash Board Development	1st May	2hrs	Mr. Vijay & Mr. Dhiren, iCloudEMS
41	AI, Robotics & Simulation for Aerospace & Defense Applications	2nd May 2020	2hrs	Ajith Balakumar, Forthcode Technologies
42	Workshop on Library Resources	4th May 2020	1hrs	Sunil Biswal & Ashutosh Padhi
43	Robotics	4th May 2020	2hrs	Sakhyasingh Mahapatra, MD, Sakrobotix Lab
44	Dymola and Apriso	5th May 2020	2hrs	Dr. Arun Manohar, Prof. Rakesh Ray, Prof. Sudhanshu Samal
45	Material Studio_Biovia	6th May 2020	2hrs	Dr. Dipankar Bhattacharyay & Mrs. Siplalin Nayak
46	Simulia	7th May 2020	2hrs	Dassault
47	Block-Chain	8th May 2020	2hrs	Validlog
48	Infographics & Hyperspectral Analysis	9th May 2020	2hrs	Dr. Anita Patra & Dr. Amiya Singh
49	Multipsectral /Hyperspectral Analysis	11th May 2020	2hrs	Dr. R.N.Sahu, IARI, New Delhi
50	IPR_NRDC	12th May 2020	2hrs	Dr. B K Sahu, NRDC
51	Nutraceuticals	13th May 2020	2hrs	Dr. Amit Sreevastav, Nutfify India
52	Simulia, Smart Bim	14th May 2020	2hrs	Mr. Anand ,Mr. Dinesh, Mr. Nitish
53	Generative Apps	15th May 2020	2hrs	Raj Kumar
54	BIO MATERIALS	18th May 2020	2hrs	Dr Kingshuk Poddar

55	FDP on 3D Additive Manufacturing	19th May 2020	2hrs	Dr. U. Chandrashekhar of WIPRO
56	Geovia and Presentations use AWS	20th May 2020	2hrs	Mr. Dinesh, GTM Team
57	Workshop for Verifying Indexed Journals	21st May 2020	2hrs	Dr. R. C. Mohanty
58	Laser Additive Manufacturing	22nd May 2020	2hrs	Prof. C.P.Paul, RRCAT, Indore
59	Course outlines	25th May 2020	2hrs	Prof. D.N.Rao
60	Creating Web based course outlines	26th May 2020	2hrs	Dr. P.K.Mohanty & Codetantra
61	World Skills	27th May 2020	2hrs	Dr. Amiya Singh & Team
62	Course Outlines	28th May 2020	2hrs	Prof. D.N.Rao
63	FDP with Phil Burgess	29th May 2020	2hrs	Dr. Phil Burgess, CEO, Giant Corporations
64	NLP(Natural Language Processing)	30th May 2020	2hrs	Prof. S.B.Maharana, Prof. K.Santosh Rao, Prof. A.Avinash
65	ARVR & NPL	1st June 2020	2hrs	Mr. Goutam Maity
66	Nano Materials And Others	3rd June 2020	2hrs	Dr Rukmini Mishra
67	John Toohey	4th June 2020	2hrs	Dr John Toohey
68	Plant based drug discovery & Converting a course into source of publication	5th June 2020	2hrs	Dr. Amiya Singh
69	Unity - Enforcing Real time	6th June 2020	2hrs	Mr. Aritran Mukharjee
70	Development of Matching Implements to Mini Tractor (15hp) for the benefit of Small and Marginal Farmers in India	10th June 2020	1hrs	Dr. Joseph Reddy, Principal Scientist (Agril Engg. in Farm Machinery), RARS, ANGRAU (AP)
71	Exploring Strategy for doubling farmers' income	10th June 2020	1hrs	Dr. Kausik Pradhan
72	FDP on JAVA	11th June 2020	2hrs	Mr. Debendra Moharana
73	ROS Training	8th to 11th June 2020		Prof. Gautam Modak
74	Introduction to Digital Painting	12th June 2020	2hrs	Ms. Bhavya Kirti
75	Metabolic engineering of high value nutraceuticals and bioactive compounds	13th June 2020	2hrs	Dr. Sangram Lenka, TERI-Deakin Nanobiotechnology Centre, The Energy and Resources Institute, Haryana

76	FDP on JAVA	14th June 2020	2hrs	Mr. Debendra Moharana
77	Vanilla Cultivation	16th June 2020	2hrs	Mr. David Soo
78	Coursera	17th June 2020	2hrs	Mr. Shaurya Pratap Singh
79	Protected cultivation	19th June 2020	2hrs	Dr. K V Raman Rao, SERB
80	Bio process techniques & down stream of targeted metabolites	20th June 2020	2hrs	Dr. Subaj Sahoo, Prof. Utkal University
8	Social Network Analysis	23rd June 2020	2hrs	Dr. Atanu Deb and Prof. D N Rao
82	Development of Transgenic in Rice_Nano materials	29th June 2020	2hrs	Dr. Ranjan Sahoo, Dr. Deepak Sahu and Dr. Shraban Sahu
83	Material Testing & Characterization LAB_ Amendments of FPOs	30th June 2020	2hrs	Dr. A M Mohanty, Mr. Pratap, Dr. Durga Padhi, Dr. Girija Nandini & Mr. Ramakrishna Raju
84	Machining Facilities, Hydrophobic Nanomaterials	1st July 2020	2hrs	Prof. Sadat Ali, Dr. Satyanarayan Dhal
85	MECHEM COMPOSITES	2nd July 2020	2hrs	Mr. J K Rath
86	Biofertilizer Biotechnology Tissue Culture	3rd July 2020	2hrs	Dr. Pushpalata, Dr. Praveen
87	Table Top Accelerator	4th July 2020	1hrs	Dr. Prasanta Rath
88	Biodiesel	4th July 2020	1hrs	Dr. Narayan Gouda
89	GTF work	6th July 2020	2hrs	Shashi
90	Agriculture	7th July 2020	2hrs	Sun Moksha, ITC, IFFCO , Dr Sahoo of IARI, Dr Ramana Rao and Abhishek of General Aeronautics
91	Agriculture Engineering	8th July 2020	2hrs	Dr Sivala Kumar
92	Research Presentation	9th July 2020	2hrs	
93	Global status of Fisheries and aquaculture vis-a-vis India's potential and challenges	10th July 2020	2hrs	Dr .M.V.Gupta, an eminent Fisheries Scientist
94	Adobe spark tools, Doodly tools	13th July 2020	2hrs	Dr. Amiya Singh, Mr. Abhi Mitra, Dr. Padmaja Patnaik
95	ROS	14th July 2020	2hrs	Md. Debaraj Rana and Ms. Jeevaratnam
96	Orientation to Gaming Solution	15th July 2020	2hrs	Ansuman Dalai
97	German varsity	16th July 2020	2hrs	Mr. Raj
98	What a Brand gives	17th July 2020	2hrs	Prof. Govindarajan

99	Resilient Leadership: Ensuring future readiness by exploring new opportunities during this time of Uncertainty	18th July 2020	2hrs	Mr. Damodaran Subramaniam, Managing Director, Safran Engineering Services
100	Discussion on course resistration and implimentation	20th July 2020	2hrs	Prof. K V Kalyan
101	E lab note_Doodly_Adobespark	21th July 2020	2hrs	Prof. K V Kalyan
102	IIT Gn - 2018	22th July 2020	2hrs	
103	How to do effecive teaching	23th July 2020	2hrs	Prof. Govindarajan
104	How to use the E Lab record	24th July 2020	2hrs	Prof. S B Moharan & Team
105	Discussuion	25th July 2020	2hrs	Dr. Trilochan Mohapatra, DG ICAR
106	Job Readiness training	30th July 2020	2hrs	T & P cell
107	Skin manifestation of COVID 19' by a doctor	1st Aug 2020	2hrs	Dr. Kumar Abhishek
108	Genomic approaches for bacterial blight management in commercial crops	3rd Aug 2020	2hrs	Dr. PV Parvati Sai Arun
109	Reduction of Wing Tip Vortex by using Active and Passive Techniques	5-Aug	2hrs	Dr. Sangram Samal, Mr. Nilamadhab Das and Mr. Debasis Sahu
110	Image Processing to Computer Vision	10-Aug	2hrs	Dr. Jharana Majumdar
111	Image Processing to Computer Vision	11-Aug	2hrs	Dr. Jharana Majumdar
112	Video Processing	13-Aug	2hrs	Dr. Jharana Majumdar
113	CFD	17-Aug	2hrs	Dr. Sekhar Majumdar
114	Turbulence Fluid Dynamics	18-Aug	2hrs	Dr. Shekhar Majumdar
115	Blockchain	21-Aug	2hrs	Siddharth & Rohan
116	Video Image Processing	25-Aug	2hrs	Dr. Jharana Majumdar
117	Coal Briquettes from Agriculture Waste	26-Aug	2hrs	Mr. Mangesh Desai
118	Review of content developed by faculty using Doodly and Adobe Spark	27-Aug	2hrs	CUTM & CPS
119	Educational Technology: Challenges and Opportunities	31-Aug	2hrs	Mrs. Chinu Bohidar

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

8. Recognitions & Achievements

Ph.D. Awarded

- Kunjabihari Swain in ECE, “*Wide Area Situational Awareness Assessment Using Phasor Measurement Units*” under the guidance of Dr. S.K.Mandal.
- Badrinarayana Mohapatra in ECE, “*Analysis Of Different Indoor Illumination Methods Using Daylight*”
- Sudeshna Dutta in Management, “*Evaluating Service Quality with Customer Satisfaction - A Study Of Private Sector Banks In Bhubaneswar*” under the guidance of Dr. Muktikanta Mishra.
- Suchismita Mohanty in Physics “*Preparation_And_Characterization_Of_Graphene-Based Polymer Composites for Improvement in Structural, Mechanical and Electrical Properties*” under the guidance of Dr. Subrat Sarangi.
- Adarsh Rath in Management “*Performance Management System in Ngos: A Case Study in Harsha Trust*” under the guidance of Dr. Haribandhu Panda.
- Madhusmita Choudhury in Management “*Brand Evangelism and Customer Satisfaction of Car Purchase*” under the guidance of Dr. P. K. Mohanty.
- Shiv Sankar Das in Management “*Diffusion of Clean Energy Products in Rural Areas of India: Case Study*” under the guidance of Dr. Haribandhu Panda.
- Vade Venkata Suresh in Mechanical “*Development of Mechanical Vibration System to Influence the Metallurgical and Mechanical Properties of Mild Steel 1018 Welded Joints*” under the guidance of Dr. P.S. Rao.

Session Chaired, Talk Delivered

- Session Chaired by Dr. Tapan Dash in the International Multidisciplinary E-Conference “Recent Advances in Applied Science”: Centurion University of Technology and Management, 27th to 28th January 2021.
- Session Chaired by Dr. J.P.Rath and Dr. S. Bhattachryya International E-Conference “Recent Advances in Biological Science” Centurion University of Technology and Management, 27th December 2020.
- Session Chaired by Dr. Atia Arzoo International Conference” Recent Advances on Emerging Materials Centurion University of Technology and Management, 23rd December 2020.
- Session Chaired by Dr. Tapan Dash in the International Conference” Recent Advances on Applied Physics: Centurion University of Technology and Management, 4th August 2020
- Session Chaired Dr. Yashaswi Nayak National Virtual Conference on Challenges and Opportunities in Applied Zoology Centurion University of Technology and Management, 8th August 2020.
- Session Chaired Dr. Gagan Kumar Panigrahu National Conference on Recent Trends in Bio-Sciences Centurion University of Technology and Management, 6th March 2021
- Session Chaired Dr. Rukmini Mishra National Conference on "Biotechnological approaches towards crop improvement" Centurion University of Technology and Management, 4th July 2020.

- Session Chaired Dr. S.Behera National Conference on Nano Technology for Smart Materials Centurion University of Technology and Management, 31st July 2020.

Faculty & Staff Performance Awards 2021

Congratulations to the Awardees !!!

Provost Research Faculty Awards 2021:

PROVOST RESEARCH AWARDS -2021		
AWARD	NAME OF THE FACULTY	DEPARTMENT/SCHOOL
EMINENT ACHIEVER AWARD	Ms. Preetha Bhadra	MSSSoA
	Dr. Rukmini Mishra	MSSSoA
	Dr. Pradipta Banerjee	MSSSoA
	Ms. Swarnaprabha Jena	ECE/SoET
	Dr. Madhumita Das	SoM
DISTINGUISHED ACHIEVER AWARD	Dr. Atanu Deb	MSSSoA
	Dr. Dojalisa Sahu	Chemistry/SoAS
ABDUL KALAM CHAIR PROFESSOR	Dr. Sujata Chakravarty	CSE/SoET
	Dr. P S Rao	ME/SoET

Faculty & Staff Performance Awards 2021:

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

Sl. No.	Name of the Faculty	Category	Year	School
1	Dr. Anita Patra	Copyright	2020-21	SoM
2	Dr. Prajna Pani	Copyright	2020-21	SoM
3	Prof. D.N. Rao	Copyright	2020-21	SoM
4	Dr. Preetha Bhadra	Patents	2020-21	MSSSoA
5	Prof. Nimay Chandra Giri	Patents	2020-21	SoET
6	Prof. Suman Kumar Sudhanshu	Patents	2020-21	SoMS
7	Dr. Atanu Deb	Patents	2020-21	MSSSoA
8	Dr. G. Arun Manohar	Patents	2020-21	SoET
9	Prof. Chinmay Chidananda Behera	Patents	2020-21	SoPLS
10	Dr. Amulyaratna Behera	Patents	2020-21	SoPLS

Medal of Honour for Patent Publised Details During 2020-21

Sr.No.	Year	Name of Faculty	Medal presented to	School
1	2020	Dr. Preetha Bhadra	Dr. Preetha Bhadra	MSSSoA
2	2020	Dr. Preetha Bhadra & Dr. Atanu Deb	Dr. Preetha Bhadra & Team	MSSSoA
3	2020	Dr. Nimay Chandra Giri, Dr. Ramesh Chandra Mohanty & Prof. Jagannath Padhi	Dr. Nimay Chandra Giri & Team	SoET
4	2020	Mr. Suman Kumar Sudhanshu	Mr. Suman Kumar Sudhanshu	CUTM
5	2020	Mr. N. Laxmidhar Reddy, Pritam Das & Jyoti Lal Lodhi	Mr. N. Laxmidhar Reddy & Team	GTET

6	2020	Dr. G. Arun Monohar & Dr. D. Nageswara Rao	Dr. Arun Manohar & Team	SoET
7	2020	Dr. Amulyaratna Behera, Prof. Chinmay Chidananda Behera, Dr. Priyanka Das, Prof. Suchismita Behera, Prof. Suman Kumar Mekap & Dr. Gurudutt Pattnaik	Dr. Amulyaratna Behera & Team	SoFS
8	2020	Dr. Sujata Chakravarty	Dr. Sujata Chakravarty	SoET
9	2020	Dr. Sujata Chakravarty , Dr. Satyabrata Dash, Dr. Hemraj Saini, Prof. Swarnaprabha Jena , Prof. Subrat Kumar Pradhan , Prof. Barada Prasad Panigrahy, Dr. Subash Chandra Nath, Dr. Susanta Kumar Rout & Dr. Geetanjali Rathee	Dr. Sujata Chakravarty & Team	SoET

9. Collaborations & Networking

During the year the University signed MoUs with 11 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 Shankaranarayana Life Sciences Llp, Bengaluru (Sn Life Sciences)	Encourage and facilitate co-operation in the fields of Biotechnology, Agriculture, Ag Engg., Microbiology and Food Sciences
2	Mou With Paygate India Private Limited	Software
3	MoU With Centurion University - IFFCO Kisan , New - Delhi	Research & Development
4	MoU with Skyline University Nigeria (SUN), Nigeria	Academic Collaboration Faculty & Student Exchange Programme
5	MoU_Cognitive DLP_CUTM	Student's Employability
6	MoU with Wipro	Project
7	CUTM Nutrify India MOU, Mednutra Pvt. Ltd.	Project
8	MoU with Sunmoksha Power Pvt. Ltd	Research Project
9	MoU With Trilochan Netralaya , Budharaja, Sambalpur	Student's Employability

10	MoU With UP Education & iQuery Australia	Student's Higher Education
11	MoU with Singapore Campus of James Cook University	Student's Higher Education
12	MoU with Vraddhi Organic Agro India Pvt. Ltd., Mathura (UP)	Student's Higher Education
13	Mou with Catosoft Technologies Pvt Ltd	For internships & placements with the company clients
14	Mou With Gajju Technologies Private Ltd.	Students Loan Purpose

10.Events

10.1 CSR Activities

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

Cultural Activities

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



Sport Activities

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



ଭୁବନେଶ୍ୱର ଅକ୍ଟୋବର କ୍ରିକେଟ୍ ଫାଉଣ୍ଡେସନ୍ ପ୍ରତିଷ୍ଠା-ଟାଇମ୍ କ୍ଲବ୍



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



10.2 Distinguished Visitors

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

Table 10.2: Distinguished visitors

Sl. No	Name of Visitors	From
1	Dr. Somasekhar Dhavala	Embibe, Bengaluru, Founder - mlsqaure.org, VitalTicks Ltd Visiting faculty - PES University
2	Prof. C.P.Paul	RRCAT, Indore

3	Dr. Somasekhar Dhavala	Embibe, Bengaluru, Founder - mlsqaure.org
4	Mr. Ajith Balakumar	Forthcode Technologies
5	Dr. B K Sahu	National Research Development Corporation
6	Dr. Amit Sreevastav	Nutrify India
7	Dr. Joseph Reddy	Principal Scientist (Agril Engg. in Farm Machinery), RARS, ANGRAU (AP)
8	Dr. Sangram Lenka	TERI-Deakin Nanobiotechnology Centre, The Energy and Resources Institute, Haryana
9	Dr. Subaj Sahoo	Professor Utkal University
10	Dr .M.V.Gupta	an eminent Fisheries Scientist
11	Mr. Damodaran Subramaniam	Managing Director, Safran Engineering Services
12	Sakhyasingh Mahapatra	MD, Sakrobotix Lab
13	Dr. Phil Burgess	CEO, Giant Corporations
14	Dr. Trilochan Mohapatra	DG ICAR
15	Prof. Usha Bajpai	Retired Professor, Dept. of Physics & CEREER, University of Lucknow, U.P.
16	Dr. Manas Ranjan Kar	M & E Specialist, PPOMU Finance Department, Govt. of Odisha

10.3 Acknowledgements

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

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

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



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

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

Gajapati – 761211 Odisha, India Phone: (06815) 222999, (06815) 223088, Fax: (06815) 222150

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

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

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

Corporate Office: 17, Forest Park, Bhubaneswar, PIN – 751009, Dist: Khurda, Odisha, India.

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

www.cutm.ac.in